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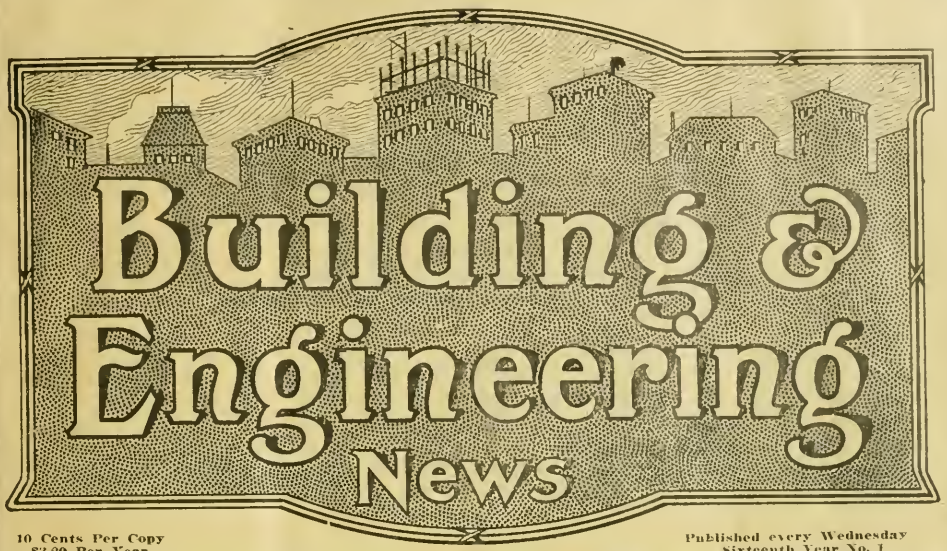

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Building & Engineering News

George Nelson, C. E., Editor.

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W. D. Manville, News Editor.

January 5, 1916

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New York City, N. Y.

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Staff Article

Fire-Resisting Properties of Structural Materials.

By U. S. Bureau of Standards

Report of the Bureau of Engineering State of California.

By C. A. Gillespie, C. E., Director and Chief Engineer

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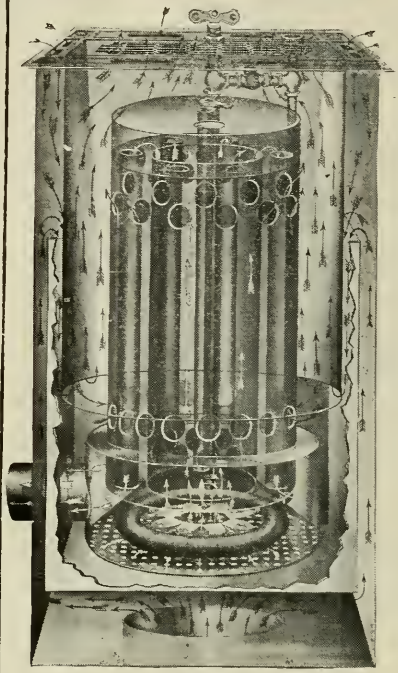

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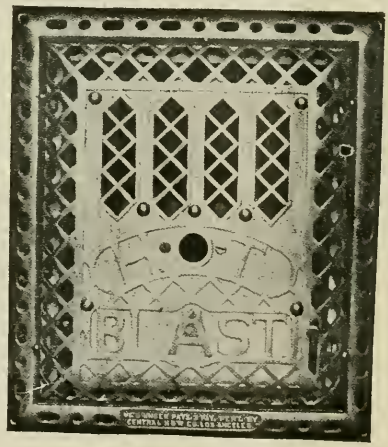

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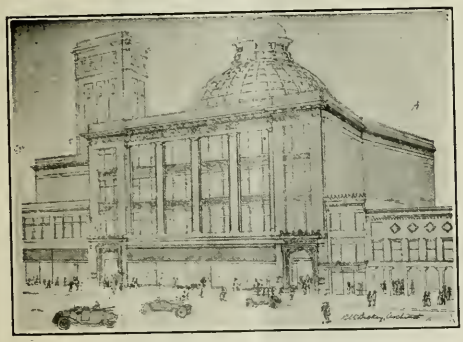

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Signals And Interlocking.

By Charles Hansel, Mem. Am. Soc. C. E., New York, N. Y.

The intricacies of Signaling and Interlocking call for a vast number of parts; and, perhaps, no other branch of railway operation requires the accuracy of design, construction, installation and maintenance as is required by the various forms, styles and installations of Block Signal, Power Interlocking and Manual Interlocking.

After the practicable development of the Automatic Block System as installed on steam-operated railroads, came the development of Track Circuit methods, which provided for the use of the track circuit: thus the automatic block. On electrically-operated railroads, without such development the large terminals and stretches of outlying track now operated electrically would still have to be operated by steam.

The installation and maintenance of the Rail Circuit on steam railroads is simple and inexpensive so long as the propulsion power of trains is the steam locomotive. The operation of trains by Electric Power by means of motor cars or motors requires the uninterrupted use of the rail for propulsion purposes; therefore, the problem of dividing the track into blocks—as is easily done where the motive power is self-contained and does not require a return current through the rails—at once becomes difficult, since it is necessary to employ two different currents using the same path; i. e., the rail or rails. The propulsion current must not be impeded, whereas the block signal rail circuit must be impeded so as to divide the track into blocks. Thus, while the impedance bond is necessary in order to cut off the block circuit, there must be **no impedance** offered to the propulsion circuit.

Since the majority of electric lines are operated on the direct-current principle, it was necessary to perfect a method of employing alternating current for signal track circuit where both track rails must be retained for propulsion purposes. To accomplish a rail circuit for block working on electric lines, impedance bonds are installed, for the same relative purpose as the ordinary insulated joints on steam-operated roads. These impedance bonds are now designed on simple and practical lines; although, when the subject was first broached to the electrical experts, it was not believed to be practicable by reason of the supposed necessity of design, which would provide an apparatus of such bulk and cost as to make it impracticable

The development of the A. C. Signal Track Circuit was accomplished primarily for the purpose of installing Automatic Block Signals on suburban electric railways; and the first reported notice of the satisfactory development of the A. C. Track Circuit appears in the notice to the stockholders of the Pneumatic Signal Company, November, 1902. At that time, the very important development of the New York Central Terminals at 42nd street, New York, and the Pennsylvania Terminals in New York City, as now planned and operated, had not been contemplated; and, indeed, it would not have been practicable to operate such terminals by electric propulsion without the use of the A. C. Track Circuit, or rather the principles used and developed by the A. C. Track Circuit, in association with the impedance bond. Thus, **the development of the A. C. Signal Track Circuit marks an epoch in safe and economic railway operation.**

Upper Quadrant Semaphore Signal.

As is well known, the art of signaling was first developed to a satisfactory stage in England, and the practices of English railways in respect to signaling and interlocking were generally adopted in the United States. As we look back upon the principles and the designs which govern the manufacture, installation and operation of the earlier signaling devices, we may well wonder why principles were adopted which now seem obviously incorrect and expensive.

The first semaphore signal indicated "safety" by the position of the arm below the horizontal. "Danger" was indicated by the horizontal position of the arm. In order to insure the signal arm going to the horizontal position in case of the breaking of connections between the operating power and the signal, it was necessary to counterweight the arm; and this counterweight must be sufficient to overcome, not only the weight of the arm itself, but also any accumulation of ice and snow. Since the weight of ice and snow accumulating on an arm is considerable, it follows that the counterweight necessary to insure the moving of the signal arm to the horizontal position is considerably greater than would be required if it were not necessary to provide for the conditions attendant upon ice and snow and weight of signal arm. With the excessive counter-weight necessary to insure the movement of the signal to "danger" in case a connection broke, the power necessary to clear the signal is unduly augmented.

It is obvious that, if the indication for a clear signal is given by moving the arm above the horizontal, the necessity for the counter-weight will disappear and any accumulation of ice or snow on the signal arm would tend toward safety by causing the signal arm to fall from the upper quadrant to the horizontal position, or below. Thus, if the indication of safety is given by moving the signal arm to a position above the horizontal rather than below, as was, and is, the English practice, we not only secure a safer signal, but we materially reduce the cost of operating same; especially when the signal is automatic and operated by mechanical power.

The Three Position Automatic Semaphore followed closely the perfection of the upper quadrant. While the indication above the horizontal for "clear" was not necessarily a part of the development of the Three Position Signal, the upper quadrant lends itself more satisfactorily to the Three Position, does not compel discipline nor opinion of many signal engineers, the development of the Three Position indication is a very important step in the advancement of railway signaling, it does not mark an epoch as clearly as does the development of the upper quadrant indication.

Automatic Train Control.

The development and installation of Automatic Semaphore Signal Systems, while providing a visual system of signaling almost perfect in its operation, dies not compel discipline nor provide against the failure of the trainmen to observe and act upon the indication of such semaphore signals. In the opinion of the writer, the next important development of the railway operation will be the perfecting of a suitable system of Automatic Train Control.

To appreciate the influences that guide the actions of a locomotive driver, one must study the conditions

*From a paper presented at the International Engineering Congress, San Francisco, 1915.

from the cab of the locomotive; and it is probable that, if more people were familiar with these conditions, there would not be such a desire for speed at the expense of safety. It is not likely that any argument of this character will change the temperament of a nation, and we must, therefore, view the conditions as they exist, and endeavor to guard against the involuntary or inexplicable acts of the locomotive driver, who, while possessing keen intelligence and a desire to do his duty to the public and his employer, occasionally fails for reasons that, in many cases, he cannot himself explain.

It is possible to provide for the automatic control of trains by means of apparatus beyond the reach of the locomotive driver, fixed at predetermined points on the permanent way to as to apply the air brakes in case the train attempts to pass where the signal is at "danger." Any such device should be considered in relation to the carrying of traffic safely without unnecessary interruption. No device should be encouraged which would tend to remove the responsibility from the locomotive driver of observing visual or other signals, and it should only become automatically operative when the locomotive driver becomes, as it were, "de-energized," physically or mentally, or both. He should retain the control of his train at all times so long as he is "energized" and fit mentally and physically to perform the function of his post. He should be able to pass a signal at "danger," provided, however, there is no obstruction in the block or section of track it governs; or, in case he has a permissive card authorizing him to proceed by signal under control; or whenever he knows a signal is at "danger" because it is out of order; and there may be other conditions which might make it necessary for him to pass a signal at "danger" in order to protect his train. He should be able to hold the apparatus from operating automatically; but, in case he does so hold the apparatus from operating, such act should be recorded, as to time and frequency, in such a manner as to make a secret record beyond his control.

It is entirely practicable to give all of these results without interfering with the proper and independent action of the locomotive driver so long as he is competent to act. Such devices may be so arranged in connection with the locomotive as not to inconvenience the driver, and still provide against the time when he may fail to do that which he ought to do. There is, of course a great diversity of opinion as to how far we should attempt to carry the automatic control of a train, and it may be that, in the opinion of some of the operating officials, it would only be necessary to automatically shut off the steam and give an audible signal in the cab; whereas, others might desire all of the functions above indicated. In any case, the automatic control should be used as an auxiliary to fixed signals and be governed by the condition of the block, in which case, it would protect the train against a false indication of the signal, which sometimes shows "clear" when it should be at "danger."

By using the automatic control system as an auxiliary in the manner described, the equipment of each locomotive and block increases the unit of safety; and, even though only one locomotive be so equipped, we shall have taken a permanent forward step which will insure the control of that train just as surely as if all the locomotives were fitted; and all additional locomotives so equipped would add to the percentage of protection. It is evidently not necessary to have a definite percentage of all the locomotives equipped before we can secure the benefit of the apparatus, as in the case of the air-brake system.

Assuming that a railway thoroughly equipped with a semaphore block system has also added the proposed system of automatic control: the locomotive driver, instead of feeling that he is relieved from the responsibility of observing the visual signals as closely as heretofore, finds that he must use greater vigilance, because a record is made of every time he passes a home signal at "danger"; and, with the knowledge that such record will be in the hands of his superior each day, he will certainly hesitate to sacrifice safety to speed.

The failure of the automatic control system is not by any means as serious as the failure of the visual system, because it is only an auxiliary; and, as the engineer has to depend upon the indication given him by the visual system to advance or stop, there is nothing in the automatic control which authorizes him to advance.

Many engineers have been opposed to automatic block signals for the reason that there is no record of the failure to observe signals, as in the case of the manually-operated signals; and, consequently, it is impossible to discipline the engineman. The automatic control of trains, with the apparatus making a secret and permanent record, would remove the objection to the automatic block system, and make it more complete and perfect than any other system now known.

The automatic control of trains will be found especially valuable when fog occurs, as it will provide an audible signal in the cab, and control the train as well. This will obviate the necessity of torpedo signals, as in England.

There are at the present time two systems which have been extensively tried and adopted to a limited extent in England. The first is the Western System; the second, the Raven System. The former was first tried on an extensive scale on the Great Western Railway. It was inspected by the Board of Trade, and other provisional sanction was obtained for it to be used for a period of six months as a substitute for the semaphore distant signal. As a result of this test, the Board of Trade gave their full sanction of the apparatus, and the distant signals were permanently removed.

Signal engineers and railway operating officials, generally, do not feel that the Cab Signal or Automatic Train Control should necessarily supplant the visual or roadside signal as now installed under the general term "Automatic Block Signals," but rather that these wayside signals should be supplemented by the Cab Signal and Automatic Control.

In railway signaling, there are recognized well-established protective rules, to which appeal is made when measuring the utility or capacity of a signal system for promoting safety.

In the gradual development of the art of signaling, the requirements have become exacting, and have resulted in placing the question of the "survival of the fittest" authoritatively upon a scientific basis.

The perfecting of a system of Cab Signaling and Automatic Control of Trains is a duty which should not be left to the unassisted efforts of the individual.

Governing powers have laid down rules and specifications for the ideal,—a goal for someone to achieve. This is not sufficient. The public interests demand that more speedy progress be made; and it seems reasonable to expect that the governing powers should join with the railroads, and offer such incentive as will stimulate practical work, and hasten the day when the traveling public will be more fully protected by the cab signal co-ordinated with the wayside signal and also the Automatic Control of Trains.

STATE CORPORATION DEPARTMENT

Commissioner of Corporations H. L. Carnahan has revoked the permit of Kellogg's Associated Pineapple Co., a Los Angeles corporation. The action was taken because of the fact that President Kellogg, who went to Guatemala ostensibly for the purpose of purchasing land for the shareholders, has not made a satisfactory report to the company of the expenditure of about $1400 sent him for investment and because he has written to the stockholders asking them to pay the unpaid balance of their subscriptions to him direct. At the same time the stockholders have been advised of the facts and the Commissioner has suggested that they make their payments direct to the company at its office in Los Angeles.

Arctic Cold Storage Co., San Francisco, is permitted to issue 12,500 shares to C. L. Hollis and E. R. Jamison, trustees, in exchange for real property at Richmond, to issue 4,000 shares to H. L. Hollis for services and 9,000 shares at par for money.

Indispensable Manufacturing Co., San Francisco, manufacturing a patent drop light, is permitted to sell 3,163 shares at par, $1 per share, to net the company not less than 90 per cent.

R. A. Hall Association, Los Angeles, is permitted to sell 5,000 shares at par, $1 per share, to build a hall to be the meeting place of the Royal Arcanum Society.

The city of Richmond, Contra Costa County, has filed a complaint with the Railroad Commission against the Atchison, Topeka and Santa Fe Railway Company. The complaint asks that the commission compel the railroad company to construct a new passenger and freight depot in the city of Richmond.

Railroad Commission News.

The Railroad Commission has issued an order directing the Pacific Gas and Electric Company to supply water for the irrigation of additional lands in the irrigable area in eastern Placer County. By this decision the barrier is removed to the growth of this section of the state, which, on account of the refusal by the Pacific company to permit expansion of the irrigable area, would seem to be stopped. The order of the commission was specifically on the complaint of William Paxton Montague and one hundred and eighty-seven other land owners in eastern Placer County, against the Pacific Gas and Electric Company. The complainants ask for irrigation on additional acreage in Placer County, and for a lower rate for water. While the land owners complain that the rate was unreasonable and that the flow of water was often obstructed by debris, the main issue in the case was the refusal of the Pacific Gas and Electric Company to spread out its irrigation system and permit the natural development of the agricultural possibilities of the country by its refusal.

What is generally known as the irrigable area of eastern Placer County lies between the Bear and the American Rivers, Colfax on the north, and Rocklin on the south. The irrigation of deciduous fruit lands in this territory started in 1880 when the canals and ditches of the predecessors of the Pacific Gas and Electric Company, used before almost exclusively for mining purposes, were adapted to irrigation. In 1914, nearly 18,000 acres were furnished water by the Pacific company, which supplied 2,697 miner's inches of water, besides 320 inches continuous flow for the use of cities and towns in the district, and 40 inches to the Southern Pacific ompany. Each irrigation inch covered about six acres of deciduous fruit, and the average increase from 1907 to date has been about 2½ miner's inches of water, or 1200 acres a year.

The several hundred complainants testified that there is a large area in eastern Placer County which desires water for deciduous fruit, alfalfa and clover, that many tracts of land have been bought and cleared in this expectation, and that if the Pacific company was permitted to carry out its announced policy of irrigating no additional lands until the additional waters stored by the company have passed through a proposed power house, agricultural progress would cease.

Investigation shows that 294 inches of additional water will be required in 1916 and 956 for 1917. Profitable irrigation, it was stated was available for 30,000 acres not now watered.

The complainants further said that the Pacific company has recently increased its impounding facilities so as to carry through its irrigating system, 11,000 inches of water over that heretofore carried, and that all this water could be used for agriculture. They point out that unless prevented by the commission, the Pacific Gas and Electric Company would take this quantity of additional water beyond the lands of the complainants for power purposes, and deprive them of their right to it. The Pacific Gas and Electric Company is about to install a large electrical power plant east of these lands, in which the water controlled by the company would be used to such an extent as to make it impossible for the company to continue to supply even the amount of water heretofore sold.

The company said that it had increased its impounding facilities by constructing a dam 225 feet high across the south Yuba River, at the foot of Lake Spaulding, enabling it to impound 38,000 acre feet of water, and making a total of 435,000 acre feet stored by the present dam. The company also said that it could impound in other lakes tributary to Lake Spaulding over 40,000 acre feet of water, and that it could not convey through its distributing system any more water for irrigation than that conveyed in 1914.

Besides the Lake Spaulding dam, the company has built what is known as the Drum canal, carrying water from Lake Spaulding to Drum Forebay, whence the water is diverted through the Drum power house. It has also enlarged the Bear River canal and commenced the construction of power house No. 4, near Clipper Gap and No. 5 near Auburn. A sixth power house was proposed near Newcastle.

The company said that it had never been willing and was not willing to use any part of the water required to operate power houses 4, 5 and 6 for irrigation and domestic purposes, until it had passed through the power houses. It avowed its intention to divert this water to irrigation and domestic uses after it has reached the level of the sixth plant.

The company cited orders of the Railroad Commission authorizing the company to go ahead with this work and to issue securities for that purpose, and said that by these orders the commission was barred from further action, that the company had never dedicated any portion of the additional water conserved by the Spaulding dam to the public use, and that it would be a confiscation of the company's property to force it to forego its own power development by turning the water over to the farmers.

The company asked the dismissal of the complaint, but said that if the commission established rates for irrigation water, as asked by the land owners, the company would re-arrange its water charges to the cities of Auburn, Rocklin, Lincoln and Roseville, the towns of Newcastle and Loomis, and to the Southern Pacific Company.

The case was heard in Auburn October, 1914, and February, and in San Francisco during a number of days in

The land owners quoted statements, oral and written, made by the Pacific Gas and Electric Company's representatives at various times to the people of eastern Placer County, signifying the intention of the company to supply from its additional storage water for these dry lands in eastern Placer County as well as in western Placer County.

People from Lincoln, Sheridan, Roseville and other sections of western Placer County suggested to the commission that there was a contest for the additional water impounded by the company between eastern and western Placer County, and urged the dismissal of the complaint, and permitting the company to take its entire additional water through its proposed power houses 4, 5 and 6, past the eastern Placer county lands, so that they might be used in western Placer County, where practically there has been no irrigation.

Commissioner Thelen, in his decision, says that there is no necessary conflict between the interests of eastern and western Placer County, that it has taken over 30 years to bring 17,466 acres under irrigation in the eastern part of the county, that an immense supply of additional water between ten and eleven thousand miner's inches will be impounded by the Pacific Gas and Electric Company when the Lake Spaulding dam reaches a height of 305 feet, that each inch irrigates over six acres, and a very large quantity of water being available after having passed through the fifth and sixth plants of the company, he felt convinced there would be water for both eastern and western Placer Count to care for the needs of the future.

Further, he said that the real conflict of interest is between the Pacific company wanting to use the entire additional water for power purposes, actual and proposed, and the people of eastern Placer County, who want only a relatively small portion of the additional water for their lands.

The commission found that justice lay between the extreme claims of both parties to the case.

Commissioner Thelen in his order says that it would be fair to the company to permit it to use the additional water impounded through its power houses, 1 to 5 inclusive, but that the construction of the sixth plant should be left in abeyance to be considered again in the future if the company concludes that such a plant would be economical, notwithstanding the use of water for more irrigation, as directed by the commission. The commission orders the company to hold itself in readiness to supply an additional 80 miner's inches for irrigation between Colfax and No. 4 power house; 600

inches between the contour of the fourth power house and the fifth, and any water that may be needed for irrigation below the fifth power house.

The Pacific Gas and Electric Company, after consultation with the commission agreed to waive its legal rights and to accept this plan.

On the matter of rates the order holds that the $45 miner's inch charge is reasonable. It has been in effect for many years, and under it eastern Placer County developed to its present condition. To supply additional acreage will cost the company a good deal of money for enlarging existing canals and ditches, and possible construction of new canals and ditches.

If after all the improvements have been made and the existing rates have had a fair trial, the eastern Placer County claimants again want to take up the question of rates, the commission says that a new complaint may be filed. Incidentally, the order directs the company to see that moss, twigs, fruit and other debris does not interfere with the flow of water to irrigate.

The Peoples Water Company of Oakland has filed with the Railroad Commission for its approval, its modified plan of reorganization. It is proposed to form a new corporation to be known as the East Bay Water Company, to take over the assets of the Peoples Water Company and refund its securities on the following plan:

To the owners of the underlying or divisional bonds, that is, the bonds of Contra Costa Water Company (first and general mortgages), Oakland Water Company, Alameda Artesian Water Company and East Shore Water Company, there will be issued first mortgage bonds of the new company equal in amount, par value, to the underlying bonds outstanding, or $5,600,000. The new first mortgage bonds will bear interest at the rate of 5½ per cent per annum, payable semi-annually, instead of 5 per cent, the interest rate on the outstanding underlying issues. These bonds will be dated as of January 1, 1916.

In addition, owners of underlying bonds will receive in cash at 5 per cent, the unpaid interest to the date of maturity, January 1, 1915, and 5½ per cent from January 1, 1915, to January 1, 1916.

There will be allotted to the holders of Peoples Water Company notes, which are secured by the pledge of some $6,000,000 of treasury bonds of that company, first mortgage bonds of the new company to an amount not to exceed $2,300,000 in exchange for the notes at par for par.

Until the date when bonds are ready for exchange, the company will continue to pay interest on these notes and the new bonds will be issued therefor without accrued interest.

Owners of Peoples Water Company bonds (general mortgage bonds) held in ownership, amounting to approximately $7,400,000, par value, will receive upon reorganization the following:

(a) First mortgage bonds of the new company amounting to $700,000 par value;

(b) Class A 6 per cent cumulative preferred stock to an amount equal to 50 per cent of the bonds outstanding and held in ownership; and

(c) Class B 6 per cent non-cumulative preferred stock to an amount equal to 50 per cent of the bonds outstanding and held in ownership.

Thus, each bondholder will receive the face amount of his bonds in 6 per cent preferred stock, half in Class A and half in Class B, and in addition thereto, his proportionate share of $700,000 of new first mortgage bonds in payment of the accrued and accruing interest on his bonds for the period between default and the date of exchange. Should the interest accrued and unpaid on Peoples Water Company bonds held in ownership exceed, at the time of transfer, this amount ($700,000), the excess will be provided for by an additional issue of preferred stock, of which half will be Class A and half Class B. In the event that the outstanding notes of Peoples Water Company amount to less or more than $2,300,000, the difference shall be added to or subtracted from the $700,000 of first mortgage bonds to be delivered to Peoples Water Company bondholders.

The plan further provides that all bonds held in pledge at November 1, 1915, to secure notes of Peoples Water Company, or notes assumed by it, and thereafter sold on foreclosure, will not be accepted by the reorganization committee for deposit. Pledges so foreclosed will not be represented by the committee, but will be under the necessity of protecting their position on foreclosure sale of the Peoples Water Company properties.

An additional and alternative plan for refunding of Peoples Water Company bonds is presented, providing for an issue of second mortgage 5 per cent non-cumulative income bonds in place of Class A 6 per cent cumulative preferred stock. It is proposed that the present preferred and common stockholders of Peoples Water Company shall receive six thousand shares of common stock to the East Bay Water Company par value of $100 per share in exchange for their preferred and common stock. It is further agreed that at any time prior to January 1, 1917, the properties of the Peoples Water Company may be acquired by the public at a price equal to the valuation for reorganization purposes fixed by the Railroad Commission, as of January 1, 1915, with certain modifications.

James S. Naismith has filed with the Railroad Commission a complaint against the Brookdale Land Company, the Mountain Light and Water Company, and the county of Santa Cruz, asking the commission to declare an agreement between the land company and Santa Cruz County concerning the use of waters in the San Lorenzo River to be null and void, and prohibiting the land company and the Mountain Light and Water Company from using any of the waters, except to supply the needs of residents, of irrigation and the generation of power. It asks that the power generated be limited to an excess supply above that needed to supply residents, and that the county of Santa Cruz be prohibited from using the creek waters for a fish hatchery, except waters already used for power making.

The Great Western Power Company has filed a supplemental application with the Railroad Commission in connection with the issue of $5,000,000 debentures recently authorized by the commission. The commission's previous order provided that the company should file a statement setting forth the purposes for which the company proposes to use the proceeds from the sale of these debentures. In the application just filed, the company sets forth these purposes as follows:

1. To acquire $4,998,000 par value of City Electric stock	$3,000,000
2. Transmission line from Big Bend to Oakland	1,500,000
3. Third cable across San Francisco Bay	150,000
4. Fourth cable across San Francisco Bay	100,000
Total	$4,750,000

The Western States Gas and Electric Company has filed with the Railroad Commission a supplemental application to its previous application for an order authorizing an issue of bonds of the face value $266,000 and notes of the face value of $33,000. The main application was filed on June 19, 1915, and was granted as asked. It is provided among other things that the company might sell bonds of the par value of $182,000, upon deposit with the trustee of the bond issue cash equal to the par value of the bonds, and that it might withdraw the cash from time to time as reports showing the expenditure of money for additions and betterments to the company's plant were approved by the commission. Already such expenditures aggregating $111,288.80 have been approved. For November, $20,523.57 has been spent, and an approval is asked for this amount.

The Railroad Commission has issued an order to the West San Joaquin Valley Water Company to extend its mains into the Wilson Re-Subdivision to Los Banos, Merced County, to meter 100 of the services heretofore paying the flat rate, and to establish rates for water in its territory under a schedule fixed by the commission.

The city of Los Banos complained to the commission against the services, quality of water, and other rules and regulations of the water company, and the company, answering the complaint, applied to the commission for a 50 per cent increase in its charges to consumers, saying that this was necessary to insure a reasonable return on its plant already installed, and 6 per cent additional increase in cases where filters were installed and extensions made in the subdivision asked for.

The flat rate fixed by the commission is $1.85 a month for residents, with $1.50 a month minimum for meter rates. The average flat rate heretofore has been $1.50.

Fire-Resisting Properties Of Structural Materials.

By U. S. Bureau of Standards, Washington, D. C.

The object of the investigations on the fire resisting properties of structural materials is to furnish to architects, construction engineers, builders, state and city building bureaus, insurance interests, and others, fundamental engineering data relating to the behavior and safety of various types of building material and construction when exposed to different conditions met with in fires.

The wide scope of these investigations requires the close co-operation of many of the laboratories of the Bureau. Thus at present the heat, weights and measures, electrical, concrete, ceramics, and structural materials laboratories are engaged on various phases of this work, such as the measurement of high temperatures, the design and construction of large furnaces for testing building panels and partitions, the fire tests of partitions built up of different structural materials, the determination of thermal conductivities and expansions of various structural materials, safety rules for electric wiring and problems appertaining to the national electrical code, etc., and the load carrying capacities of structural steel columns under exposure to fire conditions when unprotected, partially protected, and fully protected by fireproofing coverings of different materials applied in various thicknesses and in the various ways commonly used in building construction.

This work serves as an excellent illustration of the broad scope of an engineering investigation that requires the co-operation of a number of the scientific and engineering laboratories of the Bureau.

Fire Tests of Building Columns: Many millions of dollars are annually spent on the construction of buildings, the integrity of which, in the event of fire, is dependent on the behavior of the steel columns supporting the structures. Very little engineering data are available which would permit of any certain conclusions as to the thickness and kind of fire proof covering required to render these columns safe under various conditions of fire hazard.. The requirements of city building codes on these questions are so different that it is evident that some codes are either requiring an unnecessarily thick fire proof covering, with undue increase in construction costs, or else other codes are requiring too thin coverings, with undue increase in danger to the stability of the structure under the existing fire hazards.

The fire tests on building columns are being carried out jointly with the Underwriters' Laboratories of Chicago, the Mutual Laboratories of Boston, and the Bureau of Standards. In the first series of tests are included over 70 structural steel, reinforced concrete, and cast iron columns. The columns will be tested in a specially designed furnace now nearing completion in the Underwriters' Laboratories in Chicago. The columns to be tested are designed for a working load of 50 tons. Each column will be placed in the furnace, a constant follow-up load of 50 tons applied by a hydraulic machine, and the column heated until it fails. The temperature in the furnace and in various parts of the column will be measured by suitable thermocouples; and the amount of deformation produced in the column during the test will be measured by means of a suitable apparatus which has been especially designed for this purpose.

The steel columns are of various types commonly used in building construction, such as rolled H, plate and channel, latticed channel, etc. Some of the columns will be tested unprotected, some partially protected, and others fully protected. The protective coverings are concrete, plaster on metal lath, clay tile, and gypsum tile. The protective coverings will be made from representative materials obtained from different parts of the United States.

Much of the necessary preliminary work of this large program of column tests has been done. It is expected that the protective coatings will be applied during the coming winter and that the actual fire tests will begin in the summer of 1916.

Thermal Efficiencies of Column Coverings: Tests are under way at the Pittsburgh laboratories of the Bureau on the rate of temperature rise within cylindrical specimens of the various materials used for fireproofing building columns, with a view of supplementing and checking the results of the column tests. A special gas heating furnace has been built for this work and a large number of cylinders of different materials have been prepared with suitable provision for inserting thermocouples axially, with their junctions at different distances from the heated cylindrical surface. Cylinders similar to the cylinder under test are placed at each end of the latter, in contact with its end faces, to minimize the disturbing effects of heat losses from the ends.

Strength of Steel at High Temperatures: As a preliminary to the tests of the building columns, some tests were made upon steel tubes (1¼ inches in diameter, 18 inches long, and ⅛ inch wall thickness) to determine the relation between the load they will support and the temperature to which they are heated. The ultimate compressive strength was measured by mounting the tubes in a testing machine, the tubes being heated quite uniformly by a suitably spaced electric heating coil wound over the outside and loss of heat from the ends being reduced to a minimum by asbestos disks. The temperature was measured by a thermocouple within the tube extending some distance beyond the center and then doubled back on itself to minimize the effects of conduction to the cooler ends. The behavior of such a tube may be expected to simulate closely that of a steel column. The tests were made primarily to obtain information as to what is to be expected in the much more elaborate tests of actual columns, and to serve as a guide in the design of the apparatus for those tests, especially the apparatus for measuring the temperature of the columns. The results of these preliminary experiments, which are of some immediate practical significance, were as follows:

Temperature Degs. C.	Total Ultimate Comp. Strength Lbs.
20	18,750
635	9,430
655	5,710
720	2,150
815	2,680

These experiments seem to show that the protective covering on a steel column, to be effective in a fire, must prevent the steel from reaching a temperature in excess of about 628 degrees C. (1150 degrees F.)

More elaborate tests on small building columns are to be made in a special furnace built for such tests at the Pittsburgh laboratories of the Bureau.

Thermal Expansion of Structural Materials: The Division of Weights and Measures has completed the degirders of known composition and elastric furnace which provides facilities for the determination of co-efficients of expansion in the temperature range from that of liquid air (about 190 degrees C.) up to about 700 degrees C. The construction of these rather elaborate pieces of apparatus has been completed in the instrument shops of the Bureau and will be applied, as time permits, to the determination of the co-efficients of expansion of structural steels, the samples to be tested being taken from different parts of the sections of large building columns and girders of known composition anl elactic properties.

Panel Testing Furnace: During the latter part of the past fiscal year the erection of a panel testing furnace was begun, which will afford the best modern facilities for testing the fire-resisting properties of building partitions, the test panel being 12x16 feet in area. The equipment provided consists of an oil burning furnace, with necessary boiler, blower, oil tank, etc., 5 massive structural steel frames into which the test panels are built, suitable trolleys, crane, structural steel panel rack, etc., to enable the built-in panels to be moved into position before the furnace, fire pump for applying the hose stream from an 1¼ inch nozzle on the heated partition under test, to simulate fire conditions, etc. This plant when fully equipped with 7 additional panel frames, will cost about $15,000 and will be the most complete of its kind at present available. It is expected that fire tests can be started

early in the coming winter. Steps will be taken to formulate a comprehensive program of fire tests of various building materials after consultation with representatives of the various engineering and technical societies and manufacturing associations interested in the manufacture and use of these materials.

Building Codes: The engineering data resulting from investigations such as those above referred to must serve as the foundation upon which building codes must be constructed. Some progress has been made during the year in compiling the municipal building codes, not alone with a view to furnishing information to state and city building bureaus and to others interested along these lines, but with a view to a comparative study of existing codes to assist in planning a systematic program of investigations to definitely answer the many important questions about which there are still great differences of opinion.

Thermal Conductivities of Insulation and Building Materials: This work has been undertaken at the request of the railway companies, in connection with insulation requirements of steel passenger car construction, and the railway mail division of the Post Office Department, in connection with insulation specifications for steel postal cars; the manufacturers of building insulation materials, steam and brine pipe coverings, etc.; the furnace construction industry; and the furniture construction and refrigeration industries, in connection with the construction of cold rooms and refrigerators. Thermal conductivity data are also of importance in connection with building construction in its bearing on the heating of buildings, the resistance of walls, floors, etc., to the flow of heat and transmission of fires, the effectiveness of fireproof coverings of columns, girders, etc.

Notwithstanding the fact that thousands of thermal conductivity measurements have been made in many different laboratories, the results are extremely unsatisfactory, showing wide discrepancies. The need of standardization is obvious but the problem presents unusual difficulties and the progress of the investigation is necessarily slow.

A piece of trial appartus, taking samples in the form of slabs about 8 inches square, has been in satisfactory service for some months, and a similar apparatus for much larger samples has been constructed and used to some extent. Preliminary reports of the work have been submitted for criticism and consultation to the manufacturers who furnished samples. Especial attention is being given to the investigation of the factors which determine the insulating properties of an air space, such as thickness of air layer, distance between baffle plates to break convection streams, etc. A proper understanding of these factors will have an important bearing on the cellular wall construction of cold rooms, refrigerator cars, and car insulation in general.

Some time has been given to the design of an apparatus adapted to the determination of the thermal conductivities of materials up to temperatures corresponding to red heat, as well as at ordinary temperatures.

REPORT OF BUREAU OF SANITARY ENGINEERING, NOVEMBER, 1915.

C. G. Gillespie, C. E., Director and Chief Engineer.

As announced in the October Bulletin, this Bureau will henceforth handle all the work of bacteriological analyses of water heretofore done by the State Hygienic Laboratory. The laboratory of this Bureau will make also chemical analyses of water, both sanitary and mineral.

For the first time in this State a comprehensive collection of data on character of its sewages and behavior of sewage disposal works will be undertaken as vigorously as present available laboratory facilities and funds will allow.

Samples will be analyzed gratis on the same basis and conditions as maintained in the past by the Hygienic Laboratory.

Notable diminution in the number of complaints from poorly operated sewage disposal works is to be observed on the approach of cooler weather. It is hoped that before another summer returns changes will be made to prevent the reappearance of local nuisance and stench.

It may be of interest to sanitary engineers and city officials to know that the first Reinsch-Wurl* screen to be installed in the State has passed the tuning-up period and is now screening the entire sewage of Long Beach. The behavior of this type of sewage clarifier will be watched with interest by sanitary engineers and sewage disposal men. Its function, like that of tankage treatment, is purely to effect preliminary clarification; there is no significant removal of bacteria. The slots are one thirty-second of an inch wide, and, based on experience elsewhere, they do not remove as much suspended matter as do tanks.

The final choice of a screen of this type in preference to tankage will depend almost entirely on aesthetics and local factors. Where land values are high or excavation for tanks is excessive or where it is necessary to build the treatment works within built-up sections and where mere clarification followed by disinfection will be sufficient treatment, an installation of this type is to be considered.

Another interesting screen, approved by this Board, is being constructed in the new pumping station of the city of Sacramento. Its purpose will be the removal of floating sewage solids, prior to discharge of the sewage into the Sacramento River. Its construction is of the harp type, using one-quarter inch rods spaced three-quarter inch centers. To effect easy removal of the large accumulation of screenings, rakes automatically comb the screens continuously, elevating the screenings to cars overhead.

The Santa Fe Railroad Company this month made an emergency installation for the application of hypochlorite to disinfect the sewage of the shops at Calwa prior to injection into deep wells, pending the preparation of plans and construction of works for more complete treatment. The emergency works were constructed within two days of approval of the plans by this Bureau. A salt test had shown that the sewage injected into the wells appeared at the well supplying Calwa City five days later and had passed through 900 feet of fairly dense strata. This is a striking example of how little protection is afforded by travel of water through soil.

Rendering advice on miscellaneous sanitary matters, where a great amount of field work was not necessary, has been continued as follows:

Sewage Disosal.

Beverly Hills. With the increase of population along the banks of the wash in which the septic tank effluent runs, with resultant nuisances, it has become necessary to plan a final oxidizing treatment. Sprinkling filters have been advised by this Bureau to meet the requirements.

Universal City. The development of a stupendous moving picture enterrise on the banks of the Los Angeles River has presented a large sewage problem. Gross carelessness on the part of the management in failing to prevent the overflow of cesspools has more than once endangered the river. On account of the shiftless class of employees here available for the operation of any high grade sewage works, this Bureau has preferred to recommend the cesspool method of disposal with enough cesspools to prevent overflow.

Hyperion. Plans to clarify the sewage in Imhoff tanks and to carry the effluent some nine hundred feet farther into the ocean before discharge, are proposed by the city of Los Angeles to prevent offense to the beach towns on Santa Monica Bay. Efforts are being made to insure an election for the issue of bonds for the purpose.

Miscellaneous. Imhoff tanks at Fullerton, Anaheim and Orange were inspected. The plant at Anaheim is extremely well operated, considering the handicap due to roofing it over. The other plants are delivering a well clarified effluent which, however, later receives patches of leathery scum growing on the sides of the channels, which break loose occasionally. More attention to this small detail is needed. The city of Los Angeles has recently completed a twostory septic tank at Wilmington. It is now being filled with fresh water prior to being placed in operation.

Water.

During the last week of October, eighteen bacteriological analyses of water were made.

The Western Water Company, engaged in the distribution of water for domestic and industrial purposes in the Midway Oil fields of Kern County, has filed a complaint with the Railroad Commission against the State Consolidated Oil Company. The Western Water Company alleges that the oil company is distributing water in the oil fields without having applied to the Railroad Commission for a certificate of public convenience and necessity and without having filed its tariffs as required by law.

WATER COMMISSION NEWS.

Bridget Graham of Colusa has made application to the State Water Commission for a permit to appropriate 31 second feet of the waters of Sacramento River at a point in the NW¼ of the NW¼ of Sec. 5, Tp. 16 N., R. 1 W., M. D. M. A 100 H. P. motor, connected to a 20-inch centrifugal pump, a 30-inch steel pipe to the river, with a system of ditches, furnishes the method of diversion. The plant is intended to irrigate 1100 acres, and the estimated cost is $5,500. The witnesses are Oswald Putnam and H. R. Putnam of Colusa. (190).

Camuel P. Hale of San Jose has made application to the State Water Commission for a permit to appropriate 40 second feet of water from Jackson and Hale Creeks, in Fresno County in sections 34 and 35, Tp. 16 S., R. 13 E., M. D. M. His dam of earth and concrete is estimated to cost $1,-000. The system is designed to water 345 acres. (191).

Edwin Bemis of Victorville has applied to the State Water Commission for a permit to appropriate 40 miner's inches of water from three springs on the border of Los Angeles and San Bernardino Counties in Sec. 31, Tp. 4 N., R. 7 W., and Secs. 36 and 25 in Tp. 4 N., R. 8 W., S. B. M. A diversion dam is made of rock and brush and the water is led into a ditch two and one-half miles long to the land. Estimated cost, $500. Witnesses W. B. and Martha E. Birge. (192).

James Poindexter and John L. Davis have applied to the State Water Commission asking for a permit to appropriate 120 acre feet of water from Dry Ravine, tributary to Goose Lake, Modoc County. Their storage dam will be of earth and cost about $200. A ditch a mile and a half long will convey the water to the land. A. M. Green and F. M. Smith of Alturas are witnesses. The applicants are residents of Davis Creek. (194).

Mary J. Abbott of San Mateo has made application to the State Water Commission for permission to appropriate four second feet of water from Long or Mud Spring Canyon and Love Spring Canyon in Lassen County, being in Secs. 22 and 23, Tp. 34 N., R. 15 E., M. D. M. A ditch a mile and a half long will convey the water to 240 acres to be irrigated. Estimated cost, $300. Witnesses, R. M. Rankin of Susanville and W. A. Dill of DeWitt. (195).

H. H. Gable of Esparto, Yolo County, has applied to the State Water Commission for permission to use the waters of Oat Creek, a tributary of the Colusa Basin, to the extent of 80 miner's inches. There is no main canal, the water to be stored in a reservoir until there is enough for a day's run for an eight-inch pump, which will throw it into the distributing ditches. The dam will be of reinforced concrete, with 54 square feet of openings to discharge the flood flow. The estimated cost is $1600, and there are 160 acres to be irrigated. (198).

Fayette C. Lamb of Los Angeles has asked permission of the State Water Commission for the appropriation of 10 second feet of waters from Arkansas and Hunt Canyons, tributary to San Felipe Creek in San Diego County, in Sec. 22, Tp. 12 S., R. 4 E., S. B. M. Water is to be used for agriculture. J. P. Taggart and J. H. Bennett of Los Angeles are witnesses. (199).

Manuel Garnier and Fred Osborn of Dayle, Lassen Co., have applied to the State Water Commission for permission to appropriate for pruposes of irrigation 25 second feet of the waters of Long Valley Creek. The estimated cost of diverting the water to 400 acres to be irrigated is $3,000. The witnesses are W. H. Eve and A. Milberg, the former being of Doyle and the latted of Calneva. (202).

Jesse Richardson of Taft has applied to the State Water Commission for a permit to appropriate water from a small spring in Santa Barbara, for agrucultural purposes. It is located in Sec. 25, Tp. 10 N., R. 28 W., S.B.M. (212)

M. D. Graham of Wakefield has applied to the State Water Commission to appropriate 120 miner's inches of water from Growler Creek in Del Norte County for purposes of mining. (205).

The State Water Commission has issued a permit to Sydney Dale of Hopland, Mendocino County, to use one and one-half miner's inches from springs In Lake County, located in the NE¼ of SW½ of Sec. 27, Tp. 14 N., R. 11 W., M. D. M., for the purpose of irrigating 40 acres. (Permit No. 49).

CALIFORNIA STATE MINING BUREAU

F. McN Hamilton, State Mineralogist.

Mining Reports Issued.

The State Mining Bureau, under the direction of Fletcher Hamilton, State Mineralogist, is preparing a new, general report on all of the mineral resources of California. Instead of delaying publication until the entire area of the State has been covered, the reports are being issued in advance chapters, by groups of adjacent counties, as soon as completed by the field men. Competent geologists and mining engineers are engaged in the field gathering data, and it is expected in the next few months to complete this survey of the whole State. All mines, quarries, mineral springs, cement mills and other plants handling mineral products are listed and described, including location, equipment, extent of development, geological conditions, etc. The reports are well illustrated with photographs and drawings, and contain also tables of the mineral yield of the several counties, showing a wide diversity of products.

The following chapters have just been received from the printer, and are now ready for distribution at the prices indicated, which include postage. They may be obtained from the main office of the State Hining Bureau, Ferry Building, San Francisco, or the Southern California branch office, at Room 108, Union League Building, Los Angeles.

The chapter on Amador, Calaveras and Tuolumne counties covers the central portion of the Mother Lode Gold Belt. This district is one of the oldest, and is still the most important quartz gold mining section of the State. The report contains 180 pages and the price is 50c, postpaid.

The chapter on the "north of the Bay" group covers the counties of Colusa, Glenn, Lake, Marin, Napa, Solano, Sonoma and Yolo. This district contains a greater number and variety of mineral springs than any other similar area in the United States. It has also been an important producer of quicksilver, and is notable for its yield of cement, crushed rock and other building materials. The report contains 208 pages and the price of 50c, postpaid.

The chapter on Del Norte, Humboldt and Mendocino counties covers the three northernmost coast counties. There are important mineral resources in this area, most of them as yet undeveloped owing to lack of transportation facilities. The completion of the Northwestern Pacific Railroad to Eureka, and the line now reported under construction from Grant's Pass, Oregon, to Crescent City, will result in increased development of all industries in this district. It is also one of the most important lumbering sections of the State. The report is of sixty pages, and the price is 25c, postpaiw.

The chapter on the San Joaquin Valley district covers the counties of Fresno, Kern, Kings, Madera, Mariposa, Merced, San Joaquin and Stanislaus. While this is one of the most important agricultural sections of California, it has also large and valuable mineral resources, including the Kern County and Coalinga oil fields, and the famous Raymond granite quarries. The report covers 220 pages, the price of which is 50c, postpaid.

The chapter on Shasta, Siskiyou and Trinity counties covers an area in which is located the State's largest copper and silver producing area, also the largest yielding hydraulic gold mines of the present day. The western part of this area in particular has great possibilities from a mineral standpoint, but as yet only slightly developed on account of meager transportation facilities. The report is of 192 pages, the price being 50c, postpaid.

The Valley Natural Gas Company, Bakersfield, Kern County, has filed an application with the Railroad Commission, requesting authority to issue 300 shares of common stock at 80, and 400 shares of preferred stock at 90. The company desires to use the proceeds from the sale of common stock in defraying the cost of engineering, legal services and organization expenses. It is proposed to use the proceeds from the sale of preferred stock in building a transmission line 25 miles in length with laterals aggregating 12 miles in length along the public roads of Kern County in the neighborhood of Wasco and Rosedale. This transmission line, with laterals, meters and regulators is estimated to cost $84,180.

The Valley Natural Gas Company, having its office in Bakersfield, Kern County, has filed an application with the Railroad Commission for certificate of public convenience and necessity to sell gas for light, heat and power in the territory about Rosedale and Wasco, Kern County.

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Weekly luncheons in College Room, Hoffbrau Cafe, Wednesdays at 12:30. Engineers welcome; informal; no program.

Regular meetings are held bimonthly at such time and place as may be appointed by the board of directors. The established custom is to meet on the third Fridays of February, April, June, August, October and December.

Address E. T. Thurston, Secretary, 813 Mechanics' Institute Bldg., 57 Post street, San Francisco.

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Regular meetings third Tuesday in each month. Address all communications to R. H. Manahan, care City Hall, Los Angeles.

CHAMBER OF MINES AND OIL.

Los Angeles, Cal., Third Floor Germain Building, 224 South Spring St.

The annual election of officers and directors of the Chamber of Mines and Oil, which was held at the headquarters of the chamber December 16th, roused considerable interest among the membership, probably due to the prevailing unhappy condition of the oil industry of the state, and also to the revival and awakened interest in the mining industry. A large number of ballots were cast; the list of nominees submitted by the nominating committee being elected without opposition.

Theodore Martin, the newly elected president of the chamber, is well qualified to serve in that capacity. Mr. Martin has long been identified with the mining and oil industries, having made a specialty in his law practice of mining, oil and public land laws. He is well known as the author of "Martin's Mining Law and Land Office Procedure." He has practiced in Los Angeles since 1895, and has been closely connected, as an attorney, with the development of the oil industry in this state. His mining practice in Colorado, and since coming here, has been extensive, and he is recognized as an authority on mining law. He owns one of the most extensive private law libraries in the state, housed at his office, 918 Security Building. Besides having practically all the authorities on mining and public land laws, he also has an extensive collection of the mining laws of foreign countries.

Thos. Thorkildsen, elected as first vice-president, controls the Sterling Borax Company, operating the only borax mine—in fact, the only mine of importance, in Los Angeles County. In addition, he controls mining properties in Arizona and Nevada, and has been identified with the mining industry for the past twenty years.

Dr. Norman Bridge, second vice-president, is too well known in California for comment. He is secretary of the California Petroleum Corporation, and treasurer of the Mexican Petroleum Company, Limited, and has served on the board of directors of the chamber for several years. He is also a director of the Chamber of Commerce and of the Southwestern Museum.

Warren C. Kennedy retires as president, having served two consecutive terms, and has been elected treasurer of the organization. Mr. Kennedy has taken a keen interest in the work of the chamber, and while interested in mining in a minor way only, has had a great deal to do with the mining machinery business on the Pacific Coast. The chamber's standing in the community and its financial status have been materially improved during Mr. Kennedy's presidency, and his continued association with the chamber cannot help but be of profit and value.

The other directors elected, with the committees on which the will serve, are as follows:

J. O. Roer, capitalist, Building and Finance; S. F. Forbes, manager, Fairbanks, Morse & Co., Commercial and Mercantile Affairs; Edgar Baruch, chemical and consulting engineer, Commercial and Non-Metallic Minerals; Alvin B. Carpenter, mining engineer, Engineering and Geology; Edward G. Judah, manager, Paraffine Paint Company, General Business Relations; Engene H. Law, manager, Harròn, Rickard & McCone, Library and Publicity; Samuel E. Yount, mining, Membership and Entertainment; J. Nelson Nevius, mining engineer and geologist, Mining and Oil Exhibits; Seeley W. Mudd, mining engineer, Mining Industry; Chas. B. Barnes, vice-president, California National Supply Co., Petroleum Industry; Thos. A. O'Donnell, field superintendent, California Petroleum Corporation, Petroleum Legislation; L. P. St. Clair, president, Independent Oil Producers Agency, Petroleum Refining and Marketing; C. Colcock Jones, consulting and metallurgical engineer, promotions and Investigations; D. F. McGarry, McGarry Realty Company, Public Lands; H. P. Anewalt, general freight agent, A. T. & S. F. Railroad, Transportation.

INDUCTIVE INTERFERENCE.

The Railroad Commission has issued an order dismissing the various complaints of the Pacific Telephone and Telegraph Company against the Coast Counties Gas and Electric Company, Great Western Power Company, and Sierra and San Francisco Power Company in the so-called "induction cases."

These cases were originally filed in 1912. It was alleged by the telephone company that at certain points in the vicinity of Napa, San Jose and Gilroy, the proximity of power lines to telephone lines, made telephone communication impossible besides creating a hazard of fire and electrical shock.

Realizing the importance of the technical problems involved, the commission asked the telephone company and the power companies to lay aside their differences and co-operate with the commission in arriving at a solution. A joint committee on inductive interference was formed, composed of the engineers of the principal power, telephone and railway companies of the state, and representatives from the engineering department of the commission. After an exhaustive investigation this committee published a report covering several hundred pages of typewritten matter. The principal remedy therein determined upon is technically known as "transposition." Generally speaking it consists in changing the relative positions of the wires at certain determinable intervals. Based upon the findings of the committee the commission issued a general order to the electrical companies providing every reasonable effort should be made to avoid the building of parallel lines and that when such lines existed, or were found necessary they should be constructed in a manner to minimize as far as possible the dangers and annoyances resulting from inductive interference.

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U. S. RAILWAYS PAY 10 MILLION FOR ADS.

CHICAGO.—Railroads of the United States demonstrated their faith in newspaper advertising by expending $10,000,000 for newspaper space during the last fiscal year, according to an address before the Chicago Advertising Association by Gerrit Fort, general passenger agent of the Union Pacific.

Fort added that honest advertising was the only kind that pays in the long run.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 5 story and base, reinforced concrete, $45,000. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, C. A. Meussdorffer. Location, east Jones north of Sutter, covering an area of 80 by 62 feet. Will contain a number of large apartments. Interior finish pine, hardwood and white enamel with hardwood floors, wall beds and private bath rooms. Steam heat, automatic elevator and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster in imitation of cut stone. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $10,000. Architect, none. Owners, Collins Bros., 825 57th street, Oakland. Location, East Oakland. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and redwood. Some hardwood floors. Central heating system and hot water system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Apartment house, 6 story and base, brick and steel, $90,000. Architect, H. H. Keys, Central Bank Bldg., Oakland. Owner's name withheld. Will contain 41 suites of two, three and four rooms. Interior finish pine and hardwood with hardwood floors. Steam heat, automatic elevator, hot water system and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Preliminary plans only prepared. Further mention of the work.

EUREKA, HUMBOLDT CO., CAL.—Apartment house, 3 story and base, reinforced concrete, $50,000. Architect, Frank T. Georgeson, Eureka. Owner, G. B. Georgeson, Eureka. Location, southwest corner of 5th and K streets. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior finish pine and redwood with some hardwood floors. Steam heat, hot water system and vacuum cleaning. Bath rooms tile wainscot and composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans being prepared.

LOS ANGELES, CAL. — Apartment house, 4 and 6 story and base, reinforced concrete, $100,000. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, T. N. Jamison. Location, Euclid avenue near Colorado, covering an area of 75 by 150 feet. First floor will contain stores. Upper floors arranged for two and three room apartments with wall beds and private baths. Interior finish pine and hardwood veneer with some hardwood floors. Steam heat, automatic elevator, hot water system and vacuum cleaning. Bath rooms finished in tile. Marble and tile wainscot in the entrance vestibule. Exterior faced with cement plaster. Plans being prepared.

BONDS

SACRAMENTO, CAL.—The sale of the last $1,500,000 of the highway bonds of the $18,000,000 issue voted in 1910, will be held January 27th by the State Treasurer. These bonds bear 4 per cent interest.

BAKERSFIELD, KERN CO., CAL.—Bonds in the sum of $75,000 were voted at the election December 14th, for the construction of two modern four-room school buildings, one in the Central Kruse district between the east side and the central part of the city, and the other in the Lowell Addition. Work will commence about the first of the year.

OLYMPIA, WASH.—The State Capitol Commission will receive bids until January 18th for $1,500,000 issue of Capitol building bonds. This will give $300,000 for completing the unfinished Temple of Justice building, and it is later expected to sell $1,500,000 more bonds to erect a new state house building.

YREKA, SISKIYOU CO., CAL.—Congressman Raker has introduced a bill providing for the erection of a public building in this city to cost about $50,000.

FLAGSTAFF, ARIZ.—The Coconino County Supervisors have decided to call an election next spring for the purpose of voting bonds of $350,000 for a system of good roads.

LOYALTON, SIERRA CO., CAL.—The $5,000 bond issue for the completion of the construction of an electric lighting system and power plant carried at an election held recently.

GALT, SACRAMENTO CO., CAL.—The Supervisors have adopted a resolution forming an irrigation district at Carmichael Colony Tract. The election will occur on January 25th, at which time property owners can vote for or against establishing the irrigation district.

OCEAN BEACH, SAN DIEGO CO., CAL.—The election to form a municipal improvement district to issue bonds for protection work on the waterfront, carried on December 17th. The proposed improvements include a jetty 800 feet long at the foot of Narragansett avenue to cost $35,000; a jetty 2200 feet long at the entrance to False Bay, to cost $18,000; two short breakwaters on groins between the jetties, to cost $1,500; a concrete pleasure and fisbing pier 20 feet wide and 800 feet long near the foot of Narragansett avenue to cost $28,000; stone steps and sidewalks leading from the shore end of this pier to the comfort station to cost $4,000; and other miscellaneous expenses bring the total cost of the improvements up to $125,000.

SANTA CLARA, SANTA CLARA CO., CAL.—The special election held to vote bonds on the completion of the state highway through Santa Clara and for the paving of Homestead road from the town limits carried. The vote was as follows:

Proposition 1—Shall the town of Santa Clara incur a bonded debt of $27,000 for the improvement of the San Francisco road, Lincoln street, Franklin street, Grant street and the Alameda Yes, 498; no, 117.

Proposition 2—Shall the town of Santa Clara incur a bonded debt of $18,000 for the improvement of Lincoln street, Lexington street and the Homestead road? Yes, 426; no, 161.

FAIRFIELD, SOLANO CO., CAL.—At a recent meeting of the Town Board, the committee appointed to investigate and report on the advisability and cost of fixing the streets, reported favorably on the proposed improvements and presented plans and specifications computed by E. N. Eager, surveyor, whereby the streets could be improved at a cost of $47,000.

Town Attorney Beryl L. Gregg was instructed to draw up the necessary resolutions to be adopted by the Board calling for an election on the bond issue.

If the issue carries, the streets will be constructed of oil macadam, twenty feet wide with six-inch macadam in the center, tapering to two inches on the edge.

BAKERSFIELD, KERN CO., CAL.—Bids will be received by the Board of Supervisors up to 10 a. m. of January 6, 1916, for the purchase of sixty bonds of the Conley High School District issue. Certified check or cash for 10 per cent is required.

BRIDGES, DAMS AND HARBOR WORK

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and concrete, $90,000. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California and Humboldt County. County Auditor Carr, who returned from Sacramento a few days ago, states that he consulted the Highway Commission relative to the proposed highway bridge across Eel River ner Spy Rock. As a result of his talk with the commission the state has practically agreed to furnish the plans and specifications for the bridge and contribute $40,000 of the estimated $90,000 that it will cost, the county to furnish the remainder of the money. The proposition is to be submitted to the Board of Supervisors. Further mention will be made of this work when action is taken by the County Supervisors.

MODESTO, STANISLAUS CO., CAL.—Bridge and two siphons, reinforced concrete. Cost not stated. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Bids will be received until January 11th for the construction of a reinforced concrete bridge over the San Joaquin and Kings River Irrigation Company's canal about 0.3 of a mile northeast of the town of Crows Landing, and for two inverted siphons at stations 20 plus 00 and 31 plus 78.5 of highway survey in the County of Stanislaus.

LOS ANGELES, CAL.—Reinforcing steel. Cost not stated. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Bids will be received b the Department of Public Service up to 4 p. m. of January 11, 1916, for furnishing the city with approximately 500 tons of reinforcing steel for use in the construction of tunnels, etc., in the San Francisquito Canyon, in accordance with specifications No. P-55, which may be obtained at the office of the secretary, 506 Knickerbocker Bldg. Bids will be received for a price f. o. b. factory.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, 9, steel and reinforced concrete. Cost not stated. Engineers, Count Surveyor Johnston and Mayberry & Parker. Owners, Santa Barbara County. Sketches of nine bridges that are being designed by Engineer Fred Johnston, State street, Santa Barbara, and E. L. Mayberry, of Mayberry & Parker, engineers of Los Angeles, who are associates in the work with Johnston, are now in the hands of the State Highway Commission for approval. The construction of these bridges will practically complete the construction of the state highway through Santa Barbara County. Plans are also under way in the same offices for the construction of the Quemada bridge which is to be built over the Quemada stream, about 25 miles north of Santa Barbara. The bridge was estimated by the engineer to cost $50,000. The Quemada bridge will have two 100-foot spans and approaches, making the total length of the bridge about 400 feet. The plans for the Sheep Camp bridge are now about complete and will be forwarded to the State Highway Commission in one week. Bids for the construction of these bridges will be called for on the approval of the plans.

SAN BERNARDINO CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, San Bernardino. Owners, San Bernardino County. Bids will be received by the Board of Supervisors up to 11 a. m. of January 17th for the construction of a steel bridge and concrete substructure (bids to be in one lump sum on substructure complete, including excavation, and separate bid in one lump sum for superstructure complete), known as Barton avenue bridge over San Timeteo creek, near Redlands Junction in the Fifth Supervisorial District. Certified check for 10 per cent must accompany each bid. L. R. Patty is the County Clerk.

GREEN POINT, MARIN CO., CAL.—Bridge, steel and concrete, $89,791. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California and Marin and Sonoma Counties. The low bid for the construction of this work was presented to the State Highway Commission on December 27th by Healy-Tibbitts Construction Co., 9 Main street, S. F., at $89,791. A contract has not been awarded. A complete list of the figures received will be found under the heading of Sacramento in this issue.

CHURCHES

SAN FRANCISCO—Church, 1 story and base, brick and steel, $60,000. Architect, William H. Crim, Jr., 125 Kearny street, S. F. Owners, Second Church of Christ, Scientist. Location, southeast Cumberland and Dolores streets, covering an area of 80 by 130 feet. Interior will contain main auditorium, Sunday school rooms, reading rooms and study. Finish pine and hardwood with some ornamental plaster. Steam heat and modern ventilating. Art glass windows. Exterior faced with pressed brick. Plans complete and figures in for the steel and concrete work. Balance of work to be figured shortly.

SEATTLE, WAS.—Church, 1 story and base, reinforced concrete, $75,000. Architect, George Foote Dunham, Lumbermen's Bldg., Portland. Owners, Fourth Church of Christ, Scientist. Location, corner of 7th and Seneca streets. Will contain main auditorium, reading rooms, study and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass windows. Steam heat. Exterior faced with cement plaster. Plans being prepared.

COURT HOUSES.

MODESTO, STANISLAUS CO., CAL.—Court house plumbing. Cost not stated. Architect, none. Owners, Stanislaus County. Bids will be received until January 11th at 10 a. m. for new plumbing in the County Court House Plans can be secured from the County Clerk at Modesto.

Contracts Awarded

SACRAMENTO, CAL.—City hall and jail, 4 story and base, reinforced concrete, $216,050. Architects, Shea & Lofquist, Bankers' Investment Bldg., S. F. Owners, City of Sacramento. Contractor, H. S. Williams, Hearst Bldg., S. F., general construction, $197,426. Ralston Iron Works, S. F., special jail equipment, $18,624.

FACTORIES AND WAREHOUSES

Contracts Awarded

LOS ANGELES, CAL.—Warehouse, 7 story and basement, reinforced concrete, $56,954. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Peck & Hills. Contractors, National Fireproofing Co., Central Bldg., L. A. Contract price, $56,954. Subcontracts will be let.

FIRE REPORT

OCEAN BEACH, SAN DIEGO CO., CAL.—The Fraser pier, a million dollar structure, was partially destroyed by fire last week. The loss is estimated at $110,000. Preparations are now being made by the owners to have the structure rebuilt, and from estimates already secured it will cost in the neighborhood of $200,000 to replace the destroyed portion.

STOCKTON, SAN JOAQUIN CO., CAL.—The basement and ground floor of the Turner Building on Market street was gutted by fire last week, causing a loss of $5,000.

PORTLAND, ORE.—Damage amounting to $100,000 was caused to the plants

of the Emerson Hardwood Company, Ninth and Nocalai streets, by a fire that started in a dry kiln, last week. J. S. Emerson of Vancouver, B. C., is the president of the company. The plant is insured for $300,000.

PETALUMA, SONOMA CO., CAL.—The barn of A. B. Hill on Sonoma Mountain was destroyed by fire last week, causing a loss of $8,000. The structure will be rebuilt.

SANTA ROSA, SONOMA CO., CAL.—The country home of William Benson building will be given if the permit is granted.

FLATS

SAN FRANCISCO—Flats, 3 story and base, frame, $12,000. Architect, none. Owner, Fred Miller, 225 Dolores street, S. F. Location, east Dolores south of 15th, covering an area of 10 by 70 feet. Will contain nine flats of four, five and six rooms. Interiors finished in pine with some elm panels. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Thomas Kiernan, 1756 Mission street, S. F. Location, east Folsom south of 13th, covering an area of 25 by 96 feet. Will contain four small flats. Interiors finished in pine and on the Guerneyville road above Santa Rosa has been destroyed by fire. The structure was erected at a cost of $11,000.

SACRAMENTO, CAL.—Flats, 2 story and base, frame, $2,700. Architect, none. Owner, E. E. Sydenstricker, 2500 O street, Sacramento. Location 1609 24th street. Will contain two flats of five rooms each. Interiors finished in pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3, 2 story and base, frame, $5,000 each. Architect, none. Owner, P. H. Tyler, 1927 Oak street, S. F. Location, west 9th avenue south of Lake. Each will contain two modern flats of five and six rooms. Interior will be finished in pine with some elm panels and hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

SAN FRANCISCO—Garage, 2 story and base, reinforced concrete. Cost not stated. Architect, none. Owner, John Bartella, 1717 Stockton street, S. F. Location, east Mission street south of 18th, covering an area of 165 by 122 feet. Application has been made to the Supervisors for a permit to maintain a garage at this location. Details of the elm with some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Panama Circular 997.

Under circular 997, calling for bids to be opened at the office of the general purchasing officer of the Panama Canal at Washington and the assistant purchasing officer at San Francisco on December 18 for furnishing dynamite, no bids were received.

War's Influence on Naval Construction.

The dreadnaught is the ideal ship of war, according to a report submitted to Congress by the Secretary of the Navy. There has been considerable controversy as to the relative merits of battleships; battle cruisers, and submarines The report states that there has not as yet been any decisive naval engagement during the present war to test the relative merits of the various types. The report was submitted as the result of a provision in the naval appropriation bill passed during the second session of the 63rd Congress calling for a report on "building four warships of the type, power, and speed which, based on the knowledge gained from the prevailing war in Europe, are best suited for war on the sea, and also the value and uses in naval warfare of aeroplanes, dirigibles, balloons, and submarines." The reports from abroad considered preliminary to the submission of the report to Congress were confidential, and it is contrary to public interests to make them public. Great credit, however, is given the British navy for having driven the German fleet from the sea and providing safe transport for the troops and supplies for the allies, at the same time denying similar advantages to their adversaries. The report states that the so-called dreadnaught most nearly approaches the ideal warships, but that no single type of vessel could be successful against a properly balanced fleet. The proposed five-year building program submitted to Congress provides for a fleet of dreadnaughts, battle cruisers, scouts, and submarines as well as airships. The battle cruisers have not heretofore been included in the estimates submitted by the Navy Department to Congress. The reports from abroad show that the various types of air craft have demonstrated their undoubted value for observation and scouting purposes, as well as directing and controlling gun fire and to some extent, in offensive operation. The submarine is considered absolutely necessary in any future naval building program. The report also calls attention to the necessity for a merchant marine.

Panama Canal, Locomotives.

The purchasing officer of the Panama Canal will soon offer for sale 93 locomotives of the Mogul type. Twenty-four of these locomotives, manufactured by the American Locomotive Co. originally cost $12,350 each. There are 19 locomotives manufactured by the same company at an original cost of $11,307 each. Also, 13 locomotives by the same company at an original cost of $11,815 each. Of the number there are 37 manufactured by the Baldwin Locomotive Works at an original cost of $11,490 each. The advertisement for the sale of these engines will soon be issued.

Pearl Harbor, Hawaii, Marine Railway.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing a marine railway at the naval station, Pearl Harbor, Hawaii:

Item 1, net price for structural steel ship cradle, complete, with rollers and roller frames; 2, net price as per item 1, except that material is to be delivered f. o. b. naval station, Pearl Harbor; 3, net price for all materials required for the construction of an engine house, exclusive of concrete and anchor bolts; 4, net price as per item 3, delivered f. o. b. naval station, Pearl Harbor; 5, amount to be deducted from item 3 if structural steel frame of building be omitted; 6, amount to be deducted from item 4 if structural steel frame of building be omitted; 7, net price for electrically driven hoist, wire rope, and mechanical equipment; 7-A, net price as per item 7, except that equipment offered shall be in accordance with bidder's design; 8, net price as per item 7, except that material is to be delivered f. o. b. naval station, Pearl Harbor; 8-A, net price as per item 7-A, except that material is to be delivered f. o. b. naval station, Pearl Harbor; 9, amount to be deducted from price under item 7 if hydraulic dynamometer be omitted; 10, amount to be deducted from price under item 8 if hydraulic dynamometer be omitted; 11, net price for all piling, concrete work, except retaining wall and paving, including steel reinforcement and steel roller paths with fastenings, etc.; 11-A, net price as per item 11, except that details of concrete ways be in accordance with bidder's design; 12, net price for erection of steel ship cradle using materials provided under items 1 or 2; 13, net price for erection and completion of house for hoist on foundations provided under item 11, using materials provided under items 3 or 4; 14, do, using materials provided under items 3 and 5 or 4 and 6, including the furnishing of the wooden frame for the building; 15, net price for erection and placing of electrically driven hoist and all other materials provided under items 7 or 8 upon foundations provided under item 11; 16, amount to be deducted from price under item 11 if timber construction of equal strength be substituted for reinforced concrete in the 144 feet of trestle construction at the inner end of the ways; 17, amount to be deducted from price under item 11 if pier forms specified be made of wood instead of reinforced concrete:

The Spaulding Construction Co., 914 Rialto Building, San Francisco, Cal., item 1, $24,767.56; 2, $30,946.30; 3, $3,334.11; 4, $4,185; 5, $2,150; 6, $2,558; 7, $38,110; 8, $48,102; 9, $1,000; 10, $1,050; 11, $14,173; 12, $6,363; 13, $1,100; 14, $1,350; 15, $1,750; 16, $500; alternate bid, item 4, $4,185; 4-A, $4,100; 12-A, $25,720; 6, deduct $3,000; 6-A, deduct $2,500; 8-A, $37,850; 10, $1,100; 11, $12,173; 11-A, $39,967; 13, $1,305; 13-A, $1,100; 14, $980; 14-A, $850; 15-A, $1,650.

16, $500; 18, $5,000; 19, $99,990. (Items 18 and 19 were not called for in the specifications, but made up by the bidder.

The Lenher Engineering Co., 100 Broadway, New York city, item 7-A, $26,970 9, deduct from item 7, $1,070.

The Crandall Engineering Co., 102 Border street, East Boston, Mass., item 7-A, $12,845, on bidder's specifications; B, $12,935; 9, $480.

The United States Steel Products Co., 30 Church street, New York city, item 1, $21,906 2, $26,578; 3, $3,001; 4, $36,-080; 5, $2,026; 6, $2,512.

New Army Motor Truck Company.

The increasing usefulness of automobiles and motor trucks in Army transportation will probably lead to some special provision in the Army bill for the acquisition of new vehicles, mostly to replace those which have worn out in the service. One interesting feature contemplated is the purchase of equipment for a motor truck company, complete, consisting of 27 motor trucks, 5 motor cycles, 1 repair truck and 1 light automobile runabout. This proposed truck company is for furnishing supplies to troops in the field and is independent of field transportation pertaining to organization. It is intended that it shall be available for supplies to troops in the field and in camp and will form one unit of the division train. It is estimated that the outfit will cost about $75,000. It is also proposed to spend about $37,500 for the purchase of motor trucks in the United States and $20,000 additional for motor trucks in the Philippines to replace those vehicles which have outlived their usefulness. It is planned to purchase six automobiles next year at a cost of $2,000 each, which represents replacing one-fifth of the present number—27— of automobiles now in service. It is probable that $1,200 will be required for the purchase of motor cycles in the United States, the life of which is about three years. The machines are found of great use, 16 of them being now employed on the Mexican border. It is also interesting to know that there are 124 bicycles still used at Army posts in this country, and a certain number of new machines will be purchased out of funds for the next fiscal year.

Pocatello, Idaho, Furniture.

The contract for installing furniture in the U. S. post office at Pocatello, Idaho, has been awarded to Jacob Beitzel & Sons, York, Pa., at $568.

Fort Stanton Sanatorium, Repairs.

The contract for repairs to porch, building No. 16, and repairs to windows, building No. 2, at Fort Stanton Sanatorium, N. Mex., has been awarded to Henry W. Purdey at $516.35.

San Diego, Cal, Painting.

The contract for painting plastering in the U. S. post office at San Diego, Cal., has been awarded to Fairfax Bros., Geneva, N. Y., at $1,484.80; time, 60 days.

Reclamation Service, Laterals.

The Reclamation Service is asking for proposals for the construction of about nine and one-half miles of the Peach Valley lateral, Uncompahgre Valley irrigation project, Colo. The work lies in the vicinity of Austin and involves the excavation of about 56,200 cubic yards of material in open cut. The bids will be opened on January 18, 1916, at the office of the Reclamation Service, Montrose, Colo.

HOSPITALS

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital, 2 and 4 story and base, reinforced concrete and brick, $130,000. Architect, A. Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. Will consist of four-story administration building with two two-story wings and a two-story extension. Interior finish pine and hardwood and white enamel. Tile floors and wainscot. Steam heat, elevator service, oil burning equipment, hot water supply and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures being taken. Bids to be opened on January 18th.

BERKELEY, ALAMEDA CO., CAL.—Hospital toilet building, frame, $945. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. J. C. Nielson, 849 Athens avenue, Oakland, presented the low figure for constructing a yard toilet building at the Industrial Home for the Adult Blind. A complete list of the bids received appears under the heading of Oakland and Alameda County in this issue.

BISHOP, INYO CO., CAL.—Hospital, 1 story and base, reinforced concrete. Cost not stated. Architect, G. C. Clements, Bishop. Owners, Inyo County. The building will be arranged for wards and private rooms with office and operating room. Interior finish pine and white enamel with some tile. Steam heat and hot water system. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

EUREKA, HUMBOLDT CO., CAL.—Hospital, 2 story and base, frame, $13,-088. Architect, E. J. Burke, Eureka. Owners, Humboldt County. Contractor, Louis Halvorsen, Eureka. Contract price, $13,088.

OAKLAND, CAL.—Hospital dormitory and day hall, 4 story and base, brick and concrete, $74,149. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Alameda County. Contractors, Larsen-Sampson Co., Chronicle Bldg., S. F., general construction, $74,149. Butte Engineering and Electric Co., S. F., electric work, $3,142. The Turner Co., S. F., heating and ventilating, $4,640. Frederick Snook Co., S. F., plumbing, $6,620.

HOTELS

SAN FRANCISCO—Hotel, 3 story and base. Class C construction, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northeast corner of Seventh and Howard streets, covering an area of 50 by 90 feet. Will contain three stores and a total of 42 rooms. Interior finish pine throughout. Steam heat, hot water system and oil burning equipment. Bath rooms composition floors and wainscot. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

IRRIGATION PROJECTS

CHICO, BUTTE CO., CAL.—Drainage district. Cost not stated. Engineer, Frank S. Robinson, Chico. Owners, Butte County Drainage District No. 100. Civil Engineer Frank S. Robinson of Chico, formerly connected with the office of City Engineer Martin C. Polk of Chico, has been appointed chief engineer for Butte County Drainage District No. 100. The headquarters of the district are located at Richville and takes in a large acreage. Robinson will immediately start preliminary surveys for the location of drainage ditches on which construction will be started in the near future.

DOYLE, LASSEN CO., CAL.—Irrigation project. Cost not stated. Engineer, William L. Wales, Doyle. Owners, Southern Lassen District. The Southern Lassen District is now a legal body, its formation having been approved at the polls and its officers selected. The district comprises 22,500 acres. The officers of the newly formed district are: Assessor, John Meese; Treasurer, Silas States; Tax Collector, John Mauck; Directors, Elbert Howard, Lulu Wagner, Carl Sorwolke, William Steffens and Herbert Smart.

TRACY, SAN JOAQUIN CO., CAL.—Irrigation system, $285,000. Engineer, Walter G. Hunter, Stockton. Owners, West Side Irrigation District. At a meeting of the trustees of the West Side Irrigation District held last week at Tracy, Walter G. Hunter of Stockton was engaged as the engineer to prepare and submit plans for the construction. Engineer Hunter prepared the preliminary plans on which the voters decided to form a district. The plans were approved by Engineer C. E. Grunsky, who has been engaged by Mr. Hunter as consulting engineer. It is planned to take the water out of Old River near Bethany and carry it to the higher parts of the district by a series of pumps which will lift the water to higher levels where required. Further mention will be made of this work.

MODESTO, STANISLAUS CO., CAL.—Irrigation spillway, reinforced concrete. Cost not stated. Engineer, Herrmann, Modesto. Owners, Modesto Irrigation District. At a recent session of the Board of Directors of the Modesto Irrigation District Chief Engineer Herrmann was instructed to prepare plans and specifications for a spillway at the end of lateral 6. Bids on this work will be called for on completion of the plans.

OAKDALE, STANISLAUS CO., CAL.—Spillway, reinforced concrete, $20,000. Engineer, Smith, Oakdale. Owners, Oakdale Irrigation District. The Oakdale Irrigation District will build its own spillway to handle the surplus water near Claus. Chief Engineer Smith of the Oakdale District was instructed to secure all the necessary data and prepare sketches for the construction of the proposed spillway, which will carry the waste water a distance of five miles into the river. Further mention will be made of this work when Engineer Smith reports to the directors at their January meeting.

LIBRARIES

BERKELEY, ALAMEDA CO., CAL.—Library addition, 2 story. Class A construction. Cost not stated. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be received until January 13th for the granite work, plumbing, elevators, book lifts, book stacks and metal furniture for the new addition to the University Library. Plans can be secured from the architect. An official proposal appears in another column of this issue.

POWER PLANTS AND WATER SYSTEMS.

ORLAND, GLENN CO., CAL.—Auxiliary pumping plant, $10,000. Engineer, Town Engineer, Orland. Owners, Town of Orland. The town of Orland is negotiating for the purchase of an auxiliary pumping outfit for the municipal waterworks. The water is now pumped entirely by power furnished by electric motors. The failure of the current on several different occasions has emphasized the need of an auxiliary plant to be used in case of fire when the other power is not available.

RESIDENCES.

SAN FRANCISCO — Residence, 2 story and base, $3,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, K. H. Holngren. Location, west 18th avenue south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finish pine and southern gum. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, C. A. Hall, 1318 5th avenue, S. F. Location, east 12th avenue south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, John Christiansen. Location, Arguello Boulevard south of Carl. Will contain six rooms, bath and sleeping porch. Basement garage. Interior finished in pine and hardwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Bath room tile. Mantel tile or brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, 49th street east of Lawton. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, William R. Crummey, 1627 25th avenue, Oakland. Location, east 24th avenue south of East 21st street. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Tile bath rooms. Automatic water heater. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

SCHOOLS

RIVERSIDE, RIVERSIDE CO., CAL.—Citrus experiment station, brick, frame and concrete, $50,000. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owners, Regents of the University of California. The plans provide for an administration building to cost about $37,000; residence for the director to cost $11,000; residence for the superintendent to cost $3,000, and several barns and other outbuildings. The main building will be a two-story structure, 60 by 150 feet with two one-story and basement wings, each 50 by 50 feet. It will contain the general offices, library, assembly room, chemical and plant laboratories, etc. The residence for the director will be two-stories and the one for the superintendent a one-story bungalow. The construction will be of hollow tile or brick with plastered exteriors, tile roofs, pine and hardwood trim and floors.

NORTH BEND, WASH.—School, 2 story and base, brick, $40,000. Architects, Stephen & Stephen, New York Bldg., Seattle. Owners, Town of North Bend. Will contain a number of standard sized class rooms and an auditorium. Interior finish pine with maple floors in the class rooms. Steam heat housed in separate building. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

SAN FRANCISCO—School, 2 story and base, brick and steel. Cost not stated. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, City and County of San Francisco. Contractor, C. L. Wold, 75 Sutter street, S. F., general construction of the Redding School. Contract price, $19,295.

KINGSBURG, FRESNO CO., CAL.—School, 2 story and base, brick, $40,700. Architect, Anton Johnson, 1427 I street, Fresno Owners, Kingsburg Joint Union High School District. Contractors, Trewhitt & Shields, Rowell Bldg., Fresno. Contract price, $40,700.

LOS ANGELES, CAL.—School group, 3, 1 and 2 story and base. Class A construction, $182,028. Architects, Norman F. Marsh and Herbert C. Howard, Broadway Central Bldg., L. A. Owners, Jefferson High School District. Contractor, J. F. Atkinson, Story Bldg., L. A. Contract price, $182,028.

SEWERS, STREET WORK & WATER SYSTEMS

SAN LEANDRO, ALAMEDA CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, San Leandro. Owners, Town of San Leandro. A resolution of intention providing for a portion of San Leandro between Joaquin and Juana avenue has been passed by the Board of City Trustees. Bids on this work will be called for the latter part of January.

OAKLAND, CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on January 13th for the construction of a sewer with an internal diameter of 8 inches along the center line of Solano Way from the center line of 47th avenue point distant 250 feet northwesterly therefrom measured along said center line of Solano Way; also a brick manhole with cast iron top be constructed at the southeastern end of said sewer; also a lamphole with brick and cast iron top be constructed at the northwestern end of said sewer; also Y branches having 5-inch openings be constructed on said sewer so as to provide one such branch for each 25-foot lot and fractional lot remaining into which the abutting property frontage is capable of being divided. Said sewer, lamphole (excepting the top thereof), and Y branches shall be constructed of vitrified sewer pipe.

OAKLAND, CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until January 13th for the construction of a sewer having an internal diameter of 8 inches along the center line of Tompkins avenue from the center line of Vale avenue to a point distant 240 feet northwesterly therefrom measured along the center line of Tompkins avenue; also a lamphole with a top of brick and cast iron be constructed at the northwestern end of said sewer; also Y branches with 5-inch openings be constructed on said sewer so as to provide one such branch for each 40-foot lot and fractional lot remaining into which the abutting property frontage is capable of being subdivided. Said sewer, lamphole (excepting the top thereof), and Y branches shall be constructed of vitrified sewer pipe.

SAN MATEO, SAN MATEO CO., CAL.—Culvert, reinforced concrete. Cost not stated. Engineer, City Engineer, San Mateo. Owners, City of San Mateo. The City Trustees have instructed the City Engineer to prepare plans and specifications for a culvert under El Camino Real to connect Barroilhet and Peninsula avenues. Further mention will be made of this work.

SALINAS, MONTEREY CO., CAL.—Sewer Construction. Cost not stated. Engineer, City Engineer Davies, Salinas. Owners, City of Salinas. City Engineer Davies has been instructed to submit a report to the Council on the construction of a sewer in Maple street. Action will be taken at the Council meeting in January.

WATSONVILLE, SANTA CRUZ CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer Kitchen, Watsonville. Owners, City of Watsonville. Acting on the recom-

mendation of the Street Committee the Board of Aldermen has instructed City Engineer Kitchen to immediately draft the plans and specifications for the installation of the proposed storm water system for this city. When the plans are complete action in calling for bids for the work gill be taken by the Aldermen.

RICHMOND, CONTRA COSTA CO., CAL.—Road improvement. Cost not stated. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. One mile of San Pablo avenue within the city limits will be improved as a link in the state highway from Oakland to Martinez. Grades were ordered changed by the City Council and plans approved for a paved strip 20 feet wide. Bids on this work will be called for shortly.

LOYALTON, SIERRA CO., CAL. — Lighting system, $8,000. Engineer's name not given. Owners, Town of Loyalton. The Town Trustees are considering the erection of a plant and an electric lighting system. Funds for the system are now available.

SACRAMENTO, CAL.—State highway construction. Cost as follows. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids opened at the December meeting of the Highway Commission show Taylor & Berliner, Willits, low for about 10.2 miles in Tehama County at $61,282; G. W. Conners, Eureka, low for about 7.5 miles in Placer County, and A. C. McLean Construction Co., S. F., low for about 6.5 miles in the same county. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

Contracts Awarded.

LOS ANGELES, CAL.—Subway construction, reinforced concrete, $56,700. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Bent Bros., Central Bldg., L. A. Contract price, $56,700.

RIVERSIDE, RIVERSIDE CO., CAL. —Highway construction, 13.43 miles, $33,892.28. Engineer, County Surveyor, Riverside. Owners, Riverside County. Contractors, Brashear-Burns Co., F. W. Van Nuys Bldg., L. A. Contract price, $33,892.28.

SHELL COMPANY TO CONSOLIDATE INTO ONE COMPANY.

SACRAMENTO, Cal., Dec 24.—Shell Company of California has been permitted by the State Corporation Depatment to issue 6,000 shares of its common stock to The Shell Company of California, Inc., 129,995 shares to California Oil Fields, Ltd., and 113,992 shares to Anglo-Saxon Petroleum Company, Ltd. The shares are of the par value of $100. The California company is taking over the assets of the various subsidiary companies of the Shell interests so as to consolidate them in the one company.

The Municipal Bond Market is looking up, and the Bond Buyers are looking the **"Building and Engineering News"** up. A proposal ad for your bonds in our columns will bring competition.

Advocates Of Quantity System Are Cautioned.

By G. Alexander Wright, San Francisco

The movement urging the adoption of the Quantity System in the United States was commenced in San Francisco early in 1891. This movement has continued down to the present time and has now extended over the entire country. Its object has never been, and is not, to profit financially, but to promote better contracting methods between owner and contractor, solely because they **are** better. Neither the movement (nor its promoter) endorses any firm or individual, as is commonly supposed, and even sometimes suggested.

Considerable interest has been aroused in the United States as a direct result of these long continued efforts. Much of an educational value has been accomplished. Those, however, who have the future adoption of the Quantity System really at heart, (and not because of the business it may bring them) realize that much more preliminary and unremunerative work must be done before the advantages of the Quantity System can be fully understood and appreciated by Contractors and Owners.

Unfortunately however, as is so often the case (when likely looking prospects appear upon the business horizon) the commercial spirit, the dollar desire which cannot wait, has been aroused, and we already have business enterprises advertising their wares, their material lists or what not, from a few dollars, up. Then again during the last year or two, there have sprung up, as an indirect result of the movement referred to, (principally in our larger Eastern cities,) certain self styled authorities on the Quantity System some of whom it is safe to say, have no practical experience with the system, and herein lies a danger before us.

It is therefore best for the conservative admirers or advocates of the Quantity System to "mark time," and not be too ready, at least for the present, to allow the use of their names as advocates of any methods, or firms, who, to get business, are far too ready to make claims for their so-called lists, quantity surveys, unit items, or whatever other name the promoters may adopt to attract customers.

It is sufficient to say that such methods are not those of persons educated in the practical operation of the Quantity System, and which is the only standard method which possesses any advantage over the contracting practices of today. The Quantity "System" is the proper term to use, not Quantity Survey, as it possesses a greater significance than anything else.

No Bill of quantities should be regarded as equitable which contains any clause making it the duty of Bidders to refer back to the drawings and specifications concerning value or quantity.

All such clauses are against the bidder, they impose upon him a responsibility which he should not accept, and which may be construed unfavorably to him, as constituting a condition precedent to his bidding in case of dispute.

Reprinted from "Daily Pacific Builder" San Francisco.

Brandon Club Enjoys Banquet.

Seventy-five Builders Gather at Mint Restaurant.

One of the most enjoyable and appropriate celebrations of the present Holiday Season, was a banquet given by the Builders' Brandon Club, last week at the Mint Restaurant, in honor of Edward J. Brandon, Supervisor elect.

Seventy-five prominent builders and material men who had been most active in the campaign of Mr. Brandon sat down at a banquet table laden with many delicacies every one of which was essential to the happiness of the esthetic gastronomers, and the liberal quantities of shrimps, salads, soups, turkey and cranberry sauce, Italian spaghet and ravaolis consumed by this hungry aggregation was an assurance to Host Harold Walker that as a caterer he is pre-eminently successful.

Although this galaxy of bright and shining stars of the Building firmament need no trimmings to make their presence agreeable, Host Walker had decorated the table very appropriately and tastefully with everygreens, flowers and holy berries and altogether the affair tock on a decidedly holiday appearance.

Jos Kaiser, President of the Brandon Club, lined up the forces and acted as toast master in a highly acceptable manner, and after the wonderful feed had been washed down with repeated and copious draughts of wine, and real wine, and the Cafe Noir had been served and the tongues of the guests no longer protruded, Toast Master Kaiser called upon everybody present for some pretty sentiment.

Each and everyone present responded with a song, a story or an impromptu speech, in which the many amusing instances of the Brandon campaign were enumerated, and all were particularly proud that the people of the City and County of San Francisco had, upon the advice of this club, availed themselves of the services of Edward J. Brandon as Supervisor for the next four years.

Specially honored guests of the Brandon Club were Chief Building Inspector John P. Horgan, Supervisor Con Deasy, Chalmer Munday, Scotch McClelland, Chas. Hornrig and C. O. Clausen.

CALIFORNIA COMPANY TO BUILD BATTLESHIPS.

SACRAMENTO, Cal.—The California Ship Building Company filed articles of incorporation recently in the office of the Secretary of State to build battleships, cruisers, torpedoes and aerocraft, submarines and all other vessels of war. This concern is a $5,000,000 firm organized under the laws of Maine and the articles of incorporation were sent here from Los Angeles.

OFFICIAL PROPOSALS.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1000 — Proposals for Galvanized Sheet Steel or Iron, Spring Steel, Locomotive Tires, Steel and Iron Pipe, Pipe Fittings, Rivets, Bolts, Cotters, Screws, Tacks, Sheet Zinc, Valves, Hose Couplings, Hose Nozzles, Brass Chain, Hinges, Hasps, Door Bolts, Locks, Bed Knobs, Tool Handles, Mop Handles, Ladders, Corn Brooms, Stable Brooms, Manure Forks, Grindstones, Coal Baskets, Chain Blocks, Snatch Blocks, Tackle Blocks, Tallow Pots, Locomotive Oilers, Oil Cans, Lubricators, Steam Gauges, Lanterns, Lantern Globes, Porthole Glasses, Torches, Electric Detonators, Electrical Attachments, Reflectors, Electric Fixtures, Panel Board, Carbon Brushes, Electric Wire, Bed Casters, Rules, Metallic Tapes, Scythe Stones, Fire Brick, Magnesia Boiler Lagging, Railway Flags, Pencils, Crayon, Blank Books and Paper.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 17, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1000) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR EXCAVATING.

EXCAVATING—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. reclamation service, Montrose, Colo., until **4 o'clock p. m. January 18, 1916**, for the construction of about nine and one-half miles of the Peach Valley lateral, Uncompahgre Valley project, in the vicinity of Austin, Colo. The work involves the excavation of about 56,200 cubic yards of material in open cut. For particulars address the U. S. reclamation service, Montrose, Colo.; Tramway Building, Denver, Colo., or Washington, D. C. WILL R. KING, acting director.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 998 — Steel, Iron, Pig Iron, Chain, Steel Cable, Wire, Horseshoes, Toe Calks, Sheet Tin, Track Frngs, Steel and Iron Castings, Manganese Steel Dipper Lips, Track Spikes, Nails, Bolts, Rivets, Missing Links, Chain Shackles, Cable Clips, Turnbuckles, Stovepipe, Babbitt Metal, Bronze, Brass, Copper, Copper Tubing, Brass Tubing, Pig Lead, Sheet Lead, Lead Washers, Lead Pipe, Sheet Zinc, Shovels, Taps, Pipe Tongs, Foot Bolts, Hinges, Valves, Sanitary Fixtures, Wagon Rims and Spokes, Manila Rope, Leather, Crayons, Silica Sand, Fire Clay, Foundry Clay, Silica Grit, Calcium Chloride, Ash Soda, Pitch, Alumina Sulphate, White Zinc, White Lead, Turpentine Substitute, Fish Oil, Paints, Lard Oil, Linseed Oil, Neat's-foot Oil, and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 8, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 998) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE.

SALE OF CANADIAN BUILDING.

PANAMA-PACIFIC INTERNATIONAL EXPOSITION.

SEALED OFFERS will be received by Col. William Hutchison, Commissioner General, Canadian Building, Exposition Grounds, San Francisco, California, **at 3:30 P. M., January 6, 1916, for THE PURCHASE OF THE SAID CANADIAN BUILDING NOW OWNED BY THE CANADIAN GOVERNMENT ON THE EXPOSITION GROUNDS.**

Each proposal must be accompanied by a certified check payable to the order of Col. Wm. Hutchison, Commissioner General for Canada, in the sum of five (5) per cent of the amount bid to guarantee the good faith of the bidder, or the same will not be considered. When the award of contract is made all checks will be returned to the respective bidders, except that filed with the accepted proposal or bid. The sum payable upon the check of the successful bidder shall act as a credit against the full purchase price.

The right is reserved to reject any and all bids and waive technical defects if in the interest of the Canadian Government.

All necessary details regarding the said purchase of the Canadian Building may be obtained in applying at the Canadian Building, Exposition Grounds.

WM. HUTCHISON,
Commissioner General. (*)

PROPOSALS FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, University of California, Berkeley, Cal., at or before **3 P. M., Thursday, January 13th, 1916**, for the General Contract, Granite, Plumbing, Elevators and Book Lifts, and Book Stacks and Metal Furniture for the completion of the University Library on the grounds of the University of California, Berkeley, as per plans and specifications on file and obtainable after 9 A. M., Friday, December 24th, at the Cashier's window in said office.

A deposit of $50.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon return of said plans and specifications, accompanied by a regular bid for the work. No bids will be received unless accompanied by a certified check or bond in favor of the undersigned, equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

LOS ANGELES AND SOUTHERN CALIFORNIA.

AMER. SOC. OF CIVIL ENGINEERS.

So. Calif. Association of Members.

President—William Mulholland.
First Vice-President—H. Hawgood.
Second Vice-President—Louis C. Hill.
Secretary—W. K. Barnard.
Treasurer—C. H. Lee.

Meetings bi-monthly. Address all communications to W. K. Barnard, Secretary, 701 Central Bldg., Los Angeles.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 998 — Steel, Iron, Pig Iron, Chain, Steel Cable, Wire, Horseshoes, Toe Calks, Sheet Tin, Track Frogs, Steel and Iron Castings, Manganese Steel Dipper Lips, Track Spikes, Boat Spikes, Chain Shackles, Cable Clips, Turnbuckles, Stovepipe, Babbitt Metal, Bronze, Brass, Copper, Copper Tubing, Brass Tubing, Pig Pipe, Sheet Zinc, Shovels, Taps, Pipe Tongs, Foot Bolts, Hinges, Valves, Sanitary Fixtures, Wagon Rims and Spokes, Manila Rope, Leather, Crayone, Silica Sand, Fire Clay, Foundry Clay, Silica Grit, Calcium Chloride, Ash Soda, Pitch, Alumina Sulphate, White Zinc, White Lead, Lard Oil, Linseed Oil, Neat's-foot Oil, Turpentine Substitute, Fish Oil, Paints and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 8, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 998) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 16, 1915.—SEALED PROPOSALS will be opened in this office **at 3 P. M., January 27, 1916**, for the construction complete (including mechanical equipment and approaches) of the United States Post Office at Ellensburg, Wash. Drawings and specifications may be obtained from the custodian of site at Ellensburg, Wash., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

BRICKLAYER FALLS SIX STORIES; LIVES.

SACRAMENTO, Cal.—George Barker, bricklayer, Thursday fell from the sixth story of a bank building being constructed here, and was probably fatally injured.

Only two bones were broken, but he sustained serious internal injuries. He has a wife and child in San Francisco.

PLANS FOR MODERNIZATION OF SANTIAGO.

[Diario Oficial, Santiago, Chile.]

A commission has been named to make an exhaustive study of plans for the modernization of Santiago, Chile, with ample provision for the future growth of the city. This commission, which includes the mayor and other municipal officials of Santiago, will submit detailed plans to the Government for adoption.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCE — 2 story and base, $3,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, K. H. Holngren. Location, west 18th avenue south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finish pine and southern gum. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Lahor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, C. A. Hall, 1318 5th avenue, S. F. Location, east 12th avenue south of Balboa. Will contain six rooms, hath and sleeping porch. Interior finish pine and hardwood with white enamel in the be drooms. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, John Christiansen. Location, Arguello Boulevard south of Carl. Will contain six rooms, bath and sleeping porch. Basement garage. Interior finished in pine and hardwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Bath room tile. Mantel tile or brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 story and base, reinforced concrete, $45,000. San Francisco. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, C. A. Meussdorffer. Location, east Jones north of Sutter, covering an area of 80 by 62 feet. Will contain a number of large apartments. Interior finish pine, hardwood and white enamel with hardwood floors, wall beds and private bath rooms. Steam heat, automatic elevator and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster in imitation of cut stone. Plans complete and figures being taken.

CHURCH—1 story and base, brick and steel, $60,000. San Francisco. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owners, Second Church of Christ, Scientist. Location, southeast Cumberland and Dolores streets, covering an area of 80 by 130 feet. Interior will contain main auditorium, Sunday school rooms, reading rooms and study. Finish pine and hardwood with some ornamental plaster. Steam heat and modern ventilating. Art glass windows. Exterior faced with pressed brick. Plans complete and figures in for the steel and concrete work. Balance of work to be figured shortly.

FLATS—3 story and base, frame, $12,000. San Francisco. Architect, none. Owner, Fred Miller, 225 Dolores street, S. F. Location, east Dolores south 15th, covering an area of 40 by 70 feet. Will contain nine flats of four, five and six rooms. Interiors finished in pine with some elm panels. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Lahor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Thomas Kiernan, 1756 Mission street, S. F. Location, east Folsom south of 13th, covering an area of 25 by 96 feet. Will contain four small flats. Interiors finished in pine and elm panels with some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—3, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owner, P. D. Tyler, 1927 Oak street, S. F. Location, west 9th avenue south of Lake. Each will contain two modern flats of five and six rooms. Interiors will be finished in pine with some elm panels and hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—2 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, none. Owner, John Bartella, 1717 Stockton street, S. F. Location, east Mission street south of 18th, covering an area of 165 by 122 feet. Application has been made to the Supervisors for a permit to maintain a garage at this location. Details of the building will be given if the permit is granted.

HOTEL—3 story and base. Class C construction, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northeast corner of Seventh and Howard streets, covering an area of 50 by 90 feet. Will contain three stores and a total of 42 rooms. Interior finish pine throughout. Steam heat, hot water system and oil burning equipment. Bath rooms composition floors and wainscot. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

SCHOOL—2 story and base, brick and steel. Cost not stated. San Francisco. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, City and County of San Francisco. Contractor, C. L. Wold, 75 Sutter street, S. F., general construction of the Redding School. Contract price, $19,295.

OAKLAND AND ALAMEDA COUNTY.

STREET IMPROVEMENT—Cost not stated. San Leandro, Alameda Co., Cal. Engineer, Town Engineer, San Leandro. Owners, Town of San Leandro. A resolution of intention providing for the improvement of a portion of San Leandro between Joaquin and Juana avenue, has been passed by the Board of City Trustees. Bids on this work will be called for the latter part of January.

SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on January 13th for the construction of a sewer with an internal diameter of 8 inches along the center line of Solano Way from the center line of 17th avenue point distant 250 feet northwesterly therefrom measured along said center line of Solano Way; also a brick manhole with cast iron top be constructed at the southeastern end of said sewer; also a lamphole with a brick and cast iron top be constructed at the northwestern end of said sewer; also Y branches having five openings be constructed on said sewer so as to provide one such branch for each 25 foot lot, and fractional lot remaining into which the abutting property frontage is capable of being divided. Said sewer lamphole (excepting the top thereof), and Y branches shall be constructed of vitrified sewer pipe.

SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until January 13th for the construction of a sewer having an internal diameter of 8 inches along the center line of Tompkins avenue from the center line of Yale avenue to a point distant 240 feet northwesterly therefrom measured along the center line of Tompkins avenue; also a lamphole with a top of brick and cast iron be constructed at the northwestern end of said sewer; also Y branches with five-inch openings be constructed on said sewer so as to provide one such branch for each 40-foot lot and fractional lot remaining into which the abutting property frontage is capable of being divided. Said sewer, lamphole (excepting the top thereof), and Y branches shall be constructed of vitrified sewer pipe.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, 49th street east of Lawton. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect,

none. Owner, William R. Crummey, 1627 25th avenue, Oakland. Location, east 24th avenue south of East 21st street. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Tile bath rooms. Automatic water heater. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owners, Collins Bros., 825 57th street, Oakland. Location, East Oakland. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and redwood. Some hardwood floors. Central heating system and hot water system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—6 story and base, brick and steel, $90,000. Oakland, Cal. Architect, H. H. Keys, Central Bank Bldg., Oakland. Owner's name withheld. Will contain 41 suites of two, three and four rooms. Interior finish pine and hardwood with hardwood floors. Steam heat, automatic elevator, hot water system and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Preliminary plans only prepared. Further mention of the work.

HOSPITAL DORMITORY AND DAY HALL—4 story and base, brick and concrete, $74,149. Oakland, Cal. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Alameda County. Contractors, Larsen-Sampson Co., Chronicle Bldg., S. F., general construction, $74,149. Butte Engineering and Electrical Co., S. F., electric work, $3,142. The Turner Co., S. F., heating and ventilating, $4,640. Frederick Snook Co., S. F., plumbing, $6,620.

LIBRARY ADDITION—2 story, Class A construction. Cost not stated. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be received until January 13th for the granite work, plumbing, elevators, book lifts, book stacks and metal furniture for the new addition to the University Library. Plans can be secured from the architect. An official proposal appears in another column of this issue.

HOSPITAL TOILET BUILDING — frame, $945. Berkeley, Alameda Co., Cal. Architect, George B. McDougall, Sacramento. Owners, State of California. J. C. Nielson, 849 Athens avenue, Oakland, presented the low figure for constructing a yard toilet building at the Industrial Home for the Adult Blind. A complete list of the bids received appears under the heading of Oakland and Alameda County in this issue.

The Municipal Bond Market is looking up, and the Bond Buyers are look-the **"Building and Engineering News"** up. A proposal ad for your bonds in our columns will bring competition.

State Opens Bids For Berkeley Job.

J. C. Nielson of Oakland Low for Building at Industrial Home for Adult Blind in Berkeley.

(By Special Wire)

SACRAMENTO, CAL., Dec. 28th, 1915.—Bids were opened by the State Department of Engineering for the construction of a yard toilet building at the Industrial Home for Adult Blind in Berkeley. J. C. Nielson, 849 Athens avenue, Oakland, presented the low bid at $945 and will be awarded the work. A complete list of the bids follow:

Yard Toilet Building.

J. C. Nielson	$ 945
M. P. Mortensen	1,090
Adolph Wegner	1,095
J. Wendering	1,250
A. F. Eliel & Co.	1,315
G. Zelinsky	1,357
L. G. Bergren & Son	1,372
W. & R. H. Pearce	1,457
George W. Boxton & Son	1,490

SAN JOSE AND THE SANTA CLARA VALLEY

CULVERT — Reinforced concrete. Cost not stated. San Mateo, San Mateo Co., Cal. Engineer, City Engineer. San Mateo. Owners, City of San Mateo. The City Trustees have instructed the City Engineer to prepare plans and specifications for a culvert under El Camino Real to connect Barroilhet and Peninsula avenues. Further mention will be made of this work.

SEWER CONSTRUCTION—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer Davies, Salinas. Owners, City of Salinas. City Engineer Davies has been instructed to submit a report to the Council on the construction of a sewer in Maple street. Action will be taken at the Council meeting in January.

SEWER CONSTRUCTION—Cost not stated. Watsonville, Santa Cruz Co., Cal. Engineer, City Engineer Kitchen. Watsonville. Owners, City of Watsonville. Acting on the recommendation of the Street Committee the Board of Aldermen has instructed City Engineer Kitchen to immediately draft the plans and specifications for the installation of the proposed storm water system for this city. When the plans are complete action on calling for bids for the work will be taken by the Aldermen.

Bids Received For San Jose Normal.

Western Building and Engineering Co. Low For Domestic Science and Temporary Class Room Building.

(By Special Wire.)

SACRAMENTO, CAL., Dec. 31, 1915.—Twenty-one sets of figures were opened today by the State Department of Engineering for the construction of a domestic science building and temporary class room building to be erected at the State Normal School at San Jose. The Western Building & Engineering Co., Phelan Bldg., San Francisco, presented the low bid at $15,432 and will probably be awarded the contract. Following is a complete list of the bids received.

Domestic Science and Class Room.

Western Bldg. & Eng. Co.	$15,432
N. G. Zelinsky	15,565
L. G. Bergren & Son	15,572
George W. Boxton & Son	16,400
Carnahan & Mulford	16,839
Pacific Construction Co.	17,196
Grace & Bernieri	17,377
Harvey A. Kylce	17,500
C. A. Day Co.	17,690
W. & R. H. Pearce	17,951
Louis Cereghino & Son	18,780
M. P. Mortensen	18,790
Williams Bros. & Henderson	18,854
William C. Keating	18,880
Thomas Elam & Son	19,200
A. F. Eliel & Co.	19,451
Peter M. Schmidt	19,503
R. O. Sommers	19,698
Morrison Bros.	19,838
Monson Bros.	19,837
W. D. Henderson	19,978

MARIN, CONTRA COSTA AND SONOMA COUNTIES

ROAD IMPROVEMENT — Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. One mile of San Pablo avenue within the city limits will be improved as a link in the state highway from Oakland to Martinez. Grades were ordered changed by the City Council and plans approved for a paved strip 20 feet wide. Bids on this work will be called for shortly.

BRIDGE—Steel and concrete, $89,791. Green Point, Marin Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California and Marin and Sonoma Counties. The low bid for the construction of this work was presented to the State Highway Commission on December 27th by Healy-Tibbitts Construction Co., 9 Main street, S. F., at $89,791. A contract has not been awarded. A complete list of the figures received will be found under the heading of Sacramento in this issue.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

BRIDGE AND TWO SIPHONS — Reinforced concrete. Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Bids will be received until January 11th for the construction of a reinforced concrete bridge over the San Joaquin and Kings River Irrigation Company's canal about 0.3 of a mile northeast of the town of Crows Landing, and for two inverted siphons at Stations 20 plus 00 and 34 plus 78.5 of highway survey in the County of Stanislaus.

IRRIGATION SPILLWAY — Reinforced concrete. Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, Herrmann, Modesto. Owners, Modesto Irrigation District. At a recent session of the Board of Directors of the Modesto Irrigation District Chief Engineer Herrmann was instructed to prepare plans and specifications for a Spillway at the end of lateral 6. Bids

on this work will be called for on completion of the plans.

SPILLWAY — Reinforced concrete, $20,000. Oakdale, Stanislaus Co., Cal. Engineer, Smith, Oakdale. Owners, Oakdale Irrigation District. The Oakdale Irrigation District will build its own spillway to handle the surplus water near Claus. Chief Engineer Smith of the Oakdale District was instructed to secure all the necessary data and prepare sketches for the construction of the proposed spillway, which will carry the waste water a distance of five miles into the river. Further mention will be made of this work when Engineer Smith reports to the directors at their January meeting.

COURT HOUSE PLUMBING — Cost not stated. Modesto, Stanislaus Co., Cal. Architect, none. Owners, Stanislaus County. Bids will be received until January 11th at 10 a. m. for new plumbing in the County Court House. Plans can be secured from the County Clerk at Modesto.

Contracts Awarded.

SCHOOL—2 story and base, brick, $40,700. Kingsburg, Fresno Co., Cal. Architect, Anton Johnson, 1427 I street, Fresno. Owners, Kingsburg Joint Union High School District. Contractors, Trewhitt & Shields, Rowell Bldg., Fresno. Contract price, $40,700.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

LIGHTING SYSTEM—$8,000. Loyalton, Sierra Co., Cal. Engineer's name not given. Owners, Town of Loyalton. The Town Trustees are considering the erection of a plant and an electric lighting system. Funds for the system are now available.

STATE HIGHWAY CONSTRUCTION Cost as follows. Sacramento, Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids opened at the December 27th meeting of the Highway Commission show Taylor & Berliner, Willits, low for about 10.2 miles in Tehama County at $61,282, G. W. Conners, Eureka, low for about 7.5 miles in Placer County; and A. C. McLean Construction Co., S. F., low for about 6.5 miles in the same county. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

BRIDGE—Steel and concrete, $90,000. Eureka, Humboldt Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California and Humboldt County. County Auditor Carr, who returned from Sacramento a few days ago, states that he consulted the Highway Commission relative to the proposed highway bridge across Eel River near Spy Rock. As a result of his talk with the commission the state has practically agreed to furnish the plans and specifications for the bridge and contribute $10,000 of the estimated $90,000 that it will cost, the county to furnish the remainder of the money. The proposition is to be submitted to the Board of Supervisors. Further mention will be made of this work when action is taken by the County Supervisors.

AUXILIARY PUMPING PLANT — $10,000. Orland, Glenn Co., Cal. Engineer, Town Engineer, Orland. Owners, Town of Orland. The town of Orland is negotiating for the purchase of an auxiliary pumping outfit for the municipal waterworks. The water is now pumped entirely by power furnished by electric motors. The failure of the current on several different occasions has emphasized the need of an auxiliary plant to be used in case of fire when the other power is not available.

DRAINAGE DISTRICT — Cost not stated. Chico, Butte Co., Cal. Engineer, Frank S. Robinson, Chico. Owners, Butte County Drainage District. Civil Engineer Frank S. Robinson of Chico, and formerly connected with the office of City Engineer Martin C. Polk of Chico, has been appointed chief engineer for Butte County Drainage District No. 10. The headquarters of the district are located at Richville and takes in a large acreage. Robinson will immediately start preliminary surveys for the location of drainage ditches on which construction will be started in the near future.

IRRIGATION PROJECT — Cost not stated. Doyle, Lassen Co., Cal. Engineer, William L. Wales, Doyle. Owners, Southern Lassen District. The Southern Lassen District is now a legal body, its formation having been approved at the polls and its officers selected. The district comprises 22,500 acres. The officers of the newly formed district are: Assessor, John Meese; Treasurer, Silas States; Tax Collector, John Mauck; Directors, Elbert Howard, Lulu Wagner, Carl Sorwolke, William Steffens and Herbera Smart.

IRRIGATION SYSTEM — $285,000. Tracy, San Joaquin Co., Cal. Engineer, Walter G. Hunter, Stockton. Owners, West Side Irrigation District. At a meeting of the trustees of the West Side Irrigation District held last week at Tracy, Walter G. Hunter of Stockton was engaged as the engineer to prepare and submit plans for the construction. Engineer Hunter prepared the preliminary plans on which the voters decided to form a district. The plans were approved by Engineer C. E. Grunsky, who has been engaged by Mr. Hunter as consulting engineer. It is planned to take the water out of Old River near Bethany and carry it to the higher parts of the district by a series of pumps which will lift the water to higher levels where required. Further mention will be made of this work.

APARTMENT HOUSE—3 story and base, reinforced concrete, $50,000. Eureka, Humboldt Co., Cal. Architect, Frank P. Georgeson, Eureka. Owner, G. B. Georgeson, Eureka. Location, southwest corner of 5th and K streets. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior finish pine and redwood with some hardwood floors. Steam heat, hot water system and vacuum cleaning. Bath rooms tile wainscot and composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $2,700. Sacramento, Cal. Architect, none. Owner, E. E. Sydenstricker, 2500 O street, Sacramento. Location, 1609 24th street. Will contain two flats of five rooms each. Interiors finished in pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

CITY HALL AND JAIL—4 story and base, reinforced concrete, $216,050. Sacramento, Cal. Architects, Shea & Lofquist, Bankers' Investment Bldg., S. F. Owners, City of Sacramento. Contractor, H. S. Williams, Hearst Bldg., S. F., general construction, $197,426. Ralston Iron Works, S. F., special jail equipment, $18,624.

HOSPITAL—2 story and base, frame, $13,088. Eureka, Humboldt Co., Cal. Architect, E. J. Burke, Eureka. Owners, Humboldt County. Contractor, Louis Halvorsen, Eureka. Contract price, $13,088.

Receive Figures For State Dairy Building.

L. G. Burgren & Son Low for Work at California School for Deaf and Blind at Berkeley.

(By Special Wire)

SACRAMENTO, CAL., Dec. 14, 1915.—L. G. Burgren & Son, Hearst Bldg., San Francisco, submitted the low bid for constructing the dairy building at the California School for the Deaf and Blind at Berkeley at $5,400. They will probably be awarded the contract although official action was not taken at today's meeting. Sixteen firms submitted figures on the work as follows:

Dairy Building.

L. G. Burgren & Son	$5,400
George W. Boxton & Son	5,431
M. P. Mortensen	5,793
Louis Cereghino & Son	5,880
Constr. & Eng. Co.	5,940
McLeran & Peterson	6,000
Jones & McGovern	6,052
M. D. Zelinsky	6,244
W. D. Henderson	6,426
R. H. Pearce	6,500
Robinson & Place	6,575
Monson Bros.	6,887
J. Wendering	6,975
Adolph Wegner	6,995
C. L. Wold Co.	7,121
David Graham	7,500

Receive Figure For Highway Work.

State Highway Commission Receives Figures for Three Pieces of Road Construction and Bridge Work.

(By Special Wire.)

SACRAMENTO, CAL., Dec 27th 1915.—Bids were received today by the State Highway Commission for the construction of two pieces of the State Highway in Placer County, Highway in Tehama County and for a steel bridge in the Marin-Sonoma Counties District. Following are the low bidders on each piece of work. All bids were below the Engineer's estimate.

Tehama County from Corning to

Friermuth & Price

Civil Engineers & Surveyors

Crocker Building

San Francisco, California

The Scenic Line

Direct to

Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.

Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.

Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.

Write for descriptive folder.

Oakland Antioch & Eastern Railway

San Francisco Depot Key Route Ferry

E. R. Hoerchner

Attorney-at-Law

Phone Garfield 2856

Phelan Bldg. San Francisco

Proberta (II-Teh-7-A and 3-B), about 10.2 miles in length, to be paved with Portland cement concrete.

Taylor & Berliner, Willits..$61,282.

Placer County, from Roseville to Penryn (III-Pla-17-A), about 7.5 miles in length, to be paved with Portland cement concrete.

G. W. Conners, Eureka..$38,207.10

Placer County, from Penryn to Auburn, (III-Pla-17-B), about 6.5 miles in length, to be paved with Portland cement concrete.

A. C. McLean Constr. Co., 320 Market, San Francisco...$30,815.60

Sonoma and Marin Counties, across Petaluma Creek at Green Point (IV-Son-Mrn-8-A), a bridge comprising a steel bascule span 148 feet long, two concrete and steel approach spans each about 80 feet long, and about 1122 feet of creosoted pile trestle.

Healy-Tibbitts Constr. Co., 9 Main, San Francisco.....$89,791

Detail Bids For State Highway.

Complete Bids For State Work in Placer, Tehama, Sonoma and Marin Counties As Opened Dec. 27th.

The following is a complete list of the bids received by the State Highway Commission on December 27th for highway construction in Placer and Tehama Counties and for bridge construction in Marin-Sonoma Counties.

Placer Co. Div. 3 Route 17, Sec. A.

Seabury B. Peterson, S. F.	$52,092.00
M. Blumenkranz, Stockton	39,915.20
W. A. Dontanville, Salinas	45,969.80
G. W. Conners, Eureka	38,207.10
Spring Constr. Co., Berkeley	39,137.40
Marin Rock Co., San Anselmo	44,638.50
W. A. Kettlewell & Sons, Kingsburg	52,238.55
George S. Benson & Sons Los Angeles	38,958.00
A. C. McLean Constr. Co., S. F.	36,224.80
M. Jacinto, Sacramento	50,486.00
F. A. Marshall, Berkeley	44,941.40
T. M. Olney, Oakland	47,359.95
Whitlock & Gorrill, Oakland	43,414.40

Engineer's Estimate, $43,198.14.

Materials furnished by State: Pipe railing, reinforcing steel, corrugated pipe, Portland cement, sand and coarse aggregate. Total $37,388.52.

Tehama Co., Div. 2, Route 7 and 3, Sec. A and B.

J. F. Fitzpatrick, Sacramento	$75,497.10
Whitlock & Gorrill, Oakland	68,882.80
C. L. Shaad, Williams	74,291.38
T. M. Burns, Sacramento	70,435.90
Bates, Borland & Ayer, Oakland	75,790.10
A. C. McLean Constr. Co., S. F.	66,967.85
Tieslau Bros., S. F.	81,315.80
W. A. Kettlewell & Sons, Kingsburg	73,619.90
Marin Rock Co., San Anselmo	69,704.20
Taylor & Berliner, Willows	61,282.00
C. H. & A. W. Gorrill, S. F.	78,162.30
Palmer & McBryde, S. F.	77,901.00

Engineer's Estimate, $78,497.91.

Materials furnished by State: Pipe railing, reinforcing steel, corrugated pipe, Portland cement. Total, $35,983.28

Placer Co., Div. 3, Route 17, Sec. B.

S. B. Peterson, S. F.	$49,283.00
G. W. Conners, Eureka	35,314.00
W. A. Dontanville, Salinas	48,678.25
M. Jacinto, Sacramento	51,661.00
Marin Rock Co., San Anselmo	42,075.70
W. A. Kettlewell & Sons, Kingsburg	44,629.15
George S. Benson & Sons, Los Angeles	39,416.80
J. A. Marshall, Berkeley	44,335.20
A. C. McLean Constr. Co., S. F.	30,814.60
Spring Constr. Co., Berkeley	38,203.60

Engineer's Estimate, $43,276.80.

Materials furnished by State: Pipe railing, reinforcing steel, corrugated pipe, Portland cement, sand and coarse aggregate. Total $32,440.50.

Sonoma and Marin Counties, Div. 4. Route 8, Sec. A., Steel Bridge.

Healy, Tibbitts Con. Co., S. F.	$89,791
Charles E. Cotton, S. F.	114,600
California Constr. Co., S. F.	107,627
Ross Constr. Co., Sacramento	99,650
Thomson Bridge Co., S. F.	114,163
S. B. Peterson, S. F.	112,958
McLeran & Peterson, S. F.	94,574
J. D. Hannah, S. F.	99,500
Midland Bridge Co., Kansas City, Mo.	118,255

Engineer's Estimate, $94,460.32.

Materials furnished by State: Portland cement, sand and coarse aggregate rubble rock, if used. Total $10,367.80.

LOS ANGELES AND SOUTHERN CALIFORNIA

REINFORCING STEEL — Cost not stated. Los Angeles, Cal. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Bids will be received by the Department of Public Service up to 4 p. m. of January 11, 1916, for furnishing the city with approximately 500 tons of reinforcing steel for use in the construction of tunnels, etc., in the San Francisquito Canyon, in accordance with specifications No. P-55, which may be obtained at the office of the secretary, 506 Knickerbocker Bldg. Bids will be received for a price f. o. b. factory.

BRIDGES—9 steel and reinforced concrete. Cost not stated. Engineer, County Surveyor Johnson and Mayberry & Parker. Owners, Santa Barbara County. Sketches of nine bridges that are being designed by Engineer Fred Johnson, State street, Santa Barbara, and E. L. Mayberry, of Mayberry & Parker, engineers of Los Angeles, who are associates in the work with Johnston, are now in the hands of the State Highway Commission for approval. The construction of these bridges will practically complete the construction of the state highway through Santa Barbara County. Plans are also underway in the same offices for the construction of the Quemada bridge which is to be built over the Quemada stream, about 25 miles north of Santa Barbara. The bridge was estimated by the engineer to cost $50,000. The Quemada bridge will have two 100-foot spans and approaches making the total length of the bridge about 400 feet. The plans for the Sheep Camp bridge are now about complete and will be forwarded to the State Highway Commission in one week. Bids for the construction of these bridges will be called for on the approval of the plans.

BRIDGE — Reinforced concrete and steel. Cost not stated. San Bernardino, Cal. Engineer, County Surveyor, San Bernardino. Owners, San Bernardino County. Bids will be received by the Board of Supervisors up to 11 a. m. of January 17, 1916, for the construction of a steel bridge and concrete substructure (bids to be in one lump sum on substructure complete, including excavation, and separate bid in one lump sum for supersiructure complete), known as Barton avenue bridge over San Timoteo creek, near Redlands

Junction in the Fifth Supervisorial District. Certified check for 10 per cent must accompany each bid. L. R. Patty is the County Clerk.

APARTMENT HOUSE—4 story and base, reinforced concrete, $100,000. Los Angeles, Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, Dr. T. N. Jamison. Location, Euclid avenue near Colorado, covering an area of 75 by 150 feet. First floor will contain stores. Upper floors arranged for two and three room apartments with wall beds and private baths. Interior finish pine and hardwood veneer with some hardwood floors. Steam heat, automatic elevator, hot water system and vacuum cleaning. Bath rooms finished in tile. Marble and tile wainscot in the entrance vestibule. Exterior faced with cement plaster. Plans being prepared.

HOSPITAL—2 and 4 story and base, reinforced concrete and brick, $130,000. San Bernardino, San Bernardino Co., Cal. Architect, A. Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. Will consist of a four-story administration building with two two-story wings and a two-story extension. Interior finish pine and hardwood and white enamel. Tile floors and wainscot. Steam heat, elevator service, oil burning equipment, hot water supply and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures being taken. Bids to be opened on January 18th.

CITRUS EXPERIMENT STATION—Brick, frame and concrete, $50,000. Riverside, Riverside Co., Cal. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owners, University of California. The plans provide for an administration building to cost about $37,000; residence for the director to cost $11,000; residence for the superintendent to cost $3,000, and several barns and other outbuildings. The main building will be a two-story structure, 60 by 150 feet with two one-story and basement wings, each 50 by 50 feet. It will contain the general offices, library, assembly room, chemical and plant laboratories, etc. The residence for the director will be two stories and the one for the superintendent a one-story bungalow. The construction will be of hollow tile or brick with plastered exteriors, tile roofs, pine and hardwood trim and floors.

Contracts Awarded.

SCHOOL GROUP—3, 1 and 2 story and base. Class A construction, $182,-028. Los Angeles, Cal. Architects, Norman F. Marsh and Herbert C. Howard, Broadway Central Bldg., L. A. Owners, Jefferson High School District Contractor, J. F. Atkinson, Story Bldg., L. A. Contract price, $182,028.

SUBWAY CONSTRUCTION — Reinforced concrete, $56,700. Los Angeles, Cal. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Bent Bros., Central Bldg., L. A. Contract price, $56,700.

HIGHWAY CONSTRUCTION — 13.43 miles, $33,892.28. Riverside, Riverside Co., Cal. Engineer, County Surveyor, Riverside. Owners, Riverside County. Contractors, Brashear-Burns Co., F. W. Van Nuys Bldg., L. A. Contract price, $33,892.28.

WAREHOUSE—7 story and base, reinforced concrete, $56,954. Los Angeles, Cal. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Peck & Hills. Contractors, National Freproofing Co., Central Bldg., L. A. Contract price, $56,954. Subcontracts will be it.

SEATTLE AND WASHINGTON

CHURCH—1 story and base, reinforced concrete, $75,000. Seattle, Wash. Architect, George Foote Dunham, Lumbermen's Bldg., Portland. Owners, Fourth Church of Christ, Scientist. Location, corner of 7th and Seneca streets. Will contain main auditorium, reading rooms, study and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass windows. Steam heat. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—2 story and base, brick, $40,000. North Bend, Wash. Architects, Stephen & Stephen, New York Bldg., Seattle. Owners, Town of North Bend. Will contain a number of standard sized class rooms and an auditorium. Interior finish pine with maple floors in the class rooms. Steam heat housed in separate building. Exterior faced with pressed brick. Plans being prepared.

"Laboratory Tests of a Consolidation Locomotive" by E. C. Schmidt, J. M. Snodgrass, and R. B. Keller has just been issued as Bulletin No. 82 by the Engineering Experiment Station of the University of Illinois. This bulletin presents the results of a series of laboratory locomotive tests, which constitute the first work of the recently established locomotive testing laboratory of the University of Illinois. The tests were made on a typical consolidation locomotive loaned to the University of Illinois by the Illinois Central Railroad, and the data secured and the results derived threfrom are presented and analyzed in detail. Since this is the first series of tests conducted in the new laboratory, the bulletin includes a description of the laboratory equipment and the methods of testing employed.

The locomotive was first tested in the condition in which it was received from service. It was then subjected to certain repairs, and again fully tested. The main purpose of the tests was to determine the general performance of the locomotive and the performance of its boiler and engines after the repairs were made and when the locomotive was in excellent condition. The secondary purpose was to study the effect of some of these repairs upon the locomotive's performance. The locomotive was worked during the tests throughout a range of speed corresponding to that which would ordinarily prevail in service. At each of the various speeds the endeavor was made to vary the cut-off throughout as wide a range as the capacity of the boiler or of the grates would permit. All tests were made with the throttle wide open.

The maximum amount of dry coal fired per hour was 11,127 pounds or 224.5 pounds per square foot of grate per hour. The maximum equivalent evaporation per hour was 57,954 pounds or 17.65 pounds per square foot of heating surface per hour. The University of Illinois equipment makes possible the collection of all stack cinders and the information relative to cinder losses which is presented shows these losses to have ranged from 3 to 16 per cent of the weight of the dry coal fired for what might be considered ordinary service conditions and to have amounted to 27.4 per cent of the weight of the dry coal fired during one test under extreme conditions of firing and draft.

Copies of Bulletin No. 82 may be obtained from Chapman and Hall, Ltd., 11 Henrietta street, Coven Garden, London, England.

Mr. City Official:

A proposal ad in the **"Building and Engineering News"** will bring you inquiries and real competition on your public work; that's what you want!

IDEAL HOME EXHIBITION IN SYDNEY.

[Consul General J. I. Brittain, Sydney, Australia.]

The leading exhibits at the "Ideal Home Exhibition" held at the Sydney town hall in October were bathtubs with automatic heating devices, electrical goods, gas cooking stoves, vacuum cleaners, oscillating beds, furniture, floor coverings, pianos, potted plants, exhibits of wall boards shown in various colors, glass lamps and shades demonstrating the semi-indirect system of lighting, clothes wringers, washing machines, churns, electric motors, lamps, toasters, irons, sewing machines, refrigerators, dish-washing machines, aluminum goods, patent roofing, etc.

The leading demonstrated American lines were various electrical exhibits, gas cooking stoves, oscillating wall boards, sanitary goods, vacuum cleaners, fireless cookers, and electric light demonstrating the semi-indirect system of lighting. It is doubted whether there has been a similar exhibition in sydney where American products were so numerously displayed. If American manufacturers place their lines with live firms who can exhibit the goods and unostentatiously pass out descriptive reading matter, the American trade would undoubtedly increase.

HARBOR EXTENSION AT MACASSAR, DUTCH EAST INDIES.

[Far Eastern Review.]

Shipping and commercial circles in Macassar have received word from the harbor board that the Government has sanctioned the construction of the boat harbor planned some time ago, as well as a northern extension of 1,247 feet to the 2,559 feet long sea wharf now in course of completion for sea-going vessels. As a result of the above, 1916 will see Macassar with the old 1,673-foot pier, the new boat harbor, and a wharf measuring 3,806 feet in length for large vessels.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
No.	Owner	Contractor	Amt.
3665	Workman	Workman	20000
3666	Fillipis	Glaser	800
3667	Sylvia	Sylvia	3000
3668	Beardsley	Beardsley	650
3669	Born	Born	4500
3670	Moeller	Leigh	2600
3671	Huelter	Leigh	2600
3672	Johnson	Johnson	2900
3673	Same	Same	2900
3674	Keenan	Keenan	5000
3675	Same	Same	5000
3676	Goodfellow's	W'm Hrdwd	500
3677	Connell	Connell	1000
3678	Bollman	Musto	1275
3679	Same	Bradley	3300
3680	Mahoney	Zelinsky	1070
3681	S. P. Co.	Eaton	——
3682	Newell	Higginson	9430
3683	Same	Same	7960
3684	Same	Same	8160
3685	Geggers	Cook	1250
3686	Cooper	St. Francis	4500
3687	Arlett	Arlett	11000
3688	Craig	Parry	1900
3689	Brunig	Forbes	1800
3690	Thorne	Marlin	2900
3691	Schmidt	Schmidt	800
3692	Campbell	Campbell	400
3693	Christiansen	Owner	3000
3694	Sherry	Liebhart	1250
3695	Podesta	Trevia	14660
3696	Pacific-Union	Henderson	8279
3697	Same	Cal Art Wire	2815
3698	Same	Forderer	1550
3699	Same	Musto	2200

BRICK FACTORY

(3665) SW SEVENTH 175-2 SE Harrison. One-story and mezzanine brick factory.

Owner.....Workman Packing Co., 180 Erie, San Francisco.

Architect...Smith O'Brien, Humboldt Bank Bldg., San Francisco.

Day's work. COST, $20,000

BRCK BAKE OVEN

(3666) SW KEARNY AND UNION. Install brick bake oven.

Owner.....V. Fillipis, 21 Columbus Ave., San Francisco.

Architect...None.

Contractor..J. P. Glaser & Co., 2070 Union, San Francisco.

COST, $800

FRAME FLATS

(3667) E NINETEENTH AVE 100 N Clement. Two-story and basement frame (2) flats.

Owner.....A. M. Sylvia, 371 30th Ave., San Francisco.

Architect...None.

Day's work. COST, $3000

FRAME DWELLING

(3668) W TWENTY-SIXTH AVE 100 S Geary. One-story and basement frame dwelling.

Owner.....J. H. Beardsley, 522 26th Ave., San Francisco.

Architect...None.

Day's work. COST, $650

FRAME FLATS

(3669) N CARL 180 W Stanyan. Two-story and basement frame (2) flats.

Owner.....S. A. Born Bldg. Co., 660 Market, San Francisco.

Architect...E. G. Bolles, 660 Market, San Francisco.

Day's work. COST, $4500

FRAME DWELLING

(3670) E TWENTY-FIFTH AVE 25 N California N 25xE 95. All work for two-story 5-room frame dwelling.

Owner.....Gustave Moeller, 24th Ave and Clement, San Francisco

Architect...Gustave Moeller.

Contractor. Leigh & Schultz, 419 21st Ave., San Francisco.

Filed Dec. 24, '15. Dated Dec. 16, '15.

Frame up	$650
Brown coated	650
Completed and accepted	650
Usual 35 days	650
TOTAL COST,	$2600

Bond, none. Limit, 90 days from Dec. 16. Forfeit, none. Plans and specifications, none.

FRAME DWELLING

(3671) E TWENTY-FIFTH AVE 50 N California N 25xE 95 O L 95. All work for two-story frame dwelling.

Owner.....Frederick Huelter, 557 10th Ave., San Francisco.

Architect...None.

Contractor..Leigh & Schultz, 419 21st Ave., San Francisco.

Filed Dec. 24, '15. Dated Dec. 16, '15.

Frame up	$650
Brown coated	650
Completed and accepted	650
Usual 35 days	650
TOTAL COST,	$2600

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications, none.

FRAME DWELLING

(3672) E TWENTY-SECOND AVE 100 N Clement. Two-story and basement frame dwelling.

Owner.....Johnson & Johnson, 818 14th Ave., San Francisco.

Architect...None.

Day's work. COST, $2900

FRAME DWELLING

(3673) E TWENTY-SECOND AVE 125 N Clement. Two-story and basement frame dwelling.

Owner.....Johnson & Johnson, 818 14th Ave., San Francisco.

Architect...None.

Day's work. COST, $2900

FRAME RESIDENCE

(3674) SW GREEN AND SCOTT. Two-story and basement frame residence.

Owner.....C. J. Keenan, 20 Broderick, San Francisco.

Architect...None.

Day's work. COST, $5000

FRAME RESIDENCE

(3675) W SCOTT 250 S Green. Two-story and basement frame residence.

Owner.....C. J. Keenan, 20 Broderick, San Francisco.

Architect...None.

Day's work. COST, $5000

ALTERATIONS

(3676) NO. 1170 MARKET Alter restaurant.

Owner.....Goodfellow's Grotto, Prem.

Architect...None.

Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., San Francisco.

COST, $500

FRAME DWELLING

(3677) SW MEDA 125 W Otsego. One story and basement frame dwelling.

Owner.....T. C. Connell, 815 54th, Oakland.

Architect...None.

Day's work. COST, $1000

MARBLE WORK

(3678) SE BRANNAN AND FOURTH 137-6 on Brannan by 275 on Fourth. Marble work for three-story and basement reinforced concrete warehouse.

Owner.....The John Bollman Co., Battery & Commercial, S. F., by Lange & Bergstrom, Sharon Bldg., S. F.

Architect...Chas. Peter Weeks, Mutual Bank Bldg., S. F.

Contractor..Jos. Musto Sons-Keenan Co., 565 North Point, S. F.

Filed Dec. 27, '15. Dated Dec. 21, '15.

On or before 10th of each month	75%
Usual 35 days	25%
TOTAL COST,	$1275

Bond, limit, forfeit, none. Plans and specifications, none.

(3679) METAL FURRING, FRAMING and lathing on above.

Owner.....Bradley & O'Reilly, 180 Jessie, San Francisco

Filed Dec. 27, '15. Dated Dec. 17, '15.

Payments same as above.....

TOTAL COST, $3300

Bond, limit, forfeit, none Plans and specifications, none.

PAINTING, ETC.

(3680) N GREEN 153-8 W Octavia N 127-6xW 29-6. Painting, varnishing and lincrusta for three-story frame apartments.

Owner.....Della B. Mahoney, 1830 Green, San Francisco.

Architect...August Nordin, Mills Bldg, San Francisco.

ontractor..R. Zelinsky, 77 Clementina, San Francisco.

Filed Dec. 27, '15. Dated Dec. 7, '15.

Exterior painted 2nd coat and interior 1st coated and lincrusla hung	$401
Completed and accepted	401
Usual 35 days	268
TOTAL COST,	$1070

Bond, $535. Sureties, Marion I. Cohn and Jas. S. O'Brien. Limit, as fast as possible. Forfeit, $10. Plans and specifications filed.

DRIVEWAYS

(3681) SIXTH, ALAMEDA AND MINnesota. All work for two asphalt

macadam driveways on rock foundation on property and between tracks belonging to owner in vicinity, known as Hay Yard, approximately 60,000 square feet.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..Eaton & Smith, 407 11th. San Francisco.
Filed Dec. 27, '15. Dated Nov. 24, '15.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $10.85 per sq. ft.
Bond, $3500. Surety, California Casualty Co. Limit, forfeit, none. Plans and specifications filed.

FRAME AND BRICK RESIDENCE
(3682) LOT 17 BLK 2817 Forest Hill Court. All work for two-story and basement and attic frame and brick veneer residence.
Owner.....Newell-Murdoch Realty Co. 30 Montgomery, S. F.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Dec. 28, '15. Dated Dec. 27, '15.
Frame up and roof boards on..$2357
Brown coated 2357
Completed and accepted..... 2358
Usual 35 days..... 2358
TOTAL COST, $9430
Bond, $4715. Sureties, J. H. McCallum and E. O. Benner. Limit, 90 days from filing. Forfeit, $5. Plans and specifications filed.

FRAME RESIDENCE
(3683) LOT 15 BLK 2817 Forest Hill Court. All work for two-story, basement frame residence.
Owner.....Newell-Murdoch Realty Co. 30 Montgomery, S. F.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Dec. 28, '15. Dated Dec. 27, '15.
Frame up and roof boards on..$1975
Brown coated interior & exterior 1975
Completed and accepted..... 1975
Usual 35 days..... 1975
TOTAL COST, $7900
Bond, $3950. Sureties, J. H. McCallum and E. O. Benner. Limit, 90 days from filing. Forfeit, $5. Plans and specifications filed.

(3684) LOT 13 BLK 2817 Forest Hill Court. All work for two-story, basement and attic frame residence.
Owner.....Newell-Murdoch Realty Co. 30 Montgomery, S. F.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Dec. 28, '15. Dated Dec. 27, '15.
Frame up and roof boards on..$2040
Brown coated interior & exterior 2040
Completed and accepted..... 2040
Usual 35 days..... 2040
TOTAL COST, $8160
Bond, $4080. Sureties, J. H. McCallum and E. O. Benner. Limit, 90 days from filing. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(3685) S SANTA MARINA 50 W Prospect. One-story and basement frame dwelling.
Owner.....Minnie Geggers, 1353 Folsom, San Francisco.
Architect ...None.
Contractor..Albert Cook, 635 Minna, San Francisco.
COST, $1250

FRAME DWELLING
(3686) E SAN LEANDRO WAY 355 N St. Francis Boulevard. Two-story and basement frame dwelling.
Owner.....C. E. Cooper, 404 Foxcroft Bldg., San Francisco.
Architect ...H. H. Gutterson, 80 Post, San Francisco.
Contractor..St. Francis Home Bldg. Co. 80 Post, San Francisco.
COST, $4500

CONCRETE APARTMENTS
(3687) E POWELL 77-6 N Washington Three-story and basement concrete (6) apartments.
Owner.....Arthur Arlett, Call Bldg, San Francisco.
Architect ...B. G. McDougall, Sheldon Bldg., San Francisco.
Day's work. COST, $11,000

FRAME DWELLING
(3688) W SAN BRUNO 170 S Goettingen. One-story and basement frame dwelling.
Owner.....M. A. Craig, 222 Raymond, San Francisco.
Architect ...None.
Contractor..T. H. Parry, 222 Raymond, San Francisco.
COST, $1900

FRAME MACHINE SHOP
(3689) S BRANNAN 200 W Fourth. One-story frame machine shop.
Owner.....Robert Brunig, 516 Brannan, San Francisco.
Architect ...None.
Contractor..R. J. H. Forbes, 1050 Monadnock Bldg., S. F.
COST, $1800

FRAME CANNERY
(3690) SE RICARD & BARNEWALD. Three-story and basement frame cannery.
Owner.....R. Thorne and H. F. Crawford, 26th & York, S. F.
Architect ...None.
Contractor..A. Marlin, 272 Lee Ave., San Francisco.
COST, $3900

FRAME DWELLING
(3691) W ANDERSON 75 N Powhattan One-story and basement frame dwlg.
Owner.....J. C. Schmidt, 91 Ellsworth San Francisco.
Architect ...None.
Day's work. COST, $800

ALTERATIONS
(3692) No. 1709 Turk. Alter shop and office.
Owner.....D. Campbell, Premises.
Architect ...None.
Contractor..Mark Campbell & Son, 787 McAllister, San Francisco.
COST, $400

FRAME RESIDENCE
(3693) E ARGUELLO BOULEVARD 44 S Carl. Two-story and basement frame residence.
Owner.....John Christiansen. 348 Carl, San Francisco
Architect ...Koenig & Christiansen, 914 Humboldt Bk Bldg., S. F.
Day's work. COST, $3000

PAINTING, ETC.
(3694) NE LAKE AND TWENTY-second Ave E 57-6xN 100. Painting, Imperial waterproofing of face brick work, staining, decorating, etc., for two-story Class "C" dwelling.
Owner.....John H. Sherry, Clay and Davis, San Francisco.
Architect ...Nathaniel Blaisdell, 255 California, San Francisco.
Contractor..Chas. A. Liebhart, 29 Dame San Francisco.
Filed Dec. 29, '15. Dated Dec. 27, '15.
Exterior has 2 coats and interior 1 coat.....$460
Completed and accpeted..... 478
Usual 35 days..... 312
TOTAL COST, $1250
Bond, $625. Sureties, Jno. A. Schalich and Frederick Drewes. Limit, 60 days. Forfeit, $20. Plans and specifications filed.

CONCRETE GARAGE
(3695) N PACIFIC 87-6 E Powell E 75 xN 129. All work except grading and furnishing storage tanks for one story and basement reinforced concrete garage.
Owner.....G. B. and Ed Podesta, 1236 Powell, San Francisco.
Architect ...P. Righetti, Phelan Bldg., San Francisco.
Contractor..Trevia & Pasqualetti, 32 Harwood Alley, S. F.
Filed Dec. 29, '15. Dated Dec. 22, '15.
Basement walls poured and 1st story floor slab in place....$2724.50
1st story walls poured ready for setting steel trusses..... 2724.50
Galvanized iron work of roof completed 2724.50
Completed and accepted..... 2724.50
Usual 35 days..... 3762.00
TOTAL COST, $14,660.00
Bond, $7300. Sureties, G. Trevia, G. B. Pasqualetti, Angelo V. Garassino and D. C. Trevia. Limit, 75 days. Forfeit, none. Plans and specifications filed.
NOTE:—1st Report Dec. 10th, No. 3523

ALTERATIONS
(3696) NE POST AND STOCKTON. Concrete, carpentry, lathing, plastering, glazing and painting for alterations to club building.
Owner.....Pacific-Union Club, California and Mason, S. F.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..W. D. Henderson, Monadnock Bldg., San Francisco.
Filed Dec. 30, '15. Dated Dec. 28, '15.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $8279
Bond, $4150. Surety, Massachusetts Bonding & Insurance Co. Limit, Mar. 1, 1916. Forfeit, $15. Plans and specifications filed.

(3697) ORNAMENTAL IRON WORK on above.
Contractor..California Artistic Metal & Wire Co., 365 7th, S. F.
Filed Dec. 30, '15. Dated Dec. 28, '15.
Payments same as above.....
TOTAL COST, $2815
Bond, $1500. Surety, National Surety Co. Limit, March 1, 1916. Forfeit, $10. Plans and specifications filed.

(3698) SHEET METAL WORK ON above.
Contractor..Forderer Cornice Wks, 269 Potrero Ave., S. F.
Filed Dec. 30, '15. Dated Dec. 28, '15.
Payments same as above.....
TOTAL COST, $1550
Bond, $775. Surety, U. S. Fidelity & Guaranty Co. Limit, March 1, 1916. Forfeit, $10. Plans and specifications filed.

(3699) MARBLE WORK ON ABOVE.
Contractor..Joseph Musto Sons-Keenan Co., 565 North Point, S. F.
Filed Dec. 30, '15. Dated Dec. 28, '15.
Payments same as above.....
TOTAL COST, $2200
Bond, $1100. Sureties, Mario and Maria Adam Musto. Limit, March 1, 1916. Forfeit, $10. Plans and specifications filed.

INCORPORATIONS.

Mason Street Theatre Co. Capital Stock, $100,000; subscribed, $40; shares, $10 each. Directors—J. T. Fleming, M. Horan, E. E. Smith, D. Greenan, 1 share each. Place of business, S. F.

International Printing Co. Capital Stock, $25,000; subscribed, $30; shares, $10 each. Directors—L. Lacaze, G. Tooker, P. A. Beyerot, 1 share each. Place of business, San Francisco.

Taylor Morgan Co. Capital Stock, $10,000; subscribed, $3; shares, $1 each. Directors—F. Taylor, C. C. Morgan Jr., E. Maruret, 1 share each. Place of business, San Francisco.

Franklin Lunch Co. Capital Stock, $1000; subscribed, $6; shares, $1 each. Directors—J. H. O'Neil, T. J. Scally, A. Dougherty, O. Dougherty, J. E. Conners, J. Frickett, 1 share each. Place of business, San Francisco.

LEASE.

Dec. 24, 1915—NO. 98 EDDY NE Cor. Mason. F G Hollingbery to Peter Metz. 3 years. $1200.

Dec. 27, 1915—W VAN NESS AVE 152 S Turk 14x78. Alice A Myers to H J Ap stoiopulos and Geo H Rezos. 5 years. $5100.

Dec. 27, 1915—NO. 1251 TWELFTH Ave. Mrs J W Higgins to J H Colen or John H Colen 1 years. $35.

NOTICE OF NON-LIABILITY.

Dec. 27, 1915—W CASTRO N1-6 N 18th N 22-6xW 80. E B Swales as to improvements on leased property.

LEASES.

NOTICE OF NON-RESPONSIBILITY.

Dec. 24, 1915—N CALIFORNIA 77-9 12-100 W Second Ave N 107-8 4-10 m or l W 25 S parallel with Second Ave 110-2 4-10 m or l E 75-1 56-100. Albert Goldman, Laura Kline, Henrietta Steinman, Lewis G Goldman, Belle G Levy, Carrie G Fletcher and Louis Levy as to improvements on leased property.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED

Dec. 23, 1915—E ELEVENTH AVE 50 S Geary S 50xE 87-6. E P Kennedy to H C Keenan.....Dec. 23, 1915

Dec. 23, 1915—W TENTH AVE 75 S Judah. Congregational Church Extension Society of S F to A W Bryant.....Dec. 22, 1915

Dec 27, 1915—W CONNECTICUT 74-6 S Mariposa S 19-6xW 100. Mrs M Hencken to E J Montgomery....

Dec. 24, 1915—W LEAVENWORTH 82-6N Vallejo N 25x100. Arthur Stevens to whom it may concern .....Dec. 20, 1915

Dec. 21, 1915—E SEVENTH AVE 182-5S N Lake N 50xE 120. Emma C Morrison to E Ellingson .....Dec. 21, 1915

Dec. 21, 1915—W COMMONWEALTH Ave 145 S Euclid Ave 40x120. Aimee M Lennon and Milton B Lennon to J P Fletcher..Dec. 24, 1915

Dec. 24, 1915—SE GEARY AND 20th Ave 50x65. Thomas Hamill to whom it may concern.Dec. 24, 1915

Dec. 24, 1915—SW NINTH AVE (Sor 175 SE Newhall 25x100. Mrs Eugenie Galatoire to P H Madden .....Dec. 24, 1915

Dec. 24, 1915—NOS. 4632-34 EIGHTEENTH: Lot 10 Blk "B" Park Lane Tract. Sadie Lenhart to Jacob Witzelsberger.....Dec 17, 1915

Dec. 27, 1915—N THOMAS AVE 200 W Jennings W 25xN 100. George Ryan to whom it may concern .....Dec. 21, 1915

Dec. 27, 1915—SW EXCELSIOR AND Naples 25 on Excelsior by 100 on Naples; Ptn Lot 8 Blk 47. Excel Hd. Salvatore Basso to John G Grant.....Dec. 22, 1915

Dec. 28, 1915—SE VAN NESS AVE & Post — 109xS 120. The Concordia to Kiernan & O'Brien...Dec. 22, 1915

Dec. 28, 1915—SE NINETEENTH & Vermont E 50xS 100. John F Haner to whom it may concern.Dec. 28, 1915

Dec. 28, 1915—NE BRAZIL 50 SE London SE 25xNE 100 Ptn Blk 13, Excel Hd. Warren P Smith to whom it may concern..Dec. 28, 1915

Dec. 28, 1915—S JACKSON 173.2 E Polk E 25 and of irregular depth. Laura and Elfrieda Heineberg to Alfred T Morris.....Dec. 27, 1915

Dec. 28, 1915—W FOURTH & CLEMentina SW 155 NW 80 SW 25 SE 80 NE 25. Louis Laubscher to Wade & Carlsen and Ahlbach & Mayer... .....Dec. 24, 1915

Dec. 28, 1915—LOT 6 BLK 28 Map of Blks 27 to 34, Forest Hill Extension. Otto W Brown to whom it may concern.....Dec. 27, 1915

Dec. 28, 1915—W THIRD AVE 125 S Balboa 25x120. Mrs Bridget Mulligan to Otto Carson....Dec. 22, 1915

Dec. 28, 1915—W SEARS 335 S Sickles Ave S 25x103-6; Lot 22 Blk 8, Oscar Heyman Sub Blk 8 and all Blk 21, West End Map No. 2, Victor Bjors to whom it may concern.Completed —

Dec. 29, 1915—NO. 791 CASTRO. Mary A Smith to Albert Disston..... .....Dec. 18, 1915

Dec. 29, 1915—W LEAVENWORTH 78 S Vallejo S 19-5xW 137-6. Antonio Colombo to Ernesto Barulti.. .....Dec. 21, 1915

Dec 29, 1915—COMG. ABOUT 130 E of NE Ocean Ave and Otsego N 213-8 E 25-2 S 200 W 30. Robert Greenock Jr to Val Franz & Son .....Dec. 28, 1915

Dec. 29, 1915—S TWENTIETH 55 E Sanchez E 25xS 85-6. James Baird to whom it may concern.Dec. 28, 1915

Dec. 29, 1915—E TWENTY-SECOND Ave 50 S Lake 25xS7-6. Annie Green to A J Falvey...Completed —

Dec. 29, 1915—E TWENTY-SECOND AVE 75 S Lake 25xS7-6. Annie Green to A J Falvey...Completed —

Dec. 29, 1915—E TWENTY-SECOND Ave 25 S Lake 25xS7-6. Annie Green to A J Falvey....Completed —

Dec. 29, 1915—E NINETEENTH AVE 75 N Balboa N 25xE 82-6. Martin and Hans Nelson to whom it may concern.....Dec 29, 1915

Dec. 30, 1915—SE NINETEENTH AND Utah E 50x100. Jas F Haner to whom it may concern..Dec. 28, 1915

Dec. 30, 1915—S LINCOLN WAY 107-6 W 47th Ave W 25x100. R M Bacon to whom it may concern.Dec. 11, 1915

Dec. 30, 1915—SW CALIFORNIA & Mason W 77-6xS 60. S W Morshead to Geo Elder.....Dec. 21, 1915

Dec. 30, 1915—W VALENCIA 40 S 15th W 137-6xS 50. Bothin Real Estate Co to Barrett & Hilp..... .....Completed —

Dec. 30, 1915—S LOMBARD 100 E Buchanan. Stefano Crosetti to Paul De Martini.....Dec. 27, 1915

Dec. 30, 1915—LOT "D" S. A. Born Bldg Co. resbdvn No. 1, Seacliff. F J S Conlan to S A Born Bldg Co .....Dec. 30, 1915

LIENS FILED

San Francisco

Dec. 23, 1915—S SIXTEENTH 178-8 W Guerrero W 25xS 110. Central Electric Co vs Edw and Margaret Perry $151.50

Dec. 29, 1915—W SIXTH AVE 200 N Anza N 25xW 120. E E Gillon vs Margarethe and Michael Schlegelmilch $218.71

Dec. 30, 1915—S FILBERT 67-6 W

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing: Telephone Oakland 3735.

OVER 65 YEARS' EXPERIENCE

PATENTS

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MUNN & Co. 364 Broadway, New York
Branch Office, 625 F St., Washington, D. C.

Steiner W 80 S 137-6 E 65 NE 140 m or l. Sunset Hardware Co vs Henry A Lehfeldt, E M Reagh and H Lewis $434.79

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Dec. 20, 1915—N THIRTY-EIGHTH 306.13 E Market E 32xN 139.50, Okd. W P Fuller & Co to Wm J Conrad $42.76

Dec. 22, 1915—S TWENTY-SECOND 360 E Webster E 51xS 162, Okd. Panama Lumber & Mill Co to D Miller $3929.61

Dec. 27, 1915—N PINE bet. Sansome and Leidesdorff; No. 332 Pine. W & J Sloane Corp to McCreery Est Company .....

Dec. 24, 1915—E DOLORES 60 S 20th S 41-6xE 30. W P Goss to Roderic A Troyer, Geo Peck and Arthur W Draper (as Peck & Draper) ...$178

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
2730	Tamm	Tamm	1700
2731	Smith	Smith	1500
2732	Crummey	Owner	4000
2733	Pacific G & E Co.	Hopper	1100
2734	Hayward	Coward	3800
2736	Friberg	Friberg	1600
2740	Wingate	Mallanen	2500
2741	Pac Shr Wh	Owner	1500
2742	Same	Clinton	4000
2745	Luckenback	Armstrong	500
2746	Ferguson	Wells	1200
2747	Newby	Newby	1000
2748	Murata	Murata	1800
2749	Belden	Whitney	400
2752	Rutherford	Greuner	10000
2753	Sueel	Sueel	3500
2754	Mitchell	Newby	3200
2755	Baker	Baker	900
2756	Strang	Strang	2750
2757	Fry	Fry	2000
2758	Cords	Cords	1500
2759	Morse	Smith	2500
2760	Kittredge	Kittredge	400
2761	Woodard	Woodard	2500
2762	Oakland	Littlefield	16975

DWELLING
(2730) E POMONA 300 S Main, Albany
Owner.....Hannah Tamm.
Architect ...None.
Contractor..Chas. Tamm, 1511-A Fairview, Oakland.
COST, $1700

DWELLING
(2731) E MADISON 80 N Buchanan, Albany. One-story 5-room dwelling.
Owner.....O. G. Smith.
Architect ...None.
Day's work. COST, $1500

DWELLING
(2723) E TWENTY-FOURTH AVE 75 S E-21st, Oakland. Two-story 9-room dwelling.
Owner.....Wm. R. Crummey, 1627 25th Ave., Oakland.
Architect ...None.
Day's work. COST, $4000

SHED
(2733) W CASTRO, if extended S 80 S First W 456.03xS300, Oakland. All work for shed.
Owner.....Pacific Gas & Electric Co., 13th and Clay, Oakland.
Architect ...None.
Contractor..M. E. Hopper & Sons, 90 Glen Ave., Oakland.
Filed Dec. 27, '15. Dated Dec. 20, '15.
Completed 75%
Usual 35 days..... 25%
TOTAL OST, $1100
Bond, $550. Surety, U. S. Fidelity & Guaranty Co. Limit, 40 days. Forfeit, none. Plans and specifications filed

DWELLING AND GARAGE
(2734) LOT 4 BLK 6 Map Thousand Oaks, Oakland Tp. All work for one story five-room dwelling and garage.
Owner.....Katharyne M. and Frank E. Hayward, 2961 Linden, Berkeley.
Architect ...None.
Contractor..Joseph Coward, 6081 Claremont Ave., Oakland.
Filed Dec. 27, '15 Dated Dec. 27, '15.
Each month $42.50
TOTAL COST, $2800
Bond, none. Limit, forfeit, none. Specifications only filed.

DWELLING
(2736) E BROWN AVE 235 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....Amanda Friberg, 2176 48th Ave., Oakland.
Architect ...None.
Contractor..Chas. Friberg, 2176 48th Ave., Oakland.
COST. $1600

TRANSFORMER HOUSE
(2741) TWELFTH AND UNION, Oakland Concrete transformer house.
Owner.....Pacific Coast Shredded Wheat Company.
Architect ...None.
Day's work. COST, $1500

BOILER HOUSE
(2742) TWELFTH AND UNION, Oakland. Concrete boiler house.
Owner.....Pacific Coast Shredded Wheat Company.
Architect ...L. B. Hobart, Crocker Bldg., San Francisco.
Contractor..Clinton Constr. Co., 140 Townsend, San Francisco.
COST, $4000

DWELLING
(2743) N FORTY-NINTH 140 E Lawton Ave., Oakland. One-story five-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2200

WAREHOUSE
(2745) W EIGHTY-SIXTH AVE 120 N Birch, Oakland. Warehouse.
Owner.....M. J. Luckenback, North Cragmont.
Architect ...None.
Contractor..G. Armstrong, 1639 Alcatraz Ave., Oakland.
COST, $500

DWELLING
(2746) SE NINETY-SIXTH AVE AND Cherry, Oakland. One-story five-room dwelling.
Owner.....Geo. Ferguson, 1928 96th Ave., Oakland.
Architect ...None.
Contractor..E. E. Wells, Auseon Ave., Oakland.
COST, $1200

DWELLING
(2747) S EDGERLY 210 E 55th Ave., Oakland. One-story 4-room dwlg.
Owner.....P. A. Newby, 1431 79th Ave., Oakland.
Architect ...None.
Day's work. COST, $1000

HOT HOUSE
(2748) S CLEMENT 200 E High, Oakland. Hot house.
Owner.....J. Murata, 728 High, Oakland.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
(2749) 4204 PIEDMONT AVE., Oakland. Alterations.
Owner.....H. B. Belden, 4991 Coronado Ave., Oakland.
Architect ...None.
Contractor..A. L. Whitney, 1618 27th Ave., Oakland.
COST, $400

APARTMENTS
(2752) E PIEDMONT AVE 80 N Yosemite, Oakland. Two-story 20-room apartments.
Owner.....V. Z. Rutherford, Thomson Bldg., Oakland.
Architect ...None.
Contractor..W. M. Greuner, 310 Thomson Bldg., Oakland.
COST, $10,000

BRICK STORE
(2753) S SEVENTH 100 W Webster, Oakland. One-story brick store.
Owner.....Mary Sueel, 2525 Adeline, Oakland.
Architect ...None.
Day's work. COST, $3500

HOUSES AND GARAGES
(2754) LOTS 8 AND 9 BLK "B" Map Edgerly Tract on S Edgerly 155 E 55th Ave., Oakland. All work for two houses and double garages.
Owner.....J. Ed. Mitchel.
Architect ...None.
Contractor..P. A. Newby by W. L. Newby.
Filed Dec. 28, '15. Dated Dec. 24, '15.
Frames up on each house.....$350
Brown coated on each..... 350
Completed, each 350
30 days after, each..... 350
When each or both sold (each).. 200
TOTAL COST, $3200 and material in wind mill and tower.
Bond, $1600. Sureties, A. B. Chase and M. F. Newby. Limit, forfeit, plans and specifications, none.

WAREHOUSE
(2755) W MAGNOLIA 50 N 22nd, Oakland. One-story warehouse.
Owner.....J. C. Baker, 5056 Fairfax Ave., Oakland.
Architect ...None.
Day's work. COST, $900

DWELLING
(2756) S LAKE VIEW AVE 150 W Elliott, Oakland. Two-story 7-room dwelling.
Owner.....V. N. Strang, 1521 9th, Ala.
Architect ...None.
Day's work. COST, $2750

DWELLING
(2757) E SHAFTER AVE 160 S Hudson, Oakland. One-story five-room dwelling.

Owner.....F. W. Fry, 5380 Shafter Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(2758) E THIRTY-THIRD AVE 175 N Farnum, Oakland. One-story five-room dwelling.
Owner.....Emma Cords, 1481 34th Ave., Oakland.
Architect ...None.
Contractor..Alfred Cords, 40 Bowie, Piedmont.
COST, $1500

DWELLING
(2759) N FLEMING AVE 650 W Seminary Ave., Oakland. Two-story 9-room dwelling.
Owner.....F. F. Morse, 2735 Seminary Ave., Oakland.
Architect ...None.
Contractor..O. G. Smith, 4402 Brookdale Ave., Oakland.
COST, $2500

ALTERATIONS
(2760) NO. 1310 WASHINGTON, Oakland. Alterations.
Owner.....Kittredge & Co., Prem.
Architect ...None.
Days work. COST, $400

(2761) W PARK BLVD. 160 N El Centro, Oakland. Two-story 7-room dwelling.
Owner.....Mabel Woodard, 4031 Brighton Ave., Oakland.
Architect ...None.
Contractor..E. W. Woodard, 4031 Brighton Ave., Oakland.
COST, $2500

ADDITION
(2762) N FOOTHILL BLVD. opp 46th Ave., Oakland. Two-story frame addition to Fremont High School.
Owner.....City of Oakland.
Architect ...John J. Donovan, Dalziel Bldg., Oakland.
Contractor..R. W. Littlefield, 626 33rd, Oakland.
COST, $16 975

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
2735	Cannon	Coward	4150
2737	Wickson	Wickson	5000
2738	Worrisle	Crane	500
2739	Clough	Vove	1200
2743	Pfrang	Pfrang	2200
2744	Hale	Jones	500
2763	Peet	Walker	100000

FRAME DWELLING & GARAGE
(2735) PTN LOTS 21, 22 AND 25 BLK 3 Map Berkeley Square, Bkly. All work for two-story frame dwelling and garage.
Owner.....Kingsley W. Cannon.
Architect .. None.
Contractor. Joseph Coward, 6081 Claremont Ave., Oakland.
Filed Dec. 27, '15. Dated Nov. 10, '15. None given except payable direct to Contractor .....
TOTAL COST, $4150
Bond, none. Limit, 90 days. Forfeit, none. Specifications only filed

DWELLING
(2737) E BRIDGE ROAD 300 N Tunnel Road, Berkeley. Two-story 8-room dwelling.
Owner.....Mary E. Wickson, 2726 College Ave., Berkeley.
Architect ...None.
Contractor..G. G. Wickson, 2726 College Ave., Berkeley.
COST, $5400

ALTERATIONS
(2738) N VIRGINIA 150 W Scenic, Berkeley. Alterations and additions.
Owner.....W. Worrisle.
Architect ...None.
Contractor..C. B. Crane, 2695 Cedar, Berkeley.
COST, $500

SCHOOL
(2739) E Le ROY AVE 100 N Virginia, Berkeley. One-story 2-room school.
Owner.....Miss M. P. Clough, 2427 Prospect, Berkeley.
Architect ...A. L. and J. E. Lundy, 3 Franklin, San Francisco.
Contractor..G. H. Vove, Oakland.
COST, $1200

DWELLING
(2740) E JOSEPHINE 230 S Hopkins, Berkeley. One-story 5-room dwelling.
Owner.....Donald P. Wingate, 2330 Carlton, Berkeley.
Architect ...None.
Contractor..Otto W. Mailanen, 1726 10th, Berkeley.
COST, $2500

ADDITION
(2744) NO. 4230 BOWDITCH, Berkely. Addition and repairs.
Owner.....C. E. Hale, Premises.
Architect ...None.
Contractor..Jones & McGovern, 2218 Los Angeles Ave., Berkeley
COST, $500

FACTORY, ETC.
(2763) S CARLTON W Fifth, Berkeley. Three-story mill construction factory and boiler.
Owner.....Peet Bros. Mfg Co., Kansas City, Kansas.
Architect ...None.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $100,000

Building Contracts Awarded

Alameda

2750	Danton	Demartini	1000
2751	Myers	Greene	400

ADDITION
(2750) NO. 442 PACIFIC AVE., Alameda. Addition.
Owner.....E. Danton, Premises.
Architect ...Mastro Pasqua, 2600 Grand Ave., Alameda.
Contractor..Fred Demartini & Co., 22 Julius, San Francisco.
COST, $1000

ALTERATIONS
(2751) NO. 3257 ENCINAL AVE., Alameda. Alterations.
Owner.....Myers & White, 13th and Webster, Oakland.
Architect ...None.
Contractor..C. J. Greene, 3255 Encinal Ave., Alameda.
COST, $400

ARCHITECT'S CERTIFICATE.

Dec. 29, 1915—Lloyd A Rally has filed his certificate of architecture.

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Dec 29, 1915—NE EIGHTH AND Broadway N 124 6 E 80 N 6 in. E 70 S 50 W 50 S 75 W 100, Okd. James Moffitt Estate Co as to improvements on leased property .

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Dec. 2, 1915—FREMONT AVE near Los Altos (known as The Red Barn Property). Wm Cranston to E G Finlay.....Oct., 20, 1915
Dec. 4, 1915—10 ACRES bounded by Lincoln, Benton, Gemakle and Figel Survey being SW Cor. Lincoln and Benton Sts., Town of Santa Clara. F J Sullivan to Kelly Bros.....Nov. 15, 1915
Dec. 8, 1915—LOT 7 BLK 4 Shottenhamer Sbdvn, San Jose. J A Wagner to J A Wagner.....Dec. 7, 1915
Dec. 9, 1915—STEPHENS CREEK Road near Winchester Road near San Jose. M A Di Fiore to Frank Peres.....Dec. 3, 1915
Dec. 11, 1915—E TWELFTH ST., bet. William and Reed Sts., San Jose. L E Appleton to C Thomas.....
.....Dec. 8, 1915
Dec. 16, 1915—ON MIDDLEFIELD Road near Lytton Ave and being Lot 4 Bk 48 of J S Larkin Sub of Bk 48, Palo Alto. San Jose Home Builders to Sibley & Richards.....
.....Dec. 11, 1915
Dec. 16, 1915—E LAKE SHORE AVE at 60 N Rosal Ave Okd. Fernanda N Somps by E W Woodard to E W Woodard.....Completed
Dec. 16, 1915—PTN LOT 52 Map Bowie Pty Piedmont. Abraham Bloom to Alfred Cords.....Dec. 16, 1915
Dec. 16, 1915—NO. 5652 E side Oak Grove Ave bet. College Ave and Forest. Okd. Mrs Mary May Gray to H S Butler.....Dec. 16, 1915
Dec. 16, 1915—SE REDWOOD ROAD SW 62.16 Galindo SW 62.16xSE 129.50, Okd. Millie M Lowe to whom it may concern.....Dec. 16, 1915
Dec. 17, 1915—LOTS 21, 22 AND 25 BLK 13 Breed & Brandcrofts Resbdvn ptn North Alameda Tract, Ala. William Black by A L Haley to whom it may concern..Dec. 8, 1915
Dec. 24, 1915—LOT 120 Map Novo Piedmont, Piedmont. V N Strand and Lillian Neudeck to whom it may concern.....Dec. 22, 1915
Dec. 24, 1915—LOT 2 BLK "F" Map Northbrae Terrace, Bkly. Kate Whinnery to Mason-McDuffie Co.....Dec. 22, 1915
Dec. 27, 1915—E VENTURA 100 N Marin, Albany. J S Killam to M P Brasch.....Dec. 27, 1915
Dec. 27, 1915—E VENTURA 60 N Marin, Albany. J S Killam to M P Brasch.....Dec. 27, 1915
Dec. 27, 1915—LOT 20 BLK "F" Map Adeline Street Pty, being a subdivision Blks A and F of Northern Addition to City of Oakland. Scott Hagland to J Johnson. Nov. 30, 1915
Dec. 27, 1915—LOT 2 Map Sylvan Crest Tract, Okd. John Plumer Co to G H Hollenbeck..Dec. 9, 1915
Dec. 28, 1915—PTN LOTS 26 AND 27

Blk 3 Map Havenscourt, Oakland. Harry C Knight to whom it may concern.....Dec. 28, 1915

Dec. 28, 1915—LOT 5 BLK 4 Dwight Way Terrace, Bkly. W N Taylor to J G Taylor.....Dec. 20, 1915

Dec. 28, 1915—SE CHERRY AND 96th Ave, being N 30 Lot 13 Blk 14 Warner Tract, Okd. George Ferguson to E E Wells..Dec. 27, 1915

Dec. 28, 1915—PTN LOTS 126 AND 127 Fourth Avenue Terrace Ext, Okd. R H Macfarlane to Fletter & Winlund.....Dec. 27, 1915

Dec. 28, 1915—E 5 LOT 9 and W 30 Lot 10 Blk 7, Map Mathews Tract, Bkly. F W Kline to Chas A Werner.....Dec. 27, 1915

Dec. 29, 1915—E NINETY-SIXTH AV 40 S Cherry, being S 20 Lot 13 and N 15 Lot 12 Blk 14, Warner Tract, Okd. George Ferguson to E E Wells.....Dec. 27, 1915

Dec. 29, 1915—LOT 10 Claremont Home Tract, being N Ayala 120 S Rose, Okd. F R Jordan to whom it may concern.....Dec. 28, 1915

Dec. 30, 1915—W THOMAS, bet. Napa and Prospect, being N 9 Lot 18 all Lot 19 and S 7 Lot 20 Blk "F" Map Broadway Terrace, Okd. E L Higgins to whom it may concern.....Dec. 28, 1915

Dec. 30, 1915—E THIRD AVE 40 S E 25th S 65xE 130, Okd. William G Gilmour to whom it may concern.....Dec. 18, 1915

Dec. 30, 1915—W FLEMING AVE 605 from Seminary Ave, being Lot 34 College Court, Okd. F F Morse to O G Smith.....Dec. 21, 1915

Dec. 30, 1915—E THIRD AVE 110 N 14th N 140xE 150, Okd. Wm G Gilmour to The Turner Co.....Dec. 10, 1915

Dec. 30, 1915—LOT 18 BLK "D" Map Waterside Terrace, Alameda. Mark T Cole to whom it may concern.....Dec. 29, 1915

LIENS FILED

ALAMEDA COUNTY.

Dec. 18, 1915—NW GLEN AVE 40 SW Linda Ave SW 42xNW 100, Oakland H Peterson Co vs Francis M Garcia and C H Garcia.....$51.70

Dec. 18, 1915—NE E FOURTEENTH 140 SE 28th Ave SE 132xNE 200, Okd. H G Newman, $216.50; J F Shrader, $159.75 vs Frank Bartels and Mrs. E M Heim.....

Dec. 21, 1915—W El CERRETO AVE 148 S Magnolia S 35xW 90, Oakland Tp. Henry Tabel vs S T Meyers.....$48.41

Dec. 22, 1915—SE BRUCE AND BANcroft Way S 33⅓xE 80, Bkly. N W Parker vs Carl Ericsson and Kingston Investment Co.....$66

Dec. 22, 1915—E BRUCE 66⅔ S Bancroft Way S 33⅓xE 80, Bkly. N W Parker vs Carl Ericsson and R L Langworty.....$66

Dec. 22, 1915—LOT 13 Map Nova Piedmont, Piedmont. Hogan Lumber Co vs Leo L Nichols $1413.57

Dec. 23, 1915—N ARLINGTON AVE 297.97 W Grove W 40 N 102.65 NE 19 SE 102.08, Okd. Wm Champion vs J J Benton and Gustave Johanson.....$43

Dec. 23, 1915—E SHAFTER AVE 100 S Hudson S 50xE 100, Okd. Chas C Riggle vs O R Wood.....$103.50

Dec. 23, 1915—N MONTANA 275 W Curran Ave W 40xN 100, Oakland. Pacific Mfg Co vs A B Chase..$570.14

Dec. 24, 1915—E BRUCE 66⅔ S Bancroft Way S 33⅓xE 80, Berkeley. Sunset Lumber Co vs Carl Ericksson and R L Langworthy....$204.02

Dec. 24, 1915—NO. 2744 DOHR, Bkly. M R Garcia vs G E Morrill and B H Rogers.....$60

Dec. 24, 1915—SE BRUCE AND BANcroft Way S 33⅓xE 30, Bkly. Sunset Lumber Co vs Carl Ericksson and Kingston Investment Co..$272.72

Dec. 24, 1915—LOT 10 BLK 6 Map Mathew Tract, Bkly. Sunset Lumber Co vs Carl Ericksson & Kingston Investment Co.....$34.09

Dec. 27, 1915—SW SACRAMENTO & Francisco S 100xW 80, Bkly. T D Sexton vs E M Reagh.....$468.72

Dec. 27, 1915—LOT 58 BLK 4575 Map Alta Piedmont. S J Cinnamond vs W L Porter $90

Dec. 30, 1915—S BURNETT 152 W Mable, being Lot 1 Blk "B," San Pablo Tract, Bkly. V N Lindahl, $154.70; Conrad A Mattson, $99; W R Champion, $34 vs M Haiman and G Johanson .....

Dec. 30, 1915—LOT 27 BLK 2 Map Alton Park, Oakland Tp. Hogan Lumber Co vs Geo W Morrow..$138.21

Dec. 30, 1915—N MONTANA 275 W Curran Ave W 40, Okd. Hunter Lumber Co vs A B Chase and Augusta E Chase.....$241.38

BUILDING CONTRACTS.

SAN MATEO COUNTY.

FRAME BUNGALOW

LOT 63 BLK 7, Stanford Park, North Palo Alto. All work for one-story frame bungalow.

Owner.....Irene V. Putnam.

Architect ...None.

Contractor. Harry H. Putnam.

Filed. Dec. 23, '15. Dated Dec. 1, '15.

Frame up $875

When plastered 875

When finished 875

Usual 35 days..... 875

TOTAL COST, $3500

Bond, limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

SAN MATEO COUNTY.

RECORDED ACCEPTED

Dec. 11, 1915—LOT 15 BLK 8, Burlingame. Laurence M Lalanne to Arthur Elvin.....Dec. 10, 1915

Dec. 11, 1915—PTN LOTS 15 AND 16 Blk 8, Burlingame. Laurence M Lalanne to Arthur Elvin.Dec 10, 1915

Dec. 20, 1915—LOT 42 BLK 10 Crocker Estate Tract. Arthur G Duncan and L Abraham to L L Allen & C Knight..... .....Dec. 17, 1915

Dec. 23, 1915—LOT 11 BLK 21, Eastern Adi'n to Redwood City. D Solari to Anderson Bros.....Dec. 20 1915

BUILDING CONTRACTS

FRESNO COUNTY.

BRICK SCHOOL BUILDING

S ½ OF LOT 9 Kingsburg Col. All work for brick high school building.

Owner.....Kingsburg Joint Union High School.

Architect ...Anton Johnson, 1127 I St., Fresno.

Contractor..Trewhitt & Shields Co., 435 Rowell Bldg., Fresno.

Filed Dec. 22, '15. Dated Dec. 10, '15.

On 1st and 15th of each month 75%

Usual 35 days.....Balance

TOTAL COST, $40,700

Bond, $30,575. Surety, Maryland Casualty Co. Limit, Aug. 18, 1916. Forfeit. $20. Plans and specifications filed.

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

Dec. 27, 1915—NO. 1031 I ST., Fresno. W O Miles as to improvements on leased property .....

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED

Dec. 28, 1915—W 50 FEET LOTS 1, 2 and 3 North Park, Fresno. Chas L Fink to C V Smith....Dec. 28, 1915

BUILDING CONTRACTS.

MARIN COUNTY.

FRAME DWELLING

SAUSALITO, Marin Co. All work for two-story and basement frame dwlg.

Owner.....Elizabeth Shoobert, Sausalito.

Architect ...None.

Contractor..Watson Bros., San Anselmo.

Filed Dec. 20, '15. Dated Dec. 10, '15.

Rafters in place.....$648

When plastered 648

When completed 648

Usual 35 days..... 651

TOTAL COST, $2595

Bond, none. Limit, 80 working days. Forfeit, none. Plans and specifications filed.

LIENS FILED.

MARIN COUNTY.

RECORDED AMOUNT

Dec. 27, 1915—NOVATO, Marin Co. Henry Wagner vs Carl A Babb.$15.40

Dec. 27, 1915—NOVATO, Marin Co. F A Hill vs Carl A Babb.....$349.10

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

BRICK BUILDING

LOT 3 BLK 25, City of Richmond Tract, Richmond. Excavating, grading, filling, concrete, brick, plumbing, and drainage, electric wiring, tar and gravel roofing, finished cement floors, marble work, lathing, plastering, painting, steel and wrought iron work, carpenter, rough and finish hardware for one-story brick business building.

Owner.....C. F. Lindsey, Rust, Cal.

Architect ....J. B. Ogborn, 822 Macdonald Ave., Richmond. (non-certificated).

Contractor..Carl Overaa, 1808 Roosevelt Ave., Richmond.

Filed Dec. 18, '15. Dated Dec. 9, '15.
Brick work completed.....$553.75
Roof, rough plumbing, wiring and plastering completed..... 503.75
Building completed and notice filed 503.75
Usual 35 days..... 503.75
TOTAL COST, $2065.00
Bond, none. Limit, within 40 days. Forfeit, none. Plans and specifications filed.

THREE BUNGALOWS
CERTAIN PLOT of land set aside for these bungalows in Hercules, Contra Costa County. Excavating, concrete and cement work, brick work, plumbing, painting, tinners' work, carpenter work, electric, roofing, etc., for three double bungalows with garages (frame structure) covered with rustic siding and shingles.
Owner.....Hercules Powder Co., Hercules, Cal.
Architect ...James T. Narbett, 704 Macdonald Ave., Richmond.
Contractor..Carl O. Johnson, Berkeley.
Filed Dec. 23, '15. Dated Dec. 21, '15.
75% of valuation of all work installed when work is 25% completed .....
75% of valuation of all work installed when work is 25% completed, less amount of payment No. 1 .....
75% of valuation of all work installed when work is 75% completed less paments Nos. 1 and 2
75% of work completed less payments 1, 2 and 3.....
Usual 35 days.....Balance
TOTAL COST, $7250
Bond, $7625. Surety, Southwestern Surety Insurance Co. Limit, within 45 days. Forfeit, none. Plans and specifications filed.

LIENS FILED

CONTRA COSTA COUNTY.

RECORDED AMOUNT
Dec. 2, 1915—LOTS 6 AND 7 BLK 10 W Town of Rodea. Joseph Light vs Frank Freitas.....$67.75
Dec. 2, 1915—LOTS 6, 8 AND 10 BLK 25 W Town of Rodea. Joseph Light vs Heser Kronick.....$20
Dec. 2, 1915—LOTS 5, 7 AND 9 BLK W (25W) Town of Rodea. Joseph Light vs J W Slate.....$16.25
Dec. 2, 1915—LOTS 28 AND 30 BLK 25 W of Town of Rodea. Joseph Light vs Manuel Spindler.....$18
Dec. 14, 1915—TIDE AND TULE lands from right of way of S. P. Co., Martinez. Martinez Lumber Co vs Inez Wilbourne.....$94.24
Dec. 15, 1915—LOT 2 BLK 3 Original Survey of Town of Martinez. Silas Gould vs Emile Collatis.....$474.06

BUILDING CONTRACTS

SACRAMENTO COUNTY.

MASONRY BUILDING
E 30.22 feet Lot 4, L, M, 7th and 8th Sts., Sacramento. One-story masonry building.
Owner.....Henry Feldhusen, 1127 8th St., Sacramento.
Architect ...None.
Contractor..C. J. Guth, 1516 27th St., Sacramento.
Filed Dec. 24, '15. Dated Dec. 24, '15.
COST, $4950

ALTERATIONS
NO. 1023 J ST., on Lot 6, I, J, 10th and 11th Sts., Sacramento. Remodel two-story brick store and office.
Owner.....Skelton Imp. Co., Premises.
Architect ...None.
Contractor..G. Edward Hook, 718 18th St., Sacramento.
COST, $2400

ALTERATIONS
NO. 1114 J ST., on S 20 feet Lot 4, K, L, 7th and 8th Sts., Sacramento. Remodel one-story brick store.
Owner.....A. I. Staples.
Architect ...None.
Contractor..Chas. Vanina, 2022 M St., Sacramento.
COST, $400

FRAME DWELLING
NO. 321 TWENTY-SECOND ST., on Lot 304 C, D, 22nd and 23rd Sts., Boulevard Park, Sacramento. One-story five-room and bath frame dwelling with concrete foundation.
Owner.....Emily Valine, 2417 15th St., Sacramento.
Architect ...None.
Contractor..C. Valine, 2417 15th St., Sacramento.
COST, $1800

OIL BURNERS
H ST., bet. 6th and 7th Sts., on Lots 2 and 3, H, I, 6th and 7th Sts., Sacramento. Place 1500 gallon storage oil tank and install 2 oil burners in County Jail.
Owner.....Sacramento County.
Architect ...None.
Contractor..Latourette-Fical Co., 3431 Sacramento Ave., Sacramento. COST, $700

BRICK FOUNDATION
NO. 320 SIXTEENTH ST., on S ½ N ½ Lot 5, C, D, 15th and 16th Sts., Sacramento. Place one-story frame dwelling on new brick foundation.
Owner.....W. H. Sexton, 312 16th St., Sacramento.
Architect ...None.
Day's work. COST, $600

ALTERATIONS
NO. 1118 TENTH ST., on N ¼ Lot 5, K, L, 9th and 10th Sts., Sacramento. Remodel brick store building at milk depot.
Owner.....Annie Heisen.
Architect ...None.
Contractor..Henry Finnigan, 1019 U St., Sacramento.
COST, $450

OIL TANK
NO. 1118 TENTH ST., on N ¼ Lot 5, K, L, 9th and 10th Sts., Sacramento. Place oil tank and installation.
Owner.....Annie Heisen; A. B. Sylvia, Lessee.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
NO. 315 J ST., on W 20 feet Lot 7, I, J, 3rd and 4th Sts., Sacramento. Remodel two-story brick building.
Owner.....Eugene Wachhorst, 1629 M St., Sacramento.
Architect ...None.
Day's work. COST, $3000

ROOMS AND STORAGE
W 20 FEET LOT 7, I, J, 3rd and 4th Sts (rear); No. 315 J St., facing on alley, Sacramento. Two-story brick rooms and storage.
Owner.....Eugene Wachhorst, 1629 M St., Sacramento.
Architect ...None.
Day's work. COST, $——

ALTERATIONS
NO. 905 FOURTH ST., on S 20 feet of N 60 feet of Lot 1, I, J, 4th and 5th Sts., Sacramento Remodel two-story brick building.
Owner.....E. S. Wachorst, 1629 M St., Sacramento.
Architect ...None.
Day's work. COST, $400

FRAME FLATS
NO. 1609 TWENTY-FOURTH ST., on N ½ of S ½ Lot 1 Blk P, Q, 24 and 25th Sts., Sacramento. Two-story 5-room and bath frame dwelling (2 flats.)
Owner.....E. E. Sydenstricker, 2500 O St., Sacramento.
Architect ...None.
Day's work. COST, $3800

COMPLETION NOTICES.

SACRAMENTO COUNTY.

RECORDED ACCEPTED
Dec. 28, 1915—15 ACRES being part S. L. S 309 Grand Island. Thomas A Graham to A Van Zee. Dec. 14, 1915

RELEASE OF LIENS

SACRAMENTO COUNTY.

RECORDED AMOUNT
Dec. 23, 1915—S 60 FEET LOT 1, T, U 23rd and 24th Sts., Sacramento. Bartle Kreuzberger to Wm Murcell $72
Dec. 23, 1915—N ½ LOT "S" 3-4 of Lot 1, T, U, 23rd and 24th Sts., Sacramento. Batrle Kreuzberger to Wm Murcell and J W Haley..... .....$76.15

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Dec. 24, 1915—LOT 12, 2, 20, 32, 33, 45 48 and 50, Dye Chinatown Walnut Grove, Sacramento. Mito E Dye, Amy Brown, Corodon Dye and Sperry W Dye as to improvements on leased property.....

AUSTRALIAN DEMAND FOR AMERICAN GLASS GROWS.

[Consul General J. I. Brittain, Sydney, November 8.]

American manufacturers of plate, sheet, and wired glass have entered this market since the outbreak of war and are doing considerable business. The glass has proved very satisfactory, some qualities being pronounced better than the glass manufactured in Europe. The only complaint made are those concerning defective packing.

PROSPEROUS YEAR FOR MINES OF THE UNITED STATES.

The midyear review of mining conditions reported to the Secretary of the Interior on July 1 by the Director of the United States Geological Survey is well supported by the preliminary reports for the year submitted recently. The Geological Survey is making public its usual estimate of mineral production for 1915 in the form of a separate statement for each of the more important mineral products.

A review of these statements confirms Secretary Lane's comment of last July to the effect that the mining revival is in full swing. In the Western States alone the metal production shows an increase in value of more than $130,000,000 over the corresponding figures for 1914; and the year's increase in output for the principal metals measured in value is more than $250,000,000. Moreover it is not unreasonable to expect that when the full returns for all mineral products are compiled they will show that 1915 was the country's most productive year in the mining industry. The total may even reach two and one-half billion dollars.

In the response to bettered conditions the production figures for copper, iron and zinc show the largest increase.

Copper Beats All Records.

The copper mines passed all records for previous years, the 1915 output having a value of $236,000,000, or $83,000,000 more than the value of the production for 1911. The statistics and estimates received place the output of blister and Lake copper at 1,365,500,000 pounds or more than 120,000,000 pounds in excess of the largest previous production and eighteen per cent above last year's figures. Only twice in the history of copper mining has there been a larger increase in quantity of metal produced.

Large Increase in Iron.

The total shipments of iron ore from the mines in the United States in 1915 are estimated to have exceeded 55,000,000 gross tons, an increase over 1914 of more than 38 per cent. Based on the same price as received in 1914 this represents an increase in total value of about $27,645,000. The increase in pig iron is estimated at 6,500,000 tons, with a total increase in value of pig iron production of more than $120,000,000.

Zinc Records Also Broken.

The output of zinc (spelter) made from domestic ores was larger than ever before being about 425,000 tons worth $120,000,000 as compared with 343,418 tons in 1914, and increase of about 82,000 tons or nearly 25 per cent in quantity and of $85,000,000 in value. Production was increased during the latter half of the year, as the production during the first half was at the rate of 415,000 tons annually and at the rate of 436,000 tons during the last half.

The output of refined pig lead from domestic ores was about 515,000 tons worth about $48,500,000 as compared with 512,791 tons in 1914, an increase of only 2,500 tons in quantity but of $8,500,000 or 20 per cent in value. The production of antimonial lead was 20,550 tons as compared with 16,668 tons in 1914, an increase of 3,882 tons or 23 per cent in quantity and an increase in value of nearly $2,000,000.

Gold and Silver Increases.

The annual preliminary estimates on the production of gold and silver in the United States, made jointly by the United States Geological Survey and the Bureau of the Mint, are not yet complete, but early figures based on reports from the mines indicate an increase in mine production over that of 1914 of over $7,000,000 in gold, principally from Colorado, California, Alaska, Montana, and Idaho, and an increase in mine production of silver of fully 4,000,000 ounces, chiefly from Montana, Utah, and Arizona. This increase in gold production may bring 1915 up to the record year of 1909, when the gold output of this country was nearly $100,000,000.

Quicksilver also has had its best year in 1915. The quantity increased 25 per cent over 1914, but the value of the output more than doubled owing to the much higher prices. The estimated production was $20,681, flasks of 75 pounds each, valued, at the average price for the year—the highest in the last 40 years—at $1,768,225. In value, this domestic production was the highest since 1881 and in quantity the largest since 1912.

Small Changes in Coal.

The production of bituminous coal and anthracite in 1915 is estimated to have increased between 4 and 5 million short tons, or less than 1 per cent. The quantity of bituminous coal mined increased about 6½ million tons and that of anthracite decreased over 2 million short tons. Owing mainly to steady demands for export coal and for coke for steel making, the output in Pennsylvania, West Virginia, Kentucky, and Alabama increased over last year, but little change is recorded in other eastern States. The region west of Ohio, including the Mississippi Valley, shows a general decrease, Colorado being the only Western State to show betterment.

Connected with the coke industry was the completion during the last summer of a number of large plants for the recovery of benzol from by-product coke-oven gas. This gives the United States its first output of this material, so important as a raw material in the manufacture of high explosives and chemical dyes, and the amount of this product will be reported later.

Preliminary estimates of the total output of petroleum in the United States in 1915 indicate a slight increase over the corresponding output of 1914. It is believed that the total petroleum yield of the United States in 1915 amounted to 291,400,000 barrels, of which quantity it is also estimated that 267,400,000 barrels was marketed and 24,000,000 barrels placed in producers' field tankage during the year.

The sulphuric acid industry in 1915 presented interesting development. In spite of the abnormal demand and higher prices in the latter half of the year, much of the sulphuric acid had been contracted for or was consumed in the factories where made. The estimated production indicates an increase of 6½ per cent in the three common grades, but more than 100 per cent in the strongest grades.

The estimate of Portland cement output in 1915 indicates shipments from the mills of 86,524,500 barrels, an increase of one-tenth of one per cent over 1914. There was a slight decrease in production and this, with the appreciable decrease in stock, indicates a more conservative trend in the industry, which in the preceding few years showed a tendency to overproduction. Prices generally averaged a few cents lower per barrel in 1915 than in 1914, although toward the end of the year prices were substantially increased, and the outlook for 1916 is brighter than for several seasons.

Best Year in Western States.

Perhaps the most notable item in the year's record is the stimulation of metal mining in the Western States. Almost without exception the increases in production were large and in several States 1915 was the best year on record. In Arizona, which leads in copper, the output of that metal exceeded the previous record production of 1913. California continues to lead in gold and had the largest yield in 32 years, and with one exception in half a century. In Montana and Arizona record outputs of silver are reported and in Alaska the increased production of gold and especialliy copper made 1915 a much more prosperous year than even 1906 when Fairbanks and Nome were yielding their greatest returns of gold from bonanza placers.

GOVERNMENT OWNERSHIP JUSTIFIED.

U. S. Forester's Report Says National Forests Conserve Timber Resources and Water Power.

The annual report of the Forester of the Department of Agriculture made public recently comments on the Government ownership of water-power sites and timber as exemplified by the National Forest system. The financial burdens resting on private owners of uncut timber are held to have forced the manufacture of lumber without regard to market demands, and with consequent demoralization of the lumber industry and wasteful use of timber resources; while facts and figures regarding the water power situation are given to prove that more rapid development of water power in the West is mainly prevented by the lack of consumers, rather than by the absence of suitable legislation.

Water power permits taken out for National Forest projects, says the report, involve a total of 1,261,560 horsepower. Free permits cover 70,628 horsepower and the plants actually constructed or operating June 30 had an output capacity of 241,276 horsepower, the rentals paying $89,000 during the year. The report comments on the water power situation as follows:

"New legislation permitting the Government to grant a more secure tenure for the lands used, through the issuance of 50-year leases, would, without doubt, make the financing of power developments on the public lands both easier and cheaper, and is very desirable; but the main obstacle to more rapid development than that which is now taking place is not lack of a new law but lack of a broader market for power. It is at least doubtful if either an amended law or private ownership of the public power sites would result in any general or material increase in power development in the Western States in the immediate future. With rare and minor excep-

tions, existing power developments in these States are far in excess of market demands. The Forest Service is being constantly imported to extend periods of construction on power permits on the plea that there would be no market available for the power if the project were developed. The per capita use of water power in electrical development in the three Pacific and the eight Mountain States is far in excess of that in any other section of the United States, and more than five times the average for the United States, as a whole. The development of the Pacific states is about 180 horsepower, per thousand of population, and in the Mountain States 120 horsepower, with a balanced average of 160 horsepower. New England, which is next in order, has less than 40 horsepower per thousand of population, and the whole United States about 30 horsepower."

"The drop of thirty per cent in the demands for National Forest stumpage," the report goes on to say, "as indicated by the falling off in new sales, is a significant index of the unstable market for lumber and the serious conditions now obtaining in the forest-using industries." These conditions which are now the subject of a special study conducted by the Department of Agriculture in co-operation with the Federal Trade Commission and the Bureau of Foreign and Domestic Commerce, "are related primarily to the carrying of enormous quantities of raw material, exploitable only during a long period of time, in private ownership This load of uncut timber, with its far-reaching financial burdens, hampers or prevents the private operator from adapting his business to the changed conditions of his market and to the competitive factors of more or less recent development. Hence a tendency toward a lumber output governed not by the requirements of the country, but by the financial necessities of the owners of stumpage, with its resultant market demoralization and wasteful use of timber resources. Had the National Forests never been created, the conditions of trade depression and wasteful exploitation, detrimental alike to the interests of the lumber industry and the public, would have been markedly accentuated. The value of public ownership of a considerable part of the timber resources of the Nation has never been demonstrated more strikingly than by the results of private ownership now manifest."

Although large commercial sales fell off, due to the depressed condition of the lumber market, says the report, the number of sales to settlers, farmers, and small dealers at cost rates nearly doubled in number, while more than 40,000 free timber permits were issued, an increase of 549. The steady increase of this use, the Forester adds, indicates the importance of the National Forests to the communities in which they lie and the stability of the local demand for their products.

The report discusses in detail the work of the Forest Service during the fiscal year ended June 30 last, showing a general increase in all Forest activities except commercial timber sales. It predicts, however, a larger revenue from all sources for the fiscal year 1916, the general improvement in business conditions throughout the country having been already felt in the National Forests, as shown by an increase during the first three months of about $119,000 over the earnings of the same period last year. During the fiscal year, the total revenues were $2,481,469.35, an increase of $15,759.14 over 1914. Of the $5,662,094.13 provided by the regular appropriation for the Forest service, says the report, $5,281,000 was expended for protection, utilization, and improvements, the cost of protection being increased by an extraordinarily severe fire season which necessitated emergency expenditures that were partly provided for by a deficiency appropriation of $349,243. An additional sum of about $196,000 was spent under the law which permits 10 per cent of the benefits.

The expenditures include, says the report, the protection of resources which as yet can not be made to bring in cash returns, such as inaccessible timber, as well as those, such as watershed covering and recreational advantages, which yield great general benefits not, however, measurable in money values. In this connection, the report mentions that timber given free to settlers and others was worth more than $206,000, while that sold under the law at cost was worth $33,000 more than the Government got for it. The revenue also foregone by allowing free use of certain grazing lands, adds the report, is estimated to exceed $120,000, while a moderate charge for privileges that are free would bring in at least $100,000 more. All this, says the Forester, has never been entered on the credit side of the Forest Service ledger.

NATIONAL DEFENCE HIGHWAY PROPOSED.

Congressman William D. Stephens from Los Angeles, has introduced a bill for the construction of a National Highway, which will practically circle the United States.

Like all true sons of Los Angeles, Congressman Stephens proposed that the road start at Los Angeles, and after going through the States of Arizona, New Mexico, Texas, Louisiana, Mississippi, Alabama, Florida, Georgia, South Carolina, Virginia, District of Columbia, etc., to New York, thence on the westward swing through New York, Massachusetts, New Hampshire, Main, and from New York again westward through Pennsylvania, Ohio, Illinois, Wisconsin, Minnesota to Seattle, Wash., then south through Oregon, California touching at San Francisco and continuing down the coast to San Diego via Los Angeles.

Construction and maintenance is to commence and continue under the supreme authority of the President by U. S. Army Engineer Officers.

The Bill if adopted, will provide the following:

A National Highway circling the United States within its borders, and running strategically near the Atlantic, Pacific and Gulf Coasts, as well as our Northern and Southern Boundary lines.

A National Highway, to be used in times of peace by automobiles, auto trucks and other vehicles for commercial and healthful purposes.

A National Highway extraordinarily useful, when war threatens or we are attacked. Over it men in great numbers and munitions and supplies can be transported quickly to any point North, South, East or West.

A National Highway, 10,000 miles long, that will give work at good wages for many years to at least 100,000 American citizens in good times and to several times that number when times are hard.

A National Highway providing physical and mental drill for all manual and clerical employees thus fitting hundreds of thousands of young men for National defence and to be better heads of families.

Yours truly,
Wm. D. STEPHENS.

MARE ISLAND SEES CAUSEWAY NEED.

MARE ISLAND, Cal. Mare Island officials state that they hope the present Congress will set aside the sum of $700,000 for construction of a causeway and bridge between Vallejo and the navy yard and according to present plans that are now in the office of the bureau of yards and docks the proposed causeway will start at a point in the vicinity of Virginia street wharf on the mainland and touch at the present site of the Mare Island freight shed.

A bascule type of bridge will be located in the center of the causeway to allow large cruisers and even battleships to pass through the structure so that they can be berthed at the north end of the government plant.

The $700,000 expended on the causeway and bridge would be saved, it is claimed, in a very short time by the government in the transportation of freight between the mainland and Mare Island, and now that the local station has at last become a dreadnaught building plant the necessity for better freight shipping facilities are known to every official in Washington, D. C.

Pay Director F. T. Arms, U. S. N., general storekeeper at Mare Island, is one of the greatest boosters at the navy yard for the proposed causeway and all of the other officers are said to favor the scheme.

AMERICAN LUMBER FOR AUSTRALIA.

The present depression in the American lumber industry has greatly increased the interest in the export trade and its possible development. For this reason the Bureau of Foreign and Domestic Commerce has been sending out experts to study the possibilities of the most promising markets. The latest bulletin based on these investigations is "Australasian Markets for American Lumber," written by Franklin H Smith, who has been studying the lumber situation in the Far East and in Australia and New Zealand for a year or more.

Australia is particularly interesting to American lumbermen, because the island continent depends almost wholly on foreign supplies of soft, easily worked woods. The native timber is tough, difficult to season, and very hard to work. In normal times the total imports of timber are valued at $13,000,000, and of this quantity the United States furnishes about $7,000,000 worth, or more than half. American exports, however, consist mostly of

undressed timber, and Mr. Smith's report is concerned largely with the prospects of increasing our sales of dressed timber, which has heretofore come mainly from the Baltic regions. Since the war started Australians have not had steady intercourse with the Scandinavian countries and there have been increased sales of our dressed products. American flooring especially has had an opportunity to prove its undoubtedly good qualities.

A very interesting suggestion by Mr. Smith is that a serious attempt be made to popularize the American bungalow style of dwelling in Australia, and in that way broaden the field for American lumber. No type of house could be better adapted for the suburban sections of the larger cities, yet thousands of brick or stone houses have been put up and roofed with unsightly corrugated iron.

There are many other suggestions in the bulletin, as well as chapters on such important matters as tariffs, native timber resources, foreign trade, the principal lumber markets, and the lumber trade of New Zealand. The booklet is issued as Special Agents Series No. 109, and is sold at the nominal price of 5 cents by the Superintendent of Documents, Government Printing Office, Washington. Mr. Smith's other bulletins cover the lumber trade in the Philippines, Japan, China, and Indo-China, and there is one relating to the teak industry of Siam and Indo-China.—Commerce Reports.

PURE DRINKING WATER.

The geologic resources of greatest value to the health of communities is a supply of pure drinking water. It is generally recognized that a number of diseases, prominent among which are typhoid fever and amoebic dysentery—a disease more common in tropical climates but found also in the United States—are contracted through contaminated water or contaminated food. Therefore a supply of pure water will eliminate one of the sources of such infection.

It is highly desirable to obtain supplies of domestic water from sources other than the shallow wells, some of them open, that are found near many houses. The water obtained from deep wells has percolated through sands and other material for so great a distance that its impurities have been removed by filtration, and it possesses a sanitary value that con not well be overestimated, for such water is free from the bacteria causing typhoid fever and the protozoa causing amoebic dysentery, and its use obviates the necessity for shallow wells that may serve as a breeding place for Anopheles, the mosquito to which malarial infections is due.

Geological Survey's Work on Underground Waters.

The United States Geological Survey for a number of years has been prosecuting, largely in co-operation with the State surveys, a systematic study of the ground-water resources of all the Coastal Plain States. Reports have been issued, either by the Federal Survey or by co-operating State geological surveys, for Virginia, North Carolina, southeastern Arkansas and Louisiana, southern Illinois, southeastern Missouri, eastern Tennessee, Kentucky and Georgia, Florida, Alabama, Mississippi, northeastern Texas, the Black and Grand Prairie areas of Texas, and the area underlain by Tertiary formations in Texas south of the latitude of Jefferson and east of Brazos River. The manuscripts of paper on the ground-water resources of Delaware and Maryland, on the ground waters of northeastern Arkansas, and on the ground waters of La Salle and McMullen counties, Tex., have been completed and will be published during the next fiscal year, and additional studies of the ground waters of Mississippi are in progress. Comprehensive studies of the ground-water resources of the Coastal Plain of Texas west of Brazos River are also approaching completion.

Half Million Square Miles Covered.

With good health recognized as one of the great national assets, the extent of this study if underground-water resources furnishes a measure of its value to the public. Reports have been published covering 376,000 square miles in the Atlantic and Gulf States, reports on 27,000 square miles are completed though not yet published, field work has been completed on 50,000 square miles and work is contemplated to cover 16,000 square miles. These areas of nearly half a million square miles include the parts of the United States in which impure water supplies involve the greatest danger. The value of such surveys in conserving public health has already been demonstrated, for it has been noted that wherever an adequate supply of deep-well water has been obtained, typhoid fever, amoebic dysentery, and malaria have abated.

WINTER BUILDING OPERATIONS OFFER SOME ADVANTAGES.

Curtailing of Activity Is Called Largely Matter of Habit.

Work of More Skillful Mechanics is Available.

Architect Argues Better Construction Is Possible, as Moisture Absorption Is Less.

From The Detroit Free Press.

"When a concern if the importance of the Detroit Steel Products Company inaugurates a campaign for more building in winter, it would seem sufficient evidence of the feasibility of the scheme to cause general investigation of the merits af the proposition," says H. Jerome Darling, architect of Detroit. "The company could not afford to lend its name and efforts to such a proposition without careful investigation. The fact that winter building has been and is being successfully carried on, doubtless has led the company to believe there is an unjustified prejudice which deters winter building operations.

"The fact appears to be that it is simply a matter of evolution. The human race clings to a habit and will do things in a certain way simply because it was done in that way by the forefathers. The was a time when winter building was almost unheard of, but each year is gradually producing more winter work.

Decision Rests With Owner.

"The question of winter building is one that must of necessity be decided by the owner himself, and he is generally not sufficiently well informed to take the chance. All the facts must be put up to him in a form which he can readily understand before he will release his capital in a venture which to him would seem to promise more successful execution in warmer weather.

"All kinds of mason work are now carried on successfully at all times during the winter. Some of the very largest and most important buildings in Detroit were erected during the winter. Buildings of reinforced concrete construction, depending almost entirely upon concrete for support, are erected in the dead of winter. The Trussed Concrete building, opposite the post office building, is one of the many of this class which were erected during the coldest months of the year. Mortar will not set as rapidly in winter as in summer, but I am of the opinion—judging from demolished buildings which were erected in winter, and from the assurance of prominent mason contractors—that mortar used in winter will become more durable than mortar used in summer. One reason for this may be that brickwork laid in summer will absorb the moisture from the mortar before the mortar has had time to set.

Reduction of Cost Possible.

"It is an accepted opinion of the public in general that contracts for winter work can be let at a lower price than at any other time of the year; all things being normal. I am not alone in the belief that about 10 per cent of the cost of the building can be saved if contracts are let during the winter.

"If the owner's money is drawing low interest, it might be well for him to consider, with other savings, the greater earning capacity this same money would show invested in his proposition for the period that it would otherwise practically be lying idle.

"During warm weather rush seasons the contractor is forced to employ incompetent mechanics whom he weeds out in the winter when work becomes slack. The man who erects his building in the winter has the advantage of securing this higher class of workmanship. Furthermore, as the contractor and architect are not rushed with the same amount of work as in the summer, each can devote more of his individual time to the construction of the building.

Better Woodwork is Possible.

"All woodwork which enters into construction of a building is far superior when installed during cold weather, the atmosphere being much dryer than in summer. Much of the moisture in the form of rain which is absorbed by the rough woodwork during warm weather, becomes snow in winter and easily cleaned off before any material damage can be done. The moisture absorbed by the rough woodwork in summer will not dry out until sometime after the building is completed and decorated. When this moisture dries out floors and partitions often settle, causing cracks and other defects.

"One of the greatest objections to summer building is the absorption of moisture from the air by the interior wood finish. This interior finish is one of the most important features of a building, and greater care and skill must be employed in its installation than with any other part of a building. It is always subject to more close inspection as long as a building stands, and it is important that every precaution should be employed to preserve the highest class of workmanship in the buildings as a whole. The moisture absorbed by the finish woodwork in summer will dry out later and cause joints to open, doors to shrink, panels to crack, and the whole to assure the character of a building that literally has been thrown together. On the other hand, heat is maintained in the building erected in the winter and, as a result, moisture is kept out and the finish remains in a first class condition.

"The facts I have mentioned are some of the important influences working to produce a larger amount of winter building. I believe that when the public become aware of the advantages of winter construction, building operations will continue actively through all seasons of the year."

NEW GOVERNMENT PUBLICATIONS.

The Superintendent of Documents, Washington, D. C., announces that he has received in stock during the week ended December 11 the following new United States Government publications, which he will sell at the nominal prices affixed:

Customs Regulations of the United States, prescribed for the Instruction and Guidance of Customs officers, edition of 1915, published by the Division of Customs, Treasury Department. Covers regulations and requirements for importation of goods into the United States, embracing the amount of customs, methods of collecting, making out invoices and other papers, appraisements, general duties of customs officers, etc. Price, cloth, $1.

Woodsman's Handbook. Forest Service Bulletin 36.—Comprehensive work on log, timber, and board measurements, including the various standard rules such as Scribner's, Doyle's, Spaulding's, etc., with instructions for log scaling and measurement of standing timber, etc. Price, paper, 25 cents.

Land Drainage by Means of Pumps. Agriculture Department Bulletin 304.—Covers drainage reclamation, drainage in northern Europe, experiences in United States, pumping systems, including construction of levees, maintenance of plants, etc. Price, paper, 15 cents.

DIXIE HIGHWAY WILL JOIN NORTH AND SOUTH.

CHICAGO—Plans are being made to expend $6,931,000 during the coming year on the Dixie highway, an automobile route linking the North with the South, it was announced recently. The highway starts at Chicago and terminates at Miami, Florida.

The road has received substantial financial backing from fifty counties along the route. These counties have expended $1,765,000 for improving the highway in the last six months.

A huge light has been installed on Pikes Peak, 14,172 feet above sea level. Current is supplied from hydro electric generators on the peak. The light can be seen at Denver, seventy-five miles away.

Chester B. Loomis, M. E.
CONSULTING ENGINEER
Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing.
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Developments 503 Grant Bldg.
Construction Los Angeles, Cal.

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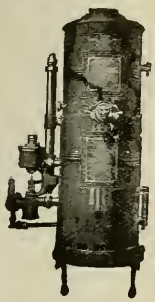

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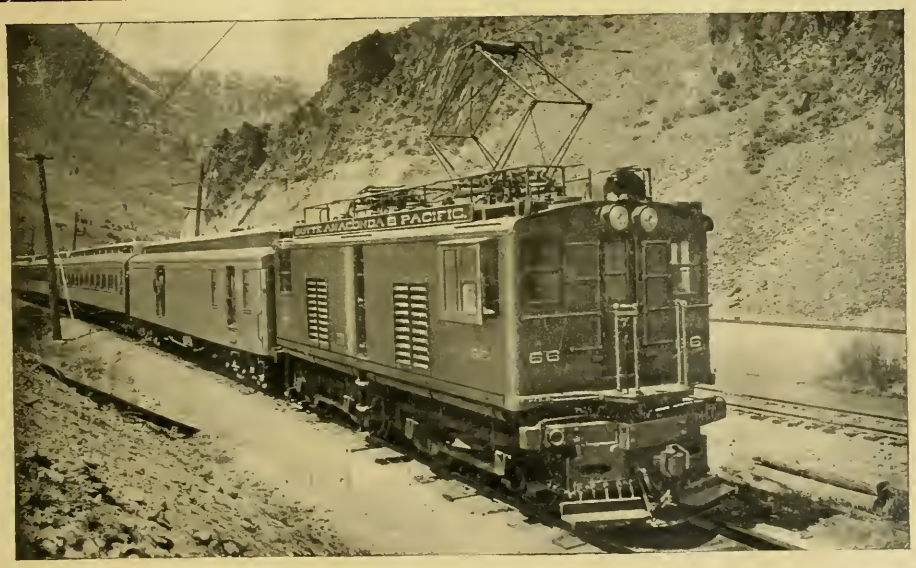

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January 12, 1916

Leading Articles in this Issue:

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By E. S. Johnson

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Telegraph Row at Huntington Beach.

Water Commission News.

Association of American Portland Cement Manufacturers.

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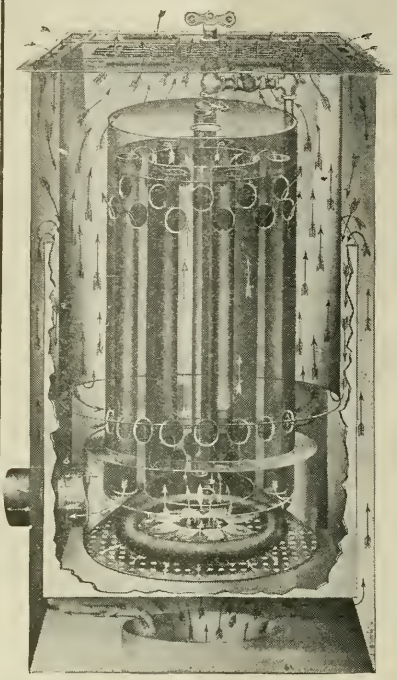

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Size 14½ in. square by 2 ft. high
Has 8-in. Fresh Air Intake with Damper.
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Fits in space between floor joists
Hangs from Register which lays flush with floor.

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B. Floor Furnace with fresh air intake at bottom. For use in buildings where it is desirable to obtain air directly from outside of cellar or basement. For artificial gas only.

NOTE—Style A and B are built alike except for position of fresh air intake.

C. Wall Furnace with fresh air intake at bottom. For artificial gas only.

D. Wall Furnace with fresh air intake at back. For artificial gas only.

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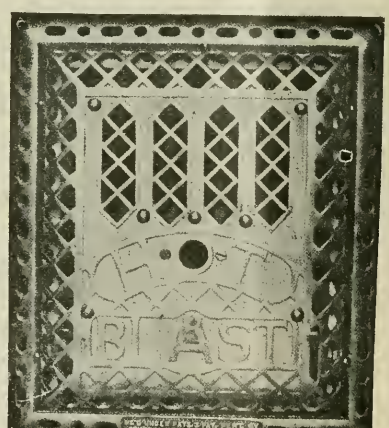
Floor Furnace.any style 30.00
Installations and fittings extra.



WALL FURNACE STYLE C

Size of Wall Furnace front is 17x19 inches, with a recessed portion of 14x17x4 inches between studding. Recessed portion has a 2-inch vent opening at top and a fresh air intake 3x12 inches at bottom operated with damper in front. Both vent and fresh air intake pipes go between studding.

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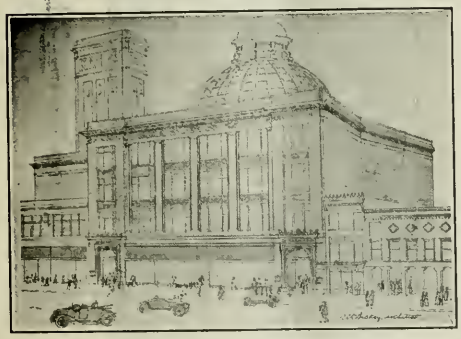

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Some Results of the B. A. & P. Railway Electrification.*

By J. B. Cox.

THE electrification of the Butte, Anaconda & Pacific Railway was completed in the fall of 1913 and interesting and complete data are now available concerning the cost of electrical operation and the results as compared to the steam methods previously employed. Prior to the decision to electrify the railroad, the machinery at the mines and the smeltery had mostly been electrified, and the results had been so satisfactory that the railway company investigated the advantages that might be expected from the electrification of its lines. As a result the work was done under contract with the General Electric Company. In order to understand the costs and results obtained by the new system, however, it should be understood that probably a vital consideration leading to the electrification was the rapid development and physical consolidation of a network of hydro-electric power plants in the territory tributary to the railroad. A contract for power was made with Great Falls Power Company, which, operating under the same management and in physical connection with the system of the Montana Power Company, was enabled to guarantee an ample supply of power at all times with exceptional freedom from interruptions to service and at a reasonably low price.

Power.

The Butte substation, with which the Anaconda substation is connected by three high-tension trunk lines, receives power over five separate transmission lines from six sydro-electric stations of the following rated capacities:

	Kilowatts
Big Hole development, 60-ft head	3,000
Madison River development, 110-ft head	9,000
Cannon Ferry development, 35-ft head	7,500
Hauser Lake, development, 60-ft head	14,900
Black Eagle development, 11-ft head	3,000
Rainbow development, 110 ft head	21,000
Total	57,500

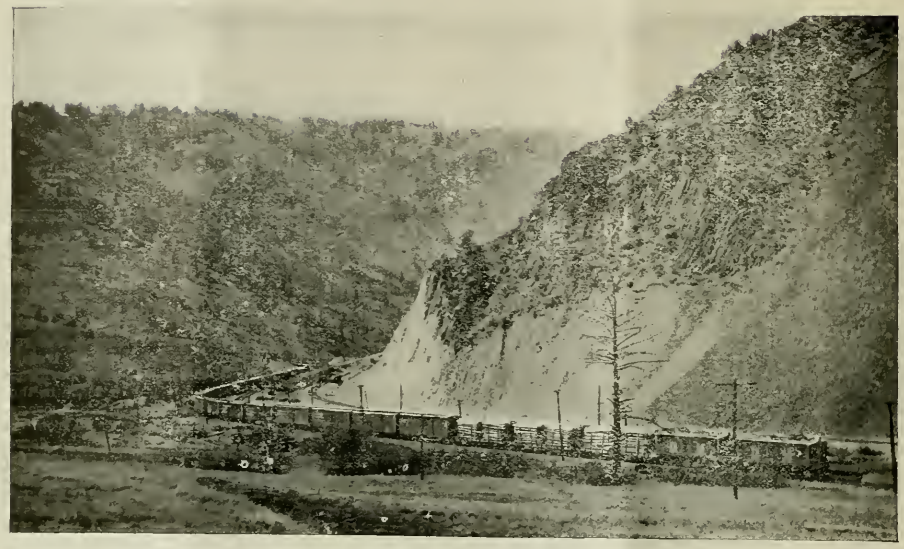
In addition, there is now under construction the Great Falls development, with a capacity of 60,000 kw. and with a 155-ft head. All of these plants are on the Missouri River watershed, and operate with a free interchange of power. The individual plants are also provided with storage reservoirs aggregating 125,000 acre feet of total available storage capacity. All of these reservoirs operating under one control are capable of developing from stored water alone the equivalent of about 100,000 electrical horse power for a period of 100 days.

The advantages of purchasing electric power from this large operating system, instead of developing the required power independently, was readily apparent in the case of the Butte, Anaconda & Pacific Railway. The road was relieved of all the first cost of development and transmission of power, and of all operating expense up to the point of delivery of power to the two substations. The cost of the delivered power is less than it would have been from an independent development, because the power company is enabled to operate large generating stations at a relatively high load factor, about 75 per cent, whereas an independent plant purely for the operation of the railway would have to operate in this case at about 30 per cent load factor, with corresponding high fixed and operating charges per kilowatt-hour used. The large number of generating stations and the complete network of transmission lines already developed by the power company afford ample insurance against the interruption of the railroad service due to possible failure of any part of the generating or transmitting system of the power company. The enormous flywheel effect of the motor loads connected to the power system maintains extremely steady speed and voltage under the most extreme variations of load on the railroad. While these factors should be borne in mind when considering the results and comparative costs it is also interesting to observe that operating records amply bear out these contentions.

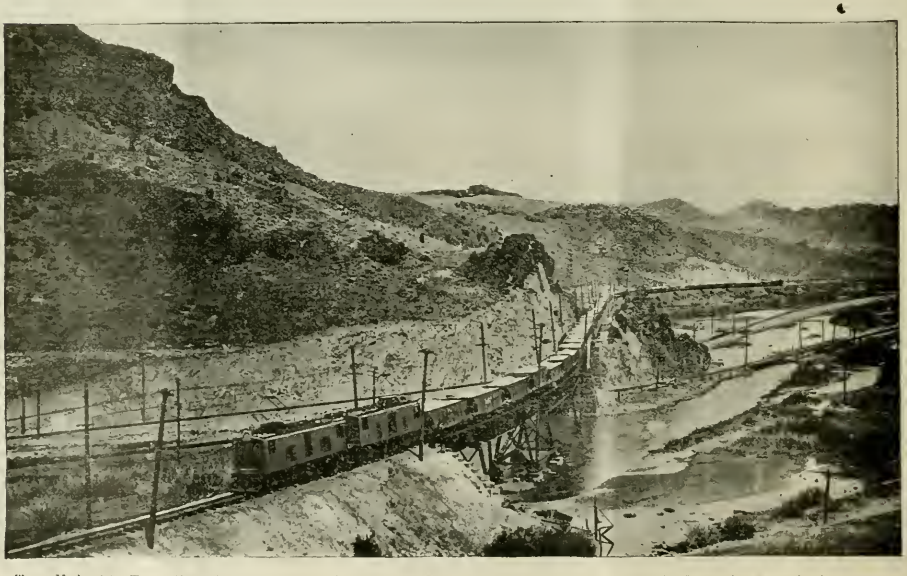
Tabulated results from a comparison of the delays to the passenger trains for June, 1913, under steam operation, with the same month in 1914 under electrical operation shows that under electrical operation, 2.94 per cent more trains were operated, with a decrease of 75.66 per cent of time lost at meet-in points; 45.45 per cent decrease in time lost because of engine failures (offset by some stoppages due to power failure), and 90.10 per cent decrease in lost running time, with a total decrease of 75.13 per cent in delays of all kinds. A comparison of trains and tonnage during the same periods shows that with a slight increase in the total tons of ore hauled, the average tons per train was increased from 1761 to 2378, or 35 per cent, thus decreasing the average number of trains per day from 12.5 to 9.3 or 25.6 per cent. A comparison of the time per trip for these trains, covering the first three days of June in 1913 and 1914, respectively, is representative of the gain in this direction to be added to the decrease in the number of trains. The average time per trip during steam operation was appoximately 2 hr. 25 min., while with the electric locomotive it was approximately 1 hr. 45 min., showing a decrease of 40 min., or 27.5 per cent. The distance in this case was 21.8 miles. As a consequence, the overtime in this service between Rocker and Anaconda was decreased 73.5 per cent and the total time 42 per cent, resulting not only in greater economy to the railway company, but in shorter and easier hours for the crews. The changes effected in the service on the Missoula Gulch line, running between Rocker and Butte Hill yards, is particularly striking. This line is 4.5 miles long with a ruling gradient of 2.5 per cent. Under steam operation, two complete crews with locomotives of the Mastodon type had been required to handle the service, each averaging six trips per day. In their place, a single crew with a double-unit electic locomotive performed the work successfully. From 35 to 40 loaded ore cars are taken down from Butte Hill yard to Rocker and about an equal number of empties taken up. In addition to the empties, large quantities of timber and supplies for the mines are delivered over this line.

At the time this was the first installation of 2400-volt direct-current apparatus for the operation of a railway in this country, 1500 volts being the highest previously installed for such purposes. The results have been more satisfactory than anticipated, and the development charges, due to such imperfections as usually show up during

*Abstract of article by J. B. Cox, in General Electrical Review.



Two-Unit 160-Ton Electric Locomotive and Freight Train on the Main Line Between Butte and Anaconda.



Two-Unit 160-Ton Electric Locomotive Hauling 1,550-Ton Ore Train on the Main Line, B. A. & P. Railway.

the first year of operation, have been perhaps smaller than is customary with an undertaking of like magnitude, even where standard apparatus is used. After a mileage of from 25,000 to 50,000 each the motors of the locomotives without exception were found to be in excellent condition. Small change in the personnel of the maintenance or operating departments of the railway has been made on account of the electrification and there has been no reduction in salaries or wages. An extra man with electrical experience was placed in the shops to supervise the electrical repairs to the locomotives and three linemen were retained for the maintenance of the trolley system.

Costs.

With approximately 20 per cent of the total locomotive miles operated with five steam locomotives, it was found that the cost of the latter was about 40 per cent of the total cost of all locomotive performance. Some of the savings that apparently result from the electric operation are remarkable. From comparative figures covering operations by steam from December, 1912, through May, 1913, and electricity from December, 1913, through May, 1914, the saving from the partial substitution of electric power for coal, for instance, was at the rate of $150,727 per year. This is still more remarkable when it is considered that more than 39 per cent of the total combined costs for fuel and power for the period considered was for coal, and charged against electrical operation. In this instance, the saving in this one item alone would undoubtedly justify the expenditure covering the entire cost of electrification. It is noted that with a single exception, that for depreciation of equipment, every item shows a substantial percentage of decrease in favor of electrical operation.

The total saving from locomotive performance alone was at the rate of $237,581 per year, to which should be added the credit of handling an increase of traffic at the rate of 13,938,136 ton-miles per year, or 8.77 per cent more than was handled by the steam locomotives during the period compared. To this saving from locomotive performance should be added the saving from trainmen's wages which is at the rate of $31,146 per annum, or a decrease of approximately 21 per cent, due largely to the elimination of overtime, making the total saving from these two items $268,728 per year. Deducting $10,839 for maintenance of the distribution system leaves $257,889 as the net operating saving per year due to electrical operation.

The total cost of the electrification including a change of signal system on Smelter Hill, the extra motor-generator set recently installed at Anaconda, interest during construction and all incidentals due in any way to the electrification, was, in round numbers, $1,201,000. This does not include the step-down transformers, which are the property of the power company; but on the other hand no deduction was made for the salvage due to the elimination of 20 steam locomotives. By making the correction for the item of depreciation, the total saving per year from locomotive performance would be reduced to $221,991, making the total net saving $242,299, which is equivalent to 20.02 per cent on the entire cost of electrification, to say nothing of the increased capacity of the lines, the improvement in the service and more regular working hours for the crews. If taken on the basis of the increase shown in net operating revenue o operating income, this percentage is slightly greater, the rate of increase per year for these items being $288,150 and $282,016 respectively. The estimate on which the decision to proceed with the electrification of the road was made, placed the annual net saving expected at 17.5 per cent of the cost, so that the results financially have been quite as satisfactory as the general performance of the equipment.

NEW WATER RATES FOR LA HABRA

The Railroad Commission has issued an order fixing the rates to be charged for water served to the inhabitants of La Habra, in Orange County by the La Habra Domestic Water Company, as follows:

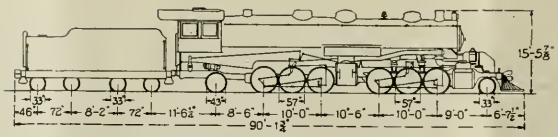
One dollar and fifty cents for the first 600 cubic feet; 20 cents a 100 cubic feet for the next 400 cubic feet a month, and 15 cents a 100 cubic feet for all over 1,000 cubic feet used a month.

The company is to put the rates into effect before February 15, and to instal a meter upon each of its services. At present the company charges a flat rate of $1.50 a month to consumers who are not stockholders, and $1 a month to stockholders. It has 106 users and 30 stockholders, with a capital stock of $20,000 divided into 400 shares of $50 each, of which 55 shares have been issued at par. The company has no bonded indebtedness, but owes $2,000. It buys its water from the Whittier Water Company at 5 cents a 100 cubic feet.

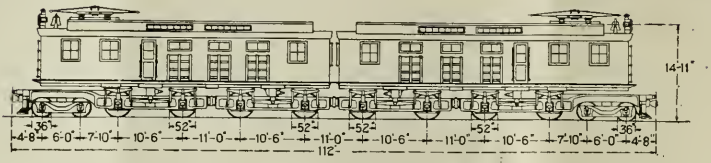
PASSENGER RATES TO CATALINA ISLAND REMAIN AS THEY ARE.

The Railroad Commission has issued an order finding that the rates of the Wilmington Transportation Company for freight and passengers between Los Angeles and Catalina island are reasonable and dismissing the complaint of J. H. Miller and E. Donaldsen against the company. The complainants, who compose the business firm of Miller & Donaldsen, conducting a general store at Avalon, asked the commission to reduce the freight and passenger rates of the company on the ground that they were excessive, and that the passenger rates prevented many people from visiting Catalina, to the injury of the complainants. The rates affirmed by the commission and which were alleged to be too high, are $2.25 a round trip for passengers, and the basic rate 20 cents a 100 pounds of freight.

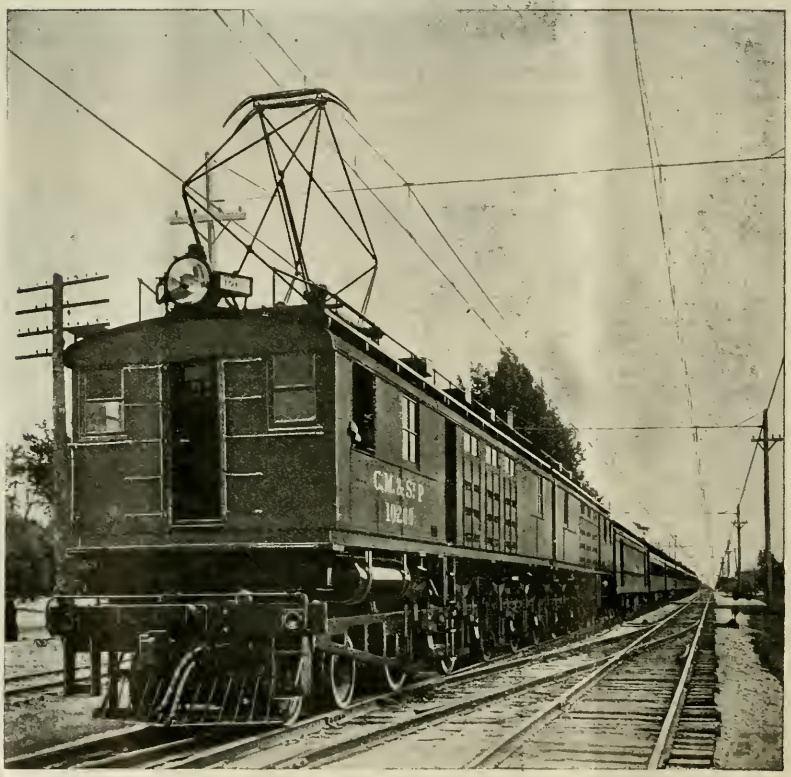
Avalon is 27 miles from Los Angeles, and the Wilmington Transportation Company, when served with notice of the filing of the complaint against it, asked for a dismissal, saying that its vessels were engaged in commerce with foreign nations as they sailed beyond the three-mile limit, and that jurisdiction over the company's rates was vested exclusively in the Federal Government. The Railroad Commission, after a public hearing, denied the motion to dismiss the complaint. The company applied to the supreme court of the State of California, and the commission's opinion was sustained. On February 1, 1915, the decision of the Supreme Court of California was affirmed by the Supreme Court of the United States and the jurisdiction of the Railroad Commission of California over the rates of vessels plying regularly between California ports, without touching at foreign ports, or at the ports of other states, was established. The going of vessels beyond the three miles from the shores of the California mainland does not affect the jurisdiction of the commission, the Federal court held. The Wilmington Transportation Company then filed its answer to the complaint, and denied that its rates were unreasonable. The company showed that it had a $2 round trip for week ends, and a party fare for groups of 30 persons or more at the same charge. The freight rates, it said, were also just. In its answer the company averred that the island of Santa Catalina, outside of Avalon, is practically uninhabited, that 95 per cent of the town, except the streets, and the entire territory outside of Avalon, is owned by the Santa Catalina Island Company, which also owns the Wilmington Transportation Company. The island is almost altogether a summer resort and large sums of money must be expended in maintenance, adornment and public entertainment. These expenditures are borne by the Santa Catalina Island Company, and it said that it could not continue unless rates were sufficiently high to enable the Wilmington Transportation Company to reimburse the Santa Catalina Island Company. The investigation of the commission proved that the Santa Catalina Company made but between 5 and 6 per cent interest on its investment, and that only the payment to it of considerable sums by the Wilmington Transportation Company, the defendants in the case, would enable it to make this reasonable return. Besides, the Wilmington Transportation Company has competition during certain seasons of the year, by other vessels plying between Los Angeles harbor and Avalon, or Long Beach and Avalon. The passenger fares on these vessels has been cheaper than the steamships of the Wilmington Transportation Company, so that there is no monopoly in question.



WEIGHT-LOCOMOTIVE & TENDER 555,700 lb
WEIGHT ON DRIVERS 324,500 "
TRACTIVE EFFORT 76,200 "



Above Steam Locomotive; below new 3,000 Volt Electric Locomotive.



The First 3,000-Volt Locomotive for the Chicago, Milwaukee & St. Paul Railway Company.

The First 3000-Volt Locomotive For the Chicago, Milwaukee & St. Paul Railway Company.

By E. S. Johnson, Railway and Traction Engineering Department, General Electric Company.

Interest in the approaching electrical operation of the transcontinental lines of the Chicago, Milwaukee & St. Paul Railway has been greatly increased by the exhibition tour of the first locomotive over the railway company's lines. The "big motor" as it is called by the railway men was taken in charge by the railway company at Chicago and has been exhibited at all the principal cities on the system between Chicago and Tacoma. The great interest displayed indicates popular approval of the electrification project from every quarter. The contract made on November 25, 1914, called for the delivery of the first locomotive in ten months and it is worthy of record that this date was promptly met, shipment being made on September 25, 1915. That this quick delivery is remarkable can be appreciated when it is understood that the design is entirely new, that the capacity exceeds that of any electric locomotive ever built, that the voltage of the system is higher than any direct current system for commercial operation, and that the system of control is entirely new, being designed for regenerative braking.

These locomotives may be properly termned the first transcontinental type, since no electrification now in operation involves such continuous heavy service over long distances. The lines now being electrified include 440 miles of route, carrying both freight and passenger traffic over three mountain ranges all within the territory known as the Great Continental Divide. It is also intimated that electrification to the Pacific Coast is contemplated, which will give a continuous electrified stretch of 850 miles. Transcontinental electric train operation has never before been undertaken on so large a scale. Exhaustive tests were made by the manufacturing company's engineers before shipment and the locomotive performance easily exceeded the expectations of the designers. Tests made on the regenerative braking equipment were especially gratifying to the engineers and the hauling capacity of the locomotives was demonstrated to the satisfaction of all concerned.

On account of the very general interest in the new locomotive the officials of the railway conceived the plan of making an exhibition tour in order to explain the various novel features to both the engineering fraternity and the general public. In all cities where an exhibit was planned a three column advertisement was inserted in the local papers fo a week or ten days prior to the date of exhibition. The newspapers were also furnished with an abridged description of the locomotive for use in their columns.

The famous transcontinental trains "Olympian" and "Columbia" will be hauled electrically through the Missoula and Rocky Mountain Divisions and the conditions of travel will be greatly improved by the elimination of smoke, gasses and noise incident to steam operation, making a trip over this beautiful scenic route a very delightful experience.

The first public inspection was held in Chicago at Fulton street near the Union Station on October 6th, from 12 noon to 4 p. m. It was estimated that 10,000 people gathered to see the great machine and 5,000 visitors actually passed through the interior. So great was the popular interest that several "Movie" operators were on hand and made films at different points which are now being exhibited throughout the country. Several photographers secured pictures, one of which shows the electric locomotive coupled to the luxurious through train Olympian.

Prominent among these visitors were many railroad officials located in Chicago and university professors; particularly those interested in engineering work at the University of Chicago and at Northwestern University. A number of students were dismissed from class work in order to give them an opportunity to examine the locomotive. Superintendents of motive power, street and steam railway officials, consulting engineers and city officials from Chicago and points within 200 miles took advantage of the opportunity to inspect the first transcontinental locomotive. Public men of every profession and city officials of Chicago were especially interested on account of the agitation in favo of electrification of the railway terminals of Chicago.

Visitors evinced great interest in the characteristics of the locomotive such as its capacity, speed, operation in cold weather, regenerating equipment, etc.

The equipment of the freight locomotive is sufficient to handle a 2500-ton trailing train on a 1 per cent grade at 16 m.p.h. and with passenger gearing an 800-ton train can be handled on the same grade at about 30 m.p.h. It weighs 282 tons and the length is 112 feet over all. Each of the eight motors has a one hour rating of 430 h.p. and a continuous rating of 375 h.p., thus providing a total of 3,000 h.p. continuously. Each motor is geared to an axle by twin gears thus equalizing strains on the driving axles. The available tractive effort at the one-hour rating is 85,000 lbs., but for starting trains approximately 135,000 lbs. is available at 30 per cent coefficient of adhesion.

The locomotive is equipped with two pantographs, one at each end, but one of these is sufficient to collect the necessary current should occasion demand. The most novel feature of the locomotive is the regenerative braking which enables the locomotive to hold back the heaviest train on the long descending grades—at the same time returning power to the line. The air brakes are thus used only for emergency service or in making the final stop. Regeneration is controlled by the engineer through an auxiliary handle on the master controller which causes the motors to return power to the trolley in the proper amount to maintain any desired speed. This feature was very thoroughly tested on the General Electric Company's experimental track at the Erie Works.

The general public showed much interest in the fact that cold weather offers no obstacles to electric locomotive operation as is the case with steam engines. It was pointed out that steam locomotives are usually in difficulties in the winter time, necessitating exta leeway in the time table to take care of delays and that there will be no delays for fuel or water or cleaning fires and that the electric engine will always be ready at a moment's notice. With electric operation trains will move exactly as scheduled so the meeting and passing points may be figured to the minute. Fuel trains will be eliminated in the mountain districts thus giving room for aditional trains handling revenue freight.

At Milwaukee an accurate count was kept and 5,010 people went through the locomotive. As many more inspected the locomotive from the outside and either did not have the time or the opportunity to make an examination of the interior. Especial interest was displayed by the employees of the railway company, practically the entire office and shop force taking occasion to visit the machine.

In St. Paul 2,550 visitors passed through the locomotive and in Minneapolis nearly 6,000 people. Opportunity was also afforded the faculty and students of the Railway Engineering Course of the University of Minnesota to make a careful examination at a special hour.

On the trip west over the Chicago, Milwaukee & St. Paul lines stops were made at Aberdeen, Miles City, Butte and Missoula with 2,000 to 3,000 visitors at each stop.

At Butte, the President's special car was attached and a trip made over the lines of the Butte, Anaconda & Pacific Railway to Durant and return. It is noteworthy that the locomotive was operated under its own power as a demonstration to these officials the day it arrived at Butte after being hauled more than 2,000 miles. Among the officials on the trip to Durant were President A. J. Earling; Vice-President H. B. Earling; Assistant to the President C. A. Goodnow in charge of electrification work; R. M. Calkins, Traffic Manager at Seattle; A. M. Ingersoll, Assistant to the Vice-President; R. Beeuwkes, Engineer in charge of electrification; Mr. H. A. Gallwey, General Manager of the Butte, Anaconda & Pacific Railway, and many others.

Final exhibitions were made at Ellensburg, Spokane (10,000 first day), Seattle and Tacoma. The number desiring to inspect the locomotive at both

Spokane and Seattle was so large that it was necessary to allow two days at each place for the exhibition.

TELEGRAPH ROW AT HUNTINGTON BEACH.

The Western Union Telegraph Company has opened a commercial office at Huntington Beach, Los Angeles County.

The Postal Telegraph Cable Company, which had an office there discontinued its service several months ago because of a disagreement between it and the Pacific Electric Railway. The commercial bodies, banks and many individuals of Huntington Beach complained to the Railroad Commission of this discontinuance, several business houses asserting that the conduct of their affairs was seriously interfered with by the lack of telegraph convenience. The Pacific Electric Railway had contracts with the Postal Telegraph-Cable Company whereby the latter was able to use the Pacific Electric stations and the services of the railway's agents, besides stringing their wires on the railway's poles, but these contracts were cancelled by the postal company. The Pacific Electric Railway protested and brought suit to enjoin the stoppage of the telegraph service, but the Los Angeles Superior Court decided that the railway was not a telegraph company, and that the Postal Telegraph-Cable Company had the right to remove its property and discontinue service. The Pacific Electric Railway served notice to the Postal Telegraph-Cable Company on August 23rd to cease occupying the premises October st, but when asked by the Railroad Commission to explain its stand in the matter, offered to permit the Postal company to continue under a reasonable charge, temporarily. The commission ordered the telegraph service continued until a permanent arrangement was reached, but for some time the city was without service owing to the removal of the telegraph instruments from its station by the Pacific Electric Railway. The Postal Telegraph-Cable Company claimed that the Pacific Electric Railway treated it unfairly. Now the Western Union and the Pacific Electric Railway have come to an understanding at an informal conference with the Railroad Commission, and the people of Huntington Beach are again enjoying telegraph service.

NEW TELEPHONE SYSTEM FOR BLYTHE.

The Colorado River Telephone Company of Blythe, Riverside County, has filed with the Railroad Commission an application for permission to build a telephone system in Blythe, and to charge rates of $3.25 a month for business houses, wall phones, etc., and $2.75 for residence wall phones. A minimum rate of $2 a month for ranch party lines is asked. The company wants a hearing before the commission to discuss the application, and to fix the amount of stock to be issued and sold.

"SAFETY FIRST."

Five hundred and twenty-five vehicle drivers on the Pacific Coast did their best to break into a railroad crossing accident in the two years ended June 30, 1915, despite the fact that gates were down and warning bells ringing. This shown in a report of the Southern Pacific Company, which reveals that during the period mentioned 525 crossing gates were broken by vehicle drivers who risked life and limb for speed and carelessness. The gamble taken by the drivers is obvious. To be broken the gates had to be down and the gates are down only when trains are approaching. The railroad company spends over $100,000 annually to operate and maintain crossing gates, but feels that the active co-operation of motorists and other vehicle drivers is imperative if crossing accidents are to be minimized.

Recently the Southern Pacific had observations taken at various crossings throughout the state to observe how careful drivers were in approaching the tracks. Of 17,021 motor vehicles observed, 11,836 drivers or 69½ per cent looked neither way before crossing the tracks; 2.7 per cent looked one way only and but 27 per cent looked in both directions. The almost incredible number of 3,301 or 19.3 per cent of the total number of drivers observed ran over the crossings at a reckless rate of speed. But 35 drivers stopped their machines before crossing the tracks to see that no trains were approaching.

NEW SWEETWATER WATER RATES

The Railroad Commission has rendered a decision authorizing the Sweetwater Water Company to establish the following rates in National City and Chula Vista, San Diego County:

For 40 cubic feet or less per month, $1.00. The next 1600 cubic feet, 15c per 100 cubic feet. All use for irrigation purposes above 2,000 cubic feet, 2c per 100 cubic feet. All use other than irrigation above 2,000 cubic feet 7½c per 100 cubic feet. Fire hydrant rental, $2.00 per fire hydrant per month, with a mimimum of $144.00 per month to be paid by the city of National City and $10.00 per month to be paid by the city of Chula Vista. Meters to be installed at the option of either the company or the consumer. Meters and service connections to be installed at the expense of the company.

NEW WAREHOUSE IN LOS ANGELES.

The Panama Pacific Warehouse Company of Los Angeles has applied to the Railroad Commission for authority to issue $450,000 in 20 year 6 per cent bonds and $450,000 in stock for the purpose of building a warehouse in Los Angeles.

The applicant estimates the cost of its site at $175,000, its warehouse building at $250,000, and its equipment at $82,000. The promoters of the enterprise are given as C. E. McStay, F. H. Brooks, A. B. Cass, R. H. Raphael, C. L. Bisbee, G. B. Ocheltree, of Los Angeles, and Moores & Dunford, of Chicago.

ONTARIO GAS COMPANY TO EXTEND SYSTEM.

The Ontario-Upland Gas Company has applied to the Railroad ommission for authority to issue $11,005 of stock and $75,000 of bonds. The company proposes to use the proceeds from the sale of its stock and bonds for the purpose of retiring existing indebtedness amounting to approximately $51,000, and for extensions to its system amounting to approximately $20,000.

SOUTH LOS ANGELES WATER COMPANY SOLD.

The Railroad Commission has issued an order authorizing the South Los Angeles Water Company to execute a grant deed to the South Los Angeles Land and Water Company. The latter has bought the water system of the former company for $75,000, par value of stock and $75,000 face value 6 per cent bonds, and the present order of the commission is merely an approval of the deed of contract of transfer.

S. P. TICKET AGENTS TAKE TRIP EAST.

Educational trips for its ticket agents is the latest feature adopted by the Southern Pacific ompany to add to the efficiency of its men.

Passenger Traffic Manager Charles S. Fee has arranged a thirty-day tour of the East and Middle West for ticket salesmen from the principal Southern Pacific agencies on the Pacific System. They will visit Chicago, Boston, St. Louis, Philadelphia, New York and other large cities, paying particular attention to the railroad geography of the country, so that, upon their return, in dealing with the public they will have first-hand knowledge, based on traveling experience, with which to answer questions. The men are leaving in groups of five, and all their expenses are met by the company.

The Southern Pacific is the only California road to maintain, separate and distinct from its agencies, an information bureau for the guidance of travelers, colonists and the public in general. The educational trips for the ticket men are supplementary to this service.

Three Contract Bids Are Tie; Engineer Gives Job to Best Guesser.

When bids by three different firms for the same kind of material are about equal, who shall decide?

The knotty problem was presented to the board of public service commissioners of Los Angeles a short time ago. There were three bids for the supply of ten tons of blasting powder. The three firms tendered alike in all respects.

While the commissioners were puckering their brows for an inspiration Aqueduct Engineer Mulholland ventured into the open as the modern Solomon. Mr. Mulholland jotted a certain number down on a piece of paper. He then asked representatives of the three firms bidding to guess the number.

The representative of Harper, Reynolds & Co. guessed nearest, so his firm's tender was accepted.

At the same meeting the board appointed Charles H. Lee, civil and hydrographic engineer, to conduct an investigation of tributaries to the Owens River with a view of determining their use for power purposes.

WATER COMMISSION NEWS.

The White Horse Water Company, J. H. Dixon, secretary, of Victorville, has applied to the State Water Commission for a permit to appropriate three second feet of water from Wild Horse Spring in San Bernardino County for agricultural purposes, the spring being located in the NE¼ of the SE¼ of Sec. line three and a half miles long will convey the water from the spring to the point of use: Lillie M. Cline and Daisy E. Dixon of Victorville are witnesses to the application. (187).

August Anderson of Red Rock P. O., Lassen County, has applied to the State Water Commission for a permit to appropriate six second feet of water of the Red Rock Creek and Reservoir, located in the NE¼ of SE¼ of Sec. 16, Tp. 35 N., R. 16 E., M. D. M., for purposes of agriculture. A dam of earth and rock will divert the water into a ditch one and one-half miles long, thence to a storage reservoir with a capacity of 80 acre feet. Witnesses to the application are R. M. Rankin and G. . Julian of Susanville. (188).

W. H. and J. S. Garrison of Victorville have asked for a permit from the State Water ommission to appropriate 50 miner's inches of water from Crystal Creek in San Bernardino County, for purposes of irrigation. There is a pipe line one and one-half miles long in the diversion plan. Location, Sec. 1, Tp. 3 N., R. 1 W., S. B. M. Witnesses, J. M. Sleeper and W. B. Hicks of Victorville. (195).

J. A. Baxter of Independence, Inyo County, has asked permission of the State Water Commission to appropriate 40 miner's inches of water from Nine Mile Creek in that county, and by a pipe line four and a half miles long convey the water to his lands. He has a concrete diversion dam and ditch in his plans. The witness are O. C. Harper and A. T. Farse of Independence. (196).

L. O. Reese and C. H. Mathews of Ruth, Trinity County, have applied to the State Water Commission for permission to appropriate for irrigation use, three miner's inches of the waters of Rowski Creek, Trinity County, a tributary of the South Fork of the Trinity River. The diversion dam is to be of concrete and the water will be conducted in a galvanized iron pipe a distance of 2,000 feet. (197).

The Sutter Butte Canal Company has applied to the State Water Commission for permission to appropriate waters to the extent of 50 second feet from Hamilton Slough, tributary to Butte Creek in Butte County. The waters applied for are those which escape from drainage of lands irrigated by the same company's system, which flow into Hamilton, Henderson and two other unnamed sloughs. It is intended to install removable dams, which can be taken out in the period of flood flow. A pumping plant will be used in connection with this proposed diversion, which contemplates the irrigation of 8,000 acres. R. P. Long and W. D. Burleson of Gridley are witnesses. (200).

A. G. Clausen of Alturas, Modoc County, has filed his application with the State Water Commission, asking for permission to appropriate 50,000 acre feet of the flood waters of Rattlesnake Creek in that county, tributary to the Pit River. The proposed diversion is for irrigation of some 20,000 acres of land and the works are to be known as the Big Sage Irrigation System. It calls for a storage dam 40 feet high, 500 feet long and 20 feet wide on top, built of earth and stone with a concrete core. Bert E. Smith and A. M. Green of Alturas are witnesses to the application. (201).

J. B. Brite of Tehachapi has applied to the State Water Commission for permission to appropriate 100 miner's inches of water from Brite Sawmill Canyon Creek, diverting the water at a point in the NE¼ of the NE¼ of Sec. 34, Tp. 32 S., R. 32 E., M. D. M., for the irrigation of 320 acres. The proposed works are a rock dam with concrete headgate and a ditch half a mile long emptying into a ravine and thence into a reservoir. (204).

W. J. Browing of Grimes, Colusa County, has applied to the State Water Commission for permission to appropriate for agricultural purposes, waters from the surce of Butte Creek, waters of overflowed lands tributary to it and waters from the drainage of irrigated lands which find their way into the creek. His point of proposed diversion is near the center of Sec. 17, Tp. 18 N., R. 1 E., M. D. M., in Butte County. By a diversion dam and canal he proposes to irrigate 3,200 acres.(206)

The Sutter Butte Canal Company of San Francisco, but operating in Butte County, has submitted to the State Water Commission three separate applications for permits to use waters in that county, the waters being, in the main, waters that drain into various sloughs from lands previously irrigated from their ditches—in other words a plan to use the water a second time. One application covers 50 second feet from Hamilton Slough in the above county, for the irrigation of between 4,000 and 5,000 acres. Another covers 20 second feet from Cherokee Canal and a third Old and New Dry Creeks. In the latter two cases, it is proposed to install pumps to reclaim the water. (208-209-210).

J. M. Bradford of Rialto, San Bernardino County, has been granted a permit by the State Water Commission to make use of the waters of springs in that county for the purpose of supplying a number of cottages with domestic water mostly during the summer months. The water is to be diverted at the foot of a cliff, and conducted into a reservoir, thence is pumped up to the houses located above the reservoir. (Permit No. 50).

Concrete Highway on Stilts Soon Completed.

It is announced that the great Yolo Basin causeway, between Sacramento and Davis, is almost completed.

During the last week in December last the first automobile went over the great $400,000 viaduct, and State Engineer Austin B. Fletcher announces that the causeway will be open for regular traffic by February 1st.

This concrete highway on stils will be the great connecting link between the east and west sides of the valley Sacramento has been awaiting for many years.

OPEN PACIFIC COAST OFFICE.

The Association of American Portland Cement Manufacturers have opened up a Pacific Coast office in San Francisco at 339 Rialto Building, and will handle general extensison work in concrete construction on the west side of the Rockies from this office. Mr. H. E. Hilts being in charge of this territory.

This Association is and educational and scientific body, interested in supplying the public with reliable information on the correct use of Portland cement, and is very glad at all times to answer inquiries relative to the many phases of concrete construction. It has published, from time to time, authoritative bulletins concerning the many phases of concrete construction, both from the technical and layman standpoints, and these bulletins are available for those who are directly interested in the general concrete construction.

Pacific Light and Power Corporation of Los Angeles to Spend over a Million on Extensions and Betterments.

The Railroad Commission has issued an order authorizing the Pacific Light and Power Corporation of Las Angeles to issue $4,000,000 face value 6 per cent general mortgage serial convertible gold bonds, and $4,120,000 par value of 7 per cent prior preferred stock. Authority is also given to execute a mortgage or deed of trust to secure the payment of the bonds. These are to be issued at not less than face value and accrued interest, less 3 per cent commission. Of the sum realized from the bonds, $2,724,639.28 may be used to pay notes. The proceeds of the bonds, after the payment of these notes, is to be used for extensions, additions and betterments to the corporation's plant, a list of which will be filed later.

LOS ANGELES GAS MIX UP.

The city of Los Angeles has filed with the Railroad Commission an application in intervention, in the application of Los Angeles Gas and Electric Corporation, for fixing of gas rates by the commission. Los Angeles says that it is impracticable or impossible for it to determine from the application of the corporation, the character or quality of the gas it intends to supply. The city wants to be fully informed of just what kind of gas, whether artificial or natural or mixed, and of what number of heat units the corporation proposes to distribute within its borders.

TO BUILD BIG BOX FACTORY.

Announcement is made that a $75,000 box factory is to be built on the Folsom road, near Perkins, in the near future by a company composed of San Francisco capitalists. The company will employ 75 men the year round. The plant will be ready to operate about the middle of April. The location near Sacramento was selected because it is the center of a great fruit growing district, which makes a demand for packing boxes.

Long Beach Accepts Sewage Incinerator.

The municipal commissioners have accepted the recently completed sewage disposal plant, the acceptance being made with the institution of proper steps to protect the city's interests.

The cost of the incinerator or disposal plant is $39,400. The first payment to the contractor, the Sanitation Company of New York, is $27,600, the demand for which was allowed.

The incinerator is the only one of its type in America. It is known as the Reinsch-Wurl disposal plant.

NEW BRIDGE OPENED AT KENNETT

710-Foot Structure Now Spans Sacramento.

The new bridge across the Sacramento River at Kennett, Shasta County, which has been open to travel for a couple of weeks, was a sort of a Christmas present to Kennett. It is a long-needed convenience, making a direct connection with Redding and points south, by the east side wagon road.

The bridge is a combination wood and steel structure costing $18,000. The city of Kennett paid $4,000 toward the cost of its construction. The steel used in the bridge was once a part of the American River bridge in Sacramento.

The new bridge is 710 feet in length, or three spans of 200 feet each and approaches totaling 110 feet. The two river piers are 45 feet high. The bridge is directly east of the depot.

Great Western Power Co. to Spend Five Million in Extensions and Betterments.

The Railroad Commission issued an order authorizing the Great Western Power Company of California to issue $5,000,000 of ten year 6 per cent convertible gold debentures. The proceeds from the sale of the debentures are to be used as follows:

(a) $3,000,000 for the acquisition of the stock of the City Electric Company, on the condition that the City Electric Company invests the $3,000,000 in additions and extensions to the properties belonging to it and the Great Western Power Company.

(b) $1,500,000 in the construction of a second transmission line from the hydro-electric installation at Big Bend, Butte County, to Oakland.

(c) $250,000 for the construction of two cable lines across San Francisco Bay, from Alameda County to San Francisco.

San Francisco to Pave Streets With Wooden Blocks.

Wooden blocks as a paving material are to be tried on a block in Battery, between Bush and Pine streets, according to a decision arrived at by the Board of Public Works. The Pacific Creosoting Company was given permission to lay a block of this paving upon a foundation furnished by the city.

Peart Bros. Pushing Work on Modesto Dam.

Peart Bros. of Oakdale, Stanislaus County, who secured the contract for the reconstruction of Dam No. 1 for the Modesto Irrigation District are now making rapid progress and the threat of the district to cancel the contract will not be carried out. The contractors have put an additional crew of men on the job at La Grange, and say they will have no difficulty of completing it on time.

The Modesto district at a meeting threatened to take over the contract and do it at the expense of the bonding company unless it was pushed along at a more rapid rate, and the contractors are now making satisfactory progress, according to the engineers.

District at Work on Riverbank Pipe Line.

Work has been started on the rejacketing of the pipe line at Riverbank, Stanislaus County, Cal., and Engineer Burton Smith expects to have the job completed within ten days so that the highway crew can bridge the gap left through the railroad town, at once. Engineer Smith started the excavation for the pipe line with a crew of ten men, and is now putting on the new casing of concrete.

The cost of the work will be paid by the Oakdale Irrigation District, and one-half this expenditure will be refunded later by the county, when the pipe line is taken over for deeding to the state. The cost is estimated at from four to five thousand dollars.

Expert Will Make Report on Good Roads for Del Norte.

If plans which the Del Norte County Board of Supervisors have set afoot are carried through, this county is soon to have a road system which will be a great improvement over the one now existing and far better than those of many counties of equal or greater wealth. At the last meeting of the Supervisors, by a vote of 3 to 2, it was decided to employ an expert to go over the Del Norte County roads and through the various sections of the county in need of roads and then present a report containing recommendations as to construction work, what roads are most needed and also covering the matter of the best methods of upkeep.

Del Norte County is anxious to build up better means of communication between its communities and is also anxious to offe a better road through the county in order to further attract tourist travel. This is the initial step in that direction.

Puente City Water Company to Improve System.

The Puente City Water Company, of Puente, Los Angeles County, has filed with the Railroad Commission an application for authority to sell seven shares of its capital stock for $50 a share, par value, the money to be used for improvements in its system.

PERSONAL.

M. A. Nurse, one of the best known citizens of the Sacramento Valley and prominent as a civil engineer, died at his residence, 2015 K street, Sacramento, afte a lingering illness.

Deceased was born in Scioto County, Ohio, on June 19, 1846. He came to California in 1862, and was engaged as civil engineer on the Western Division of the Central Pacific Railroad. He was then employed as engineer of the Clear Lake Water Company in the development and supply of water for the city of San Francisco, and was the original promoter of the project to conserve the waters of Clear Lake for power and irrigation purposes. Later he became engineer of various reclamation enterprises throughout the Sacramento Valley.

During the latter part of Governor Markham's administration, Nurse was appointed Engineer of the State Department of Public Works, and served in that capacity during the administrations of Budd, Gage, Pardee and Gillett.

He was a member also of the Dabney Commission of Engineers for the formulation of a plan of flood control for the State of California.

Division Engineer Goes to El Paso.

D. W. Chamberlain, for 18 months division engineer for the California State Highway Commission, with headquarters in Fresno, has left for El Paso, Texas, where he will become engineer for the El Paso County Highway Commission. Mr. Chamberlain has been connected with the local division of the highway commission since actual construction work was started in 1912. Mr. Chamberlain's successor will be named by the State Highway Commissioners at Sacramento.

Highway Surveyors Arrive to Start on Sand Hill Route.

A party of five surveyors from the State Highway Commission have arrived in Holtville, Imperial County, and are making preparations to start work on the survey of the Sand Hill route from Holtville to Yuma.

The members of the party are Howard Noble, Jas. A. Stauff, C. C. Strickland, H. H. Wildey and J. Keenan.

Indications are now that unless efforts being made by Calexico are successful the state highway to Yuma will go straight east from Holtville, leaving out the Bond corner route agreed upon a year or so ago by Holeville and Calexico interests when the fight was being waged for recognition of this route. Calexico sent a delegation recently to interview Lientenant Governor Eshleman to get him to use his influence for the Bond corner route.

The intention of the Highway Commission, however, seems to take the most direct route possihle from Holtville to Yuma. This would be straight east from Holtville,

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

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APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 5 story and base, steel and brick. Cost not stated. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, S. N. Wood. Location, southeast corner Sutter and Leavenworth. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine, hardwood and white enamel. Hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Bath rooms tile and composition. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $30,000. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, San Francisco Investment Co. Location, Hayes street rear the Panhandle. Will contain 96 rooms arranged in two, three and four room suites. Interior finish pine and hardwood. Hardwood and tile floors. Steam heat and hot water supply. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster on metal lath. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base, brick and steel, $35,000. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, east Hyde south of Bush. Will contain nineteen apartments of two and three rooms with private baths and wall beds. Interior finish pine and elm. Hardwood floors. Steam heat, hot water system and vacuum cleaning. Bath rooms tile and composition. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and segregated figues being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $14,000. Architect, none. Owner, Michael Dempniak, 728 Page street, S. F. Location, north Jackson east of Polk, covering an area of 22½ by 90 feet. Will contain six apartments of two and three rooms. Interior finish pine and hardwood veneer with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile and composition. Wall beds. Marble wainscot. Exterior brick veneer and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $10,000. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, David McLaughlin. Location, west Grove north of 17th street. Will contain six suites of three rooms and bath. Interior finished in pine and white enamel. Some hardwood floors. Steam heat and hot water system. Tile bath rooms. Marble wainscot. Exterior covered with rustic and cement plaster. Plans complete and sub-figures being taken by John Bartlett, 565 16th street. Subfigures are also being taken on a similar building to be erected on 17th street west of Grove.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 3 story and base, frame, $25,000. Architect, Walter H. Parker, 12 Geary street, S. F. Owner's name not given. Location, southeast corner of College and Ashby. Will contain stores on the first floor and a total of 46 rooms arranged in two and three room apartments on the upper floors. Private baths and wall beds. Steam heat and a hot water system. Bath rooms tile. Marble and tile entrance. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $10,000. Architect, none. Owners, Collins Bros., 825 51st street, Oakland. Location, 19th street west of 4th avenue. Will contain 24 rooms arranged in two and three rooms with private baths and wall beds. Interior finish pine and elm with some hardwood floors. Steam heat and a hot water system. Bath rooms tile. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

Contracts Awarded.

ANAHEIM, ORANGE CO., CAL.—Apartment house and theatre, 2 story and base, brick. Cost not stated. Architect, C. F. Skilling, Garland Bldg., L. A. Owner, Mrs. Sadie Weston Froman. Contractor, J. M. Buckles, 1040 Lovelace avenue, L. A. Contract price not stated.

BONDS

NEWPORT BEACH, ORANGE CO., CAL.—Bonds of $60,000 were voted last week for a distributing system inside the corporation limits. The gas is to be furnished by the Southern Counties Gas Co., who will construct the pipe lines necessary.

Bonds of $20,000 were also voted at Huntington Beach for the same purpose, the same company building the pipe lines.

CALEXICO, IMPERIAL CO., CAL.—The bond issue for $100,000 for municipal improvements carried. The money will be used as follows: $64,000 for water extensions, etc.; $25,000 for sewer extensions, etc; $6,000 for fire truck; $5,000 for construction of a fire truck house for motor.

OCEAN BEACH, SAN DIEGO CO., CAL.—The election to vote $125,000 for ocean front improvements has been recommended by the City Council.

MILPITAS, SANTA CLARA CO., CAL.—Bonds of the Milpitas School District are being advertised for sale. The bonds voted were $12,000 and provide for a new school for which plans have already been prepared.

MARTINEZ, CONTRA COSTA CO., CAL.—From present indications a bond election will be called in the near

future to raise funds for the construction of sewers in certain portions of this city.

SANTA CLARA, SANTA CLARA CO., CAL. — The College Park Sanitary Board has ordered a $9,000 bond election to raise funds for the purpose of building and connecting with the San Jose sewer system.

The Town Trustees of Santa Clara have passed an ordinance authorizing the sale of the $45,000 paving bonds voted recently. Bids for the purchase of the bonds will be opened on January 17th. Town Engineer Henry Fisher has been instucted to prepare the necessary plans.

WALLA WALLA, WASH—The School Board has decided to call a special election to vote bonds of $200,000 for the erection of a grammar and high school.

RIVERDALE, FRESNO CO., CAL.—Bonds of $25,000 have been voted for a new school building. Plans for the building will be ordered shortly.

LODI, SAN JOAQUIN CO., CAL.—The Supervisors have ordered the sale of the $40,000 school bonds voted a few weeks ago for a new school.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge bonds for structures on the state highway amounting to $200,000 have been sold by the Supervisors.

SALINAS, MONTEREY CO., CAL.—The Supervisors have sold $63,719.50 worth of state highway bonds to Torrence-Marshall Co., paying 98.03 per cent.

SAN BRUNO, SAN MATEO CO., CAL.—Proceedings are under way for calling a bond election for the installation of a water system for fire protection.

SUSANVILLE, LASSEN CO., CAL.—February 8th is the date set to vote on the question of issuing bonds of $16,000, of which $15,000 will be used for street improvements and $1,000 for a fire alarm system.

SANTA MONICA, LOS ANGELES CO., CAL.—Plans to make Ocean Park the biggest amusement resort in the west by the addition of a 700-foot pier, have been announced by Manager Maynard Gunsel of the State Investment Co., which controls the amusement grounds.

BAKERSFIELD, KERN CO., CAL.—The third $500,000 of Kern County highway bonds have been sold by the Supervisors to the Lumbermen's Trust Company.

SANTA ANA, ORANGE CO., CAL.—The $66,000 school bonds of the Randolph District have been sold and plans will be ordered for the new building immediately.

SAN RAFAEL, MARIN CO., CAL.—No bids were received for the first sale of $600,000 worth of bonds of the Marin Municipal Water District, and the bonds have been ordered readvertised.

TAFT, KERN CO., CAL.—The Taft High School District bonds of $60,000 have been sold and work on the new school building to be erected from the proceeds of the sale will be started in the near future.

ORLAND, GLENN CO., CAL.—The City Council has ordered a special election to vote bonds of $7,000 for the purchase of a block of property for park and municipal purposes. In the center of the park the proposed Carnegie Library will be erected. Local people have planned to purchase the bonds if voted.

BRIDGES, DAMS AND HARBOR WORK

PORTLAND, ORE.—Bridge, steel and concrete. Cost not stated. Engineer not selected. Owners, Polk and Marion Counties. Nineteen sets of bridge plans were submitted by engineers to the county courts of Polk and Marion Counties for the Willamette River bridge at Salem. Plans for both steel and concrete structures were received at costs ranging from $126,430 for a high level steel bridge to $294,510 for a low level concrete bridge. All of the plans unless otherwise specified were for a 30-foot roadway with a 6-foot sidewalk on each side. A selection will be made of the plans on which the structure will be constructed.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Bridge, reinforced concrete, $1,834. Engineer, County Surveyor Lloyd Bowman, Santa Cruz. Owners, Santa Cruz County. At the last meeting of the County Supervisors bids were opened for the construction of the proposed bridge near Granite Creek, and all being too high were rejected. The work was then ordered done under the supervision of the County Surveyor.

Contracts Awarded.

VISALIA, TULARE CO., CAL.—Bridges, reinforced concrete. Cost as follows. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractor, Mike Nelson, Visalia, $238.50, and Schliach & Krey, Visalia, $237.

RED BLUFF, TEHAMA CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Red Bluff. Owners, Tehama County. Contractors, Ross Construction Co., Forum Bldg., Sacramento. Contract price not stated.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, reinforced concrete. Cost as follows. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractors, Munoz & Munoz, Central Bldg., L. A. Contract price, $,393. Humphrey & Elliott, Santa Barbara, $7,800.

CHURCHES

CONCORD, CONTRA COSTA CO., CAL.—Church, 1 story and base, frame, $5,500. Architect, Francis W. Reid, Walnut Creek. Owners, Concord Presbyterian Church. Designed in the Mission style and will contain main auditorium and Sunday school rooms. Interior finish pine. Art glass windows. Exterior covered with cement plaster. Plans being prepared and figures to be called for at once.

COURT HOUSES.

SAN FRANCISCO—Hall of Justice elevator, $3,490. Architect, City Department of Architecture, Temporary City Hall, S. F. Owners, City and County of San Francisco. The Otis Elevator Co. submitted the low bid for installing an elevator in the Hall of Justice. A complete list of the bids received will be found under the head-in of San Francisco in this issue.

SAN RAFAEL, MARIN CO., CAL.—Court house wiring. Cost not stated. Architect, none. Owners, Marin County. Bids will be received until February 8th for electric wiring in the Court House at San Rafael. Plans can be secured from Eugene Bogle, San Rafael.

Contracts Awarded.

SACRAMENTO, CAL.—Hall of Justice, 4 story and base, reinforced concrete, $206,044. Architects, Shea & Lofquist, Bankers' nvestment Bldg., S. F. Contractor, H. S. Williams, Hearst Bldg., S. F. Contract price, $197,420, general construction. Ralston Iron Works, S. F., special jail equipment, $18,624.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Dairy and stables, 1 and 2 story and base, brick, $30,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, San Francisco Dairy Co. Location, south Turk street west of Steiner, covering an area of 50 by 137½ feet. Will contain office, local sales room, plant and stable for 30 horses. Concrete floors. Patent store fronts and marble bases. Interior finish pine. Steam heat. Special boiler equipment and machinery not included in general contract. Exterior faced with pressed brick. Plans complete and contract to be awarded.

OAKLAND, CAL.—Machine shop and store houses, 2, 2 story frame, $2,500. Architect, none. Owners, Hanlon Dry Dock and Ship Building Co., Oakland. Location, west 5th avenue near 1st street. Designed for a machine shop and warehouse. No interior trim. Exterior covered with corrugated iron. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Warehouse, 1 story, frame, $1,000. Architect, none. Owner, J. C. Baker, 5056 Fairfax avenue, Oakland. Location, west Magnolia north of 22nd street. Cement floor. Exterior corrugated iron. Plans complete work by Day Labor.

Contracts Awarded.

SAN FRANCISCO—Foundry building, 1 story, reinforced concrete and steel, $100,000. Architect, none. Owners, Union Iron Works, S. F. Contractors, Van Sant-Houghton Co., Hooker-Lent Bldg., C. F. Contract price, $100,000.

PITTSBURG, CONTRA COSTA CO., CAL.—Tanks, redwood, $40,000. Engineer, none. Owners, Hercules Powder Co., S. F. Contractors, Redwood Manufacturing Co., 479 Bryant street, S. F. Contract price, $40,000.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Fire house, 2 story and base. Class C, $32,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, north Howard between First and Second. Plans have been officially approved and bids will be called for at once.

Contracts Awarded.

BAKERSFIELD, KERN CO., CAL.—Jail counter, $735. Architect, none. Owners, Kern County. Contractor, M. G. West Co., 353 Market street, S. F. Contract price, $735.

FIRE REPORT

WINTERS, YOLO CO., CAL.—Winters Hotel, 2 story brick; damaged estimated at $10,000.

LOS ANGELES, CAL.—Reports received from this city state that the Banning Company will spend between $250,000 and $500,000 within the next two months in rebuilding Avalon, which was almost totally destroyed by fire a few weeks ago.

SAN MATEO, SAN MATEO CO., CAL.—Montara Inn; damage $13,000; structure owned by Messrs. Wiggin & Savage of San Francisco.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Pacific Railway wharf; damage with contents $100,000. Owned by Pacific Railway Company.

TAFT, KERN CO., CAL.—Shop of the C. C. M. Oil Company at Vernette; damage $20,000, entirely covered by insurance. Owners will rebuild at once, according to W. J. Atwood, agent for the company at Vernette.

ARBUCKLE, COLUSA CO., CAL.—Residence of H. H. Schultz; damage $20,000, partly covered by insurnace.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Karl Yngve, 133 Alpine street, S. F. Location, west Stanyan north of Parnassus. Will contain two modern flats of five and six rooms. Interior finished in pine and elm panels with some white enamel. Hardwood floors. Open fire place and tile or brick mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $6,000. Architect,. none. Owner, E. Bourne, 3631 17th street, S. F. Location, north 18th street east of Guerrero. Will contain three modern flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $4,900 each. Architect, none. Owner, H. C. Keenan, 200 Webster street, S. F. Location, east 21st avenue south of California. Each building will contain two modern flats of six rooms and baths. Basement garage. Interior finish pine and elm with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,800. Architect, none. Owner, Alfred Johnson, 2423 Clement street, S. F. Location, west 24th avenue south of Clement. Will contain two flats of five and six rooms. Interior finish pine and southern gum. Hardwood floors. Open fire place and tile or brick mantel. Tile bath rooms. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, E. A. Schumacher, Nevada Bank Bldg., S. F. Owner, Charles Pedersen. Location, east 11th avenue south of Geary. Will contain two flats of five and six rooms with baths. Interior finish pine and southern gum. Hardwood floors, open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with cement plaster and shiplap. Plans complete and work by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $6,500. Architect, Alfred Henry Jacobs, 110 Sutter street, S. F. Owner, Myrtle T. Cert. Location, 13th avenue near California. Will contain two flats of six and seven rooms, baths and basement garage. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heaters. Exterior cement plaster on metal lath. Plans being prepared.

GARAGES.

SAN FRANCISCO—Factory branch, 5 story and base, reinforced concrete. Cost not stated. Architects, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Local representative C. F. Wieland, Claus Spreckels Bldg., S. F. Owners, Willys-Overland Co., leased to J. W. Leavitt Co. Contractors, Leonard Construction Co., Chicago, Ill. Contract price not stated. Note: Subfigures will be taken on all parts of the work.

LOS ANGELES, CAL. — Automobile school, 1 and 2 story and base, brick. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Mrs. S. H. Van Nuys, leased to National Automobile School. Contractors, Alta Planing Mill Co., 830 Garry street, L. A. Contract price not stated.

GOVERNMENT WORK & SUPPLIES

RIVER and Harbor Prospect.

Despite pospects of a fight in Congress over revenue legislation and the pleas of party leaders for economies, Chairman Sparkman of the House rivers and harbors committee, is planing to report a general waterways bill, and there was talk recently of the intention of the House public buildings committee, headed by Representative Clark, of Florida, to report an omnibus building bill.

It developed that when the rivers and harbors committee meets after the holidays to determine its course there will be up for consideration favorable reports of the Amy engineers on new projects aggregating about $120,000,000.

The committee is being flooded with requests of members that projects in their states be taken care of, and these, together with other data and favorable reports of the War Department, will be filed away fo consideration. The committee may decide to restrict the bill to continuation of projects already authorized and if so a contest likely will develop in the House on this issue. There is already evidence of an intention on the part of many members to insist upon more liberal waterway appropriations.

There are numerous big projects on file, favorably reported on by the War Department. Some of these larger ones are:

New York-Delaware Bay waterway, $20,000,000; Tennessee River at Muscles shoals, $18,701,000; East River and Hell Gate, N. Y., $13,400,000; waterway, Beaufort-St. Johns River, Fla., $14,400,000; Chesapeake and Delaware Canal, purchase and improvement, $8,000,000; Cumberland River, above Nashville, $1,500,000; Red River, La. and Ark., $6,020,000; Sacramento and San Joaquin Rivers, Cal., $5,860,000; waterway, St. George Sound to the Rio Gande River, $3,632,810; dam at the foot of Lake Erie, N. Y., $3,500,000; improvement of Connecticut River, $1,870,000; channel to New York navy yard, $1,950,000; Boston Harbor, $1,545,000; Norfolk Harbor, $1,114,000; Hawaiian harbors, $1,336,000; Nansemond River, Va., $4,500; Hampton Creek, Va., $4,500; Tangier channel, Va., $16,434; Lecklies Creek, Va., $4,100; Oyster channel, Va., $11,250.

Plans as to the most of these projects are for comparatively small initial appropriations, which, however, would commit the government, in principle, to their ultimate completion.

Taming of the Rivers.

Secretary of the Interior Lane uses the Colorado River as a vivid illustration of the manner in which the floods of our rivers may be converted from a curse into a blessing. He tells how the Colorado yearly threatens to destroy the Imperial Valley near its mouth, while millions of acres of land on its upper course thirst for these very destroying waters. What he says of the Colorado is true of every other river of the west and of many in other parts of the country. He states the case epigrammatically by saying that "in their upper reaches the lands need the waters, while in their lower reaches the lands must be saved from the that it might not be his fortune to see waters." He applies the same remark to the Mississippi River and relates that after seeing the problem it presents, Sir William Wilicocks, builder of the Assuan dam, "who has spent his life in India, Mesopotamia and Egypt as a river tamer, sighed with regret that it might not be his fortune to see the day that, he said, would surely come, when the valley of the Mississippi would be another valley of the Nile, only greater in area and more perfectly adapted to the white man's life."

Mr. Lane believes the chief problem is how "the lands reclaimed shall be made to bear in some degree the burden of the expense," for the funds needed mount into staggering figures. They cannot be provided out of current revenues and should not be, for permanent improvements are a legitimate charge against capital." He proposes a commission to devise plans by which states and individuals can cooperate with the government in paying for the work.

The secretary appears to have in mind the issuing of bonds, payment of

interest and principal of which should be made a charge on the land that is improved. River improvement on a grand scale would add to the value of land along the entire course of the stream and should be paid for by each beneficiary in proportion to the benefits received, whether in irrigation of arid land, in drainage of swamps, or in relief from floods. It comes under the head of these things for which President Wilson in his address to Congress said borrowing can be justified—"permanent things which many generations will certainly benefit by and which it seems hardly fair that a single generation should pay for."—Portland Oregonian.

Is the Canal too Small?

It is a curious fact that, although the dimensions of the Panama Canal were enlarged in order to give ample accommodation for any size of ship that might be expected to be built in the future, the Secretary of the Navy is forced to limit the design for battleships, saying that it would not be wise to build such ships too large to pass easily through the canal. This means that, if the canal were larger, we would build larger vessels. Therefore, the canal already, before it is permanently opened, is found inadequate to the possible needs of our country.

This suggests the question whether other nations will be limited by the same consideration; and, if not, whether the canal will prove actually a disadvantage to us on that account.

Report of Army Engineers.

The annual report of the chief of engineers of the Army contains the following:

It cannot be too emphatically stated that the art of fortification is a progressive one. It must continually grow to keep pace with the new discoveries which give it special advantages or to meet and offset progress in the development of naval vessels and armament against which the forts are expected to contend. However carefully planned and constructed, a battery must always pertain to the date when completed and must be out of date in so far as relates to things which have been discovered since the battery was planned.

Seacoast defenses are designed to fight naval vessels and to thus protect certain cities, harbors, or other utilities from bombardment by an enemy's vessels within any of the areas covered by the seacoast guns. In locating and designing batteries the range and power of the naval guns, as well as the number of such guns which can be brought against these fortifications, must be given consideration, and, unless our fortifications are to become obsolete, changes in any of the elements of naval offense must be met by corresponding changes in seacoast batteries, and these changes must in most cases consist not merely modifying the older emplacements by affoding additional protection for the gun platforms and magazines against the increased power of naval guns, or in mounting more powerful guns in these older emplacements, but rather in the construction of absolutely new batteries in new locations. The older batteries were necessarily designed and located so as to obtain the maximum effect with guns of the range of those to be mounted in these emplacements. If the guns which were to be mounted in these older batteries had been of longer range, the locations of the batteries would in many cases have been different, and if more powerful and longer-range guns be mounted in these older batteries a large proportion of this increased power and range will in most cases be lost.

For the above reasons it should be noted that afixed project fo seacoast defense can never be adequate, and its obsolescence must begin before it can be completed. It is believed that our seacoast defenses can best be kept sufficiently up to date by the adoption of a regular annual program which will provide for replacing each year from 4 to 10 per cent of our older emplacements, depending upon the size and condition of the older emplacements and the rate of progress being made in naval offense.

Seagoing Submarine Contracts.

Shipbuilders are showing quite a little interest in the contracts for the two submarines of seagoing type authorized by the last naval appropriation act and bids for which will be opened at the Navy Department on February 16. Already the following concerns have been furnished plans and specifications preparatory to submitting proposals: Lake Torpedo Boat Company, Bridgeport, Conn.; Electric Boat Company, New York, N. Y.; Newport News Shipbuilding and Dry Dock Company, Newport News, Va.; New York Shipbuilding Company, Camden, N. J.; Union Iron Works, San Francisco, Cal.; and Sloan-Danenhower Company, New York, N. Y. Previously to these boats designs were not prepared in the Navy Department but the general requirements and specifications were issued by the department to prospective bidders, who prepared and submitted their own designs. Now a new policy has been adopted in that the designs for the two seagoing submarines were prepared in the Navy Department, as for other vessels of war, and that will be done in the case of subsequent submarines, bidders being allowed to bid upon the departmental designs and upon their own. The departmental designs call fo steam turbine machinery for surface propulsion in order that the surface speed of 25 knots prescribed by the act may be attained, an arrangement of refrigeration being called for to take care of heat and gases from the boilers when the boat is submerged and being propelled by electic motors receiving their power from storage batteries. This scheme is understood to have met with more or less success in an experimental Swedish submarine, but there is some doubt as to its practicability among our own submarine builders. Therefore, it is expected that at least some, if not all, of the bidders will submit proposals for internal-combustion engines for surface propulsion, as is used in the submarines now in surface building, including the seagoing submarine Schley, which is designed to have a surface speed of 20 knots. The contract for the Schley was signed on March 19 last, and it calls for completion of the boat within 36 months of that date at a cost of $1,350,000.

Heavy Movable Artillery.

Progress is being made by the Army ordinance department looking to the production of heavy movable artillery for the military service, some of it of larger calibers than heretofore have been used in this country. A pilot 7.6-inch howitzer and split-trail carriage now are under manufacture, designs for a 9.5 inch howitzer are nearing completion and designs for a 11-inch howitzer are under way. The latter piece is to be adapted for transportation on a special vehicle drawn by a motor tractor. Still heavier ordnance for road transportation by tractors and still larger transportation on railway cars also are under design in a preliminary way. The size of the larger guns will be limited only by the means of transportation that can be devised for them. Some of them will be adapted to be fired from the transporting car, and others will be aranged so that they may be expeditiously removed from the car and placed for use. The primary purpose of the production of this large movable piece is defense of the coast line at places not protected by the present harbor-defense fortifications. The ordnance department has available for use in designing the pieces much data accumulated by its own officers and by observers abroad, the report of the board that met this year for the purpose of considering questions concerning the types of field guns and ammunition therefor, various reports and data gathered by the ordnance board, and data accumulated by the board maintained for the purpose of making a study of all features of guns, carriages, ammunition, fire-control instruments, range tables, and range charts, with the object of determining their probable effect upon the accuracy of fire with seacoast cannon.

Olympia, Wash., Alterations.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for enlarging drafting room and placing new skylight in the U. S. post office at Olympia, Wash.:

T. F. Casey & Co., Tacoma, Wash., $1,338; time 60 days.

White & Wright, Olympia, Wash., $1,600; time 40 days.

Missoula, Mont., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for the extension, remodeling, etc., of the U. S. post office and court house at Missoula, Mont.:

Olson & Johnson Co., Missoula, Mont., $121,995.

George A. Whitmeyer & Sons, Ogden, Utah, $129,966.

Sound Construction and Engineering Co., Seattle, Wash., $122,100.

J. B. Sweatt & Co., Rookery Building, Spokane, Wash., $137,493.

Frank L. Johnson & Co., 115 E. 7th street, Duluth, Minn., $150,682.

J. H. Wiese, Omaha, Neb., $138,240.

George W. Stiles Construction Co., Rookery Building, Chicago, Ill., $138,566.

Wm. H. Maxwell, Lakeside, Wash., $141,000.

Campbell Building Co. of Utah, Salt Lake City, Utah, $128,500.

MARE ISLAND, CAL.—Causeway, reinforced concrete, $500,000. Engineer, Bureau of Yards and Docks, Washington, D. C. Owners, United States Government. As a result of a conference between Secretary Daniels and Representative Curry of California, a causeway from Vallejo to Mare Island will doubtless be constructed very soon. This causeway will cost about $500,000, but it would soon save its cost because the Government could run railway cars loaded with material for the navy yard from Vallejo into the Mare Island shops, whereas now all such material has to be transported by boat and has to be handled twice.

Army Defensive Plans.

The Secretary of War has deemed it imperatively necessary to submit an estimate for an additional appropriation of $15,000 for the preparation of plans for fortifications and other works of defense, since it is for the continuance of work now in progress and of the first importance to the defense of the country. The regular estimate was made for $10,000, but in the preparation of defensive plans the urgent need for the amount of the additional estimate has recently become evident. In this connection Mr. Garrison says: "Recent experience in the actual preparation of plans also indicates the desirability of extending the scope of the appropriation to include reimbursement of actual expenses of travel by officers (in lieu of mileage), transportation of working parties, establishment of temporary camps, and hire of means of transportation for forces and materials incident thereto. In order to simplify and expedite field operations in connection with the preparation of defensive plans, it is recommended that this language be made applicable to the total amount estimated for, both in the above supplemental estimate and in the regular annual estimate, $25,000 in all."

HALLS AND SOCIETY BUILDINGS

Contracts Awarded.

RICHMOND, CONTRA COSTA CO., CAL.—City Hall, 2 story and base, brick and concrete, $25,000. Architects, Ogborn & Narbett, Richmond. Owners, City of Richmond. Contractors, Williams Bros. & Henderson, Holbrook Bldg., S. F. Contract price, $25,000.

SACRAMENTO, CAL.—Country Club, 2 story and base, frame and plaster, $35,000. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Del Paso Country Club. Contractor, William Murcell, Ochsner Bldg., Sacramento. Contract price, $35,000.

HOSPITALS

BERKELEY, ALAMEDA CO., CAL.—Dispensary, 1 story and base, frame, $6,000. Architect, Charles H. Cheney, Crocker Bldg., S. F. Owners, City of Berkeley. Location, 6th and University. will contain office, work space and reception room. Interior finish pine and hardwood. Exterior covered with cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Hospital, 3 story and base. Class A construction, $100,000. Architect, George A. Low, L. A. Owners, Los Angeles County. Location, County Hospital grounds. Designed for a ward for girls and will contain operating rooms, wards and private rooms. Interior finished in pine, hardwood and white enamel. Hardwood and tile floors. Steam heat, oil burning equipment and hospital plumbing. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

HOTELS

SAN FRANCISCO—Hotel alteration. Class C construction, $20,000. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, A. W. Wilson. Location, southwest corner Turk and Taylor. Work will consist of altering interior partitions and installing 64 bath rooms, interior trim, plastering and electric work. Exterior will be faced with cement plaster. Plans complete and bids under advisement.

SACRAMENTO, CAL.—Hotel, 2 story and base, brick. Cost not stated. Architect, none. Owner, Eugene Wachorst, 1629 M street, Sacramento. Location, 315 J street. Will contain storage space on the first floor and a number of hotel rooms above. Interior finish pine. Exterior pressed brick. Plans complete and work to be done by Day Labor.

IRRIGATION PROJECTS

REDDING, SHASTA CO., CAL.—Irrigation project, $180,000. Engineer's name not given. Owners, Anderson-Cottonwood Irrigation District. Bonds have been voted and engineers are now on the ground of the Anderson-Cottonwood Irrigation District, contemplating the improvements to be made. Ditches, canals and reservoirs are planned by the district. Further mention will be made of this work.

Contracts Awarded.

BYRON, CONTRA COSTA CO., CAL.—Irrigation pumping equipment. Cost not stated. Engineer's name not given. Owners, Byron-Bethany Irrigation District. Contractors, Yuba Construction Co., Yuba City. Contract price not stated.

LIBRARIES

HOLLYWOOD, LOS ANGELES CO., CAL.—Library, 1 story and base, brick, $29,000. Architect, Charles H. Russell, Union League Bldg., L. A. Owners, City of Hollywood. Will contain reading rooms, stack rooms and special rooms for children. Basement will contain an auditorium seating 400 people. Interior finish pine and hardwood with hardwood and tile floors. Steam heat and vacuum cleaning. Metal book stacks. Exterior faced with pressed brick. Plans being prepared.

RESIDENCES.

SAN FRANCISCO—Residences, 3, 2 story and base, frame, $1,500 each. Architect, none. Owner, L. Aydukovich, 1278 Hollister avenue, S. F. Location, east 46th avenue north of Judah. Each will contain five rooms and bath. Interior finish pine and redwood. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 1½ story and base, frame, $2,000. Architect, none. Owner, P. W. Montrouil, 270 Andover street, S. F. Location, west Bryant north of Army. Will contain six rooms and bath. Interior finish pine with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner, Joseph Deheau, 765 Haight street, S. F. Location, east 16th avenue north of Quintara. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

OAKLAND, CAL — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, J. E. Denton, Redwood Road and Central avenue, Oakland. Location, south Sheridan east of Redwood Road. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Bath room tile and composition. Furnace heat and automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont. Will contain nine rooms, several baths and sleeping porch. Separate garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,750. Architect, none. Owner, V. N. Strang, 1521 9th street, Oakland. Location, south Lake View avenue west of Elliott. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, F. W. Fry, 5380 Shafter avenue, Oakland. Location, east Shafter avenue south of Hudson. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, B. F.

Butler and George Aylworth, 333A 49th street, Oakland. Location, east Grant south of Hearst. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Frank W. Burger, 858 52nd street, Oakland. Location, north 52nd west of Genoa. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic anad cement plaster. Plans complete and work by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame. Cost not stated. Architect, none. Owner, W. D. McKoy, 3029 E street, Sacramento. Location, 2999 U street. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,800. Architect, none. Owner, H. H. Hawley, Fresno. Location, 3552 Balch avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine hardwood with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,850. Architect. none. Owners, Central California Land and Improvement Co., Fresno. Location, La Sierra Tract. Will contain seven rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HOLLISTER, SAN BENITO CO., CAL.—Residence, 2 story and base, concrete and frame, $25,000. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, Washington Hawkins, Hollister. Location, near Hollister. Will contain fourteen rooms, several baths and sleeping porches. Separate garage on property. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors except in the baths which will be finished in tile. Central heating system and hot water supply. Open fire places and tile, brick and stone mantels. Exterior covered with cement plaster. Plans being prepared.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame and plaster, $25,000. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Location, Oak Knoll. Will contain a large number of rooms, several baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Bath rooms finished in tile. Central heating system and hot water supply. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

LOS ANGELES, CAL.—Residence, 2 story and base, frame, $15,000. Architect, none. Owner, Charles D. Wagner, Story Bldg., L. A. Location, La Fayette Square. Will contain twelve rooms, three baths, laundry and servants' quarters. Separate garage. Interior finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors and open fire places. Mantels tile or brick. Furnace heat and hot water circulating system. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,100. Architect, none. Owner, T. O. Morse, 3040 Halcyon, Berkeley. Location, west Spring south of Rose. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, M. M. Jelladian, 156 Isabella, Fresno. Location, Woodwards Addition. Will contain five rooms, bath and sleeping porch. Interior finish pine. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $4,500. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name withheld. Location, Parkside. Will contain nine rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame and plaster, $30,000. Architects, Foss Designing and Building Co., 100 East Colorado street, L. A. Owner, E. H. Story. Contractors, Foss Designing and Building Co. Contract price, $30,000.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, H. H. Whileley, Story Bldg., L. A. Owner, George A. Lewis. Contractors, Cooper-Pyle-Clopin Co., L. A. Contact price not stated.

PLEASANT GROVE, SUTTER CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, R. A. Herold, Forum Bldg., Sacramento. Owner, F. M. Van Dyke. Contractor, Jacob Lucas, Lincoln. Contract price, $5,000.

RED BLUFF, TEHAMA CO., CAL.—Residence, 2 story and base, concrete block, $6,500. Architect, R. A. Herold, Forum Bldg., Sacramento. Owner, George N. Vestal, Red Bluff. Contractor, J. J. Fretz, 906 Franklin street, Red Bluff. Contract price, $6,500.

RAILROAD CONSTRUCTION AND EQUIPMENT.

SAN FRANCISCO — Railroad construction. Cost not stated. Engineer, City Engineer, Temporary City Hall. Owners, City and County of San Fancisco. Bids will be eceived until January 17th for the construction of that portion of the Church Street Municipal line between 16th and 18th streets. Plans can be secured from the City Engineer.

MARTINEZ, CONTRA COSTA CO., CAL.—Passenger station, 1 story and base, reinforced concrete. Cost not stated. Engineer, Engineering Department Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Designed in the Mission style and will contain two waiting rooms, baggage and express rooms and agent's office. Interior finish pine. Cement floor. Steam heat. Exterior faced with cement plaster. Clay tile roof. Plans complete and figures being taken.

MARTINEZ, CONTRA COSTA CO., CAL.—Railroad construction. Cost not stated. Engineer, P. A. L. Engelbrecht, Martinez. Owners, Shell Oil Co. Plans have been completed and work will start within a few days on the building of the narrow gauge railroad line through the plant of the Shell Co. The railroad will extend into all parts of the works and will particularly connect the cannery and packing houses with the shipping station on land and the wharf head for the loading of steamers.

SEWERS, STREET WORK & WATER SYSTEMS

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $21,597.01. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council at their last meeting adopted plans and specifications and issued a call for bids for the construction of sewers in South, First, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth, Linden, Oso, Aurora, Grant, Stanislaus, American, California, Sutter, San Joaquin, Hunter and El Dorado streets, McKinley and Peralta avenues, East Sutter and West Sutter streets. Further information together with plans and specifications may be had from the City Engineer at Stockton.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $4,643.98. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications for storm sewers on East street from a point 34 feet 8 inches south of the center line of Sonora street to the Mormon channel were approved and a resolution calling for bids passed. Plans and full information may be had from the City Engineer at Stockton.

SANTA CLARA, SANTA CLARA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Santa Clara. Owners, City of Santa Clara.

Bonds have been voted and money is now available for the improvement of the streets in this city. Nearly four miles of streets are to be paved. The project includes the paving of the State Highway on both ends, the Homestead road, Lexington and Lincoln streets to Franklin. Plans for the work will be ordered shortly and when complete bids on the work will be called for.

SOUTH SAN FRANCISCO, SAN MATEI CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. At the last meeting of the City Trustees a resolution rejecting all bids for constructing oiled macadam streets, artificial stone sidewalks, curbs and gutters and laying lateral sewers in a tract of land near Baden station was adopted, and Clerk Smith was directed to advertise for new bids on the work. New bids will be opened on January 17th. E. H. Sundberg, 215 Oakland Bank of Savings Bldg., Oakland, presented the low bid for this work at $88,599.35.

FRESNO, FRESNO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Trustees have instructed the City Engineer to purchase material for enlarging the culverts of Merced street at J and I streets. This will consist in putting in a culvert 36 inches wide and 12 inches deep from the Risley Building across J street to the Shaver Building. The same will be done from the City Hall corner to the Hotel Fresno Building.

PETALUMA, SONOMA CO., CAL.—Sidewalks. Cost not stated. Engineer's name not given. Owners, City of Petaluma. The City Board of Education has issued a call for bids for the construction of sidewalks around the new high school building. Further information may be had from the secretary of the board at Petaluma.

RICHMOND, CONTRA COSTA CO., CAL. — Boulevard construction. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. Preliminary plans for a scenic boulevard, extending from the south portal of the Municipal tunnel to the Standard Oil Company's cut, a distance of three miles, have been completed and presented to the City Council for approval. According to plans the boulevard will be fifty feet wide at the tunnel approach which will shorten to forty feet at the intersection of Washington avenue. When action is taken by the Council further mention will be made of this work.

SAN RAFAEL, MARIN CO., CAL.—Road contruction. $15,000. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors it was decided that bids would be called at the February meeting for the building of the road from Willow Camp around the beach. Further mention will be made of this work when the bids have been called.

MARTINEZ, CONTRA COSTA CO., CAL.—Sewer main. Cost not stated. Engineer, City Engineer, Martinez. Owners, Town of Martinez. At the last meeting of the City Trustees plans and specifications were ordered prepared for the installation of a sewer main in Thompson street between Berryessa and Smith streets. Bids on the work will be called when the plans are complete.

SAUSALITO, MARIN CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. Plans and specifications for Sewer District D-2 are now ready for the approval of the Board of Town Trustees. Following the approval of the board bids on the work will be called.

FRESNO, FRESNO CO., CAL. Street paving and sidewalks, $80,000. Engineer, City Engineer, Fresno. Owners, City of Fresno. The first step for pavements and sidewalks to cost about $80,000 in Alta Vista Tract was taken by the City Council at their last meeting in the passage of a resolution of intention. The work will be done on First street, from Tulare to Ventura: on Kerckhoff, from 1st to 8th streets: on Ventura, from R to 6th streets, and on 6th street, from Tulare to Ventura streets. The Pacific Improvement Co., controlling property in the same tract, was granted permission to lay sidewalks by private contract in blocks 4, 5 and 6 along Balch avenue. So that all street work will be uniform, an ordinance permitting sidewalks to extend to the property line will be drafted.

Contracts Awarded.

SAN JOSE, SANTA CLARA CO., CAL.—Highway construction, $44,430. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. Contractors, Clark & Henery, Ochsner Bldg., Sacramento. Contract price, $44,430.

SALINAS, MONTEREY CO., CAL.—Road grading and impovement, $2,314.95. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractor, C. W. Rowe, Salinas. Contract price, $2,314.95.

DALY CITY, SAN MATEO CO., CAL.—Street paving, $131,014.36. Engineer, City Engineer, Daly City. Owners, Daly City. Contractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract price, $131,014.36.

SACRAMENTO, CAL.—Pump, $20,000. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Power Equipment Co., Rialto Bldg., S. F. Contact price, $20,000.

SCHOOLS

OAKLAND, CAL.—School addition, 1 story, frame, $3,500. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, City of Oakland. Designed as a four-room addition to the Highland School. Interior finish pine. Heating system from present building to be extended. Exterior covered with cement plaster. Plans being prepared.

SAN BRUNO, SAN MATEO CO., CAL.—School heating and ventilating. Cost not stated. Architect, none. Owners, Town of San Bruno. Bids will be received until January 18th for the construction and installation of a heating and ventilating system in the San Bruno Park School. Complete information can be secured from the Clerk of the Board of School Trustees at San Bruno.

SAN JOSE, SANTA CLARA CO., CAL.—School addition, frame construction, $15,432. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. The Western Building and Engineering Co., Phelan Bldg., S. F., pesented the low figures for this work at $15,432 and will be awarded the contract. A complete list of the bids received was printed under the heading of San Jose and the Santa Clara Valley in last week's issue.

LOS ANGELES, CAL.—School, 4 story and base. Class A construction, $100,000. Architect, John O. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. Location, Knoll between Wilshire and Pico streets, covering an area of 344 by 70 feet. Complete steel frame, reinforced concrete floors and stairways. Designed for a high school. Interior finish pine and metal trim. Exterior faced with pressed brick. Plans nearly complete.

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick, $110,000. Architects, Carl Werner, associated with Charles E. J. Rogers, Phelan Bldg., S. F. Owners, City of Alameda. Location, Alameda avenue between Walnut and Oak streets, covering an area of 244 by 174 feet. Will contain twenty class rooms, auditorium seating 1200 people, teachers' rooms, principal's office and play rooms. Interior finish pine with maple floors. Steam heat, oil burning system and vacuum cleaning. Exterior faced with pressed brick. Plans complete and bids to be called for shortly.

BELLINGHAM, WASH. — School, 2 story and base. Class A construction, $94,409. Architects, Heath & Gove, National Bank Bldg., Tacoma. Owners, City of Bellingham. The Sound Construction Co., Lowman Bldg., Seattle, presented the low bid for the construction of this building and will probably be awarded the contract.

STORES AND OFFICES.

OAKLAND, CAL.—Store, 1 story and base, brick, $3,500. Architect, none. Owner, Mary Sueel, 2525 Adeline street, Oakland. Location, south 7th street west of Webster. Will contain one store. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and owner taking figures from non-union contractors.

Contracts Awarded.

PETALUMA, SONOMA CO., CAL.—Store, 1 story and base, reinforced concrete. Cost not stated. Architect, none. Owner, Joseph M. Bush, Petaluma, leased to C. E. Hallett. Contractor, W. J. Meeker, Petaluma. Contract price not stated.

Hygienic Baking Co., 3700 Geary St., has filed application with the Supervisors for permission to install and maintain an engine and two 25-horse power boilers to be used in furnishing power for baking purposes.

The North of the Panhandle Improvement Club has requested the Supervisors to appropriate $2,400 for the repaving of Hayes street between Broderick and Baker streets.

OFFICIAL PROPOSALS.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1003 — Proposals for Staybolt Iron, Switchpoints, Cast Iron Wheels, Brake Beams, Manganese Steel Dipper Lips, Nickel Chrome Steel Dipper Teeth, Meat Storage Track System, Roof Ventilators, Cast Iron Lamps and Brackets, Bolts, Mule Shoes, Toe Calks, Bronze Bars, Copper Bars, Brass Nuts, Sheet Lead, Gage Valves, Grease Cups, Whitewash Brushes, Scrub Brushes, Duster Brushes, Leather Belting, Rubber Valves, Hose, Packing, Asbestos Gaskets, Sash Cord, Plumbbob Cord, Burlap, Cheesecloth, Bunting, Cotton Canvas, Tarpaulins, Rubbing Felt, Marline, Emery Cloth, Sandpaper, Oilcloth, Magnesia Pipe Covering, Butcher's Blocks, Window Glass, Teaspoons, Granulated Cork, Lump Chalk, Calcium Carbide, Lye, Potassium Chlorate, Metal Polish, Soap, Memorandum Books, Cardboard and Paper.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 24, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1003) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR LIGHTERING.

LIGHTERING—Sealed proposals will be opened by the light house inspector, Ketchikan, Alaska, at **2 o'clock p. m. January 31, 1916,** for lightering about 400 tons of miscellaneous freight from Katella anchorage to Cape St. Elias Light Station, Alaska. Specifications and forms for proposal may be secured by applying to above officer or to the postmasters at Katella, Seward or Cordova, Alaska.

PROPOSALS FOR CANAL SALE.

PANAMA CIRCULAR 1001—Office of the General Purchasing Officer, Panama Canal, Washington, D. C.—Sealed proposals will be received here until **February 11, 1916,** under circular 1001 for the sale of the following locomotives: 24 101 class, 19 201 class, 37 301 class and 13 601 class. For further information address F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR FIRE ESCAPE.

Notice to Contractors.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Thursday, January 27th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials and labor; and doing the work required to complete the New Fire Escape for the Manual Arts Building, California School for Deaf and Blind, Berkeley, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms pepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Five ($5.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids, and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Poposal for Fire Escape, California School for Deaf and Blind, Berkeley, California."

(Signed) W. F. McCLURE,
State Engineer.

PROPOSALS FOR EXCAVATING.

EXCAVATING—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. reclamation service, Montrose, Colo., until **4 o'clock p. m. January 18, 1916,** for the construction of about nine and one-half miles of the Peach Valley lateral, Uncompahgre Valley project, in the vicinity of Austin, Colo. The work involves the excavation of about 56,200 cubic yards of material in open cut. For particulars address the U. S. reclamation service, Montrose, Colo.; Tramway Building, Denver, Colo., or Washington, D. C. WILL R. KING, acting director.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 998 — Steel, Iron, Pig Iron, Chain, Steel Cable, Wire, Horseshoes, Toe Calks, Sheet Tin, Track Frogs, Steel and Iron Castings, Manganese Steel Dipper Lips, Track Spikes, Nails, Bolts, Rivets, Missing Links, Chain Shackles, Cable Clips, Turnbuckles, Stovepipe, Babbitt Metal, Bronze, Brass, Copper, Copper Tubing, Brass Tubing, Pig Lead, Sheet Lead, Lead Washers, Lead Pipe, Sheet Zinc, Shovels, Taps, Pipe Tongs, Foot Bolts, Hinges, Valves, Sanitary Fixtures, Wagon Rims and Spokes, Manila Rope, Leather, Crayons, Silica Sand, Fire Clay, Foundry Clay, Silica Grit, Calcium Chloride, Ash Soda, Pitch, Alumina Sulphate, White Zinc, White Lead, Lard Oil, Linseed Oil, Neat's-foot Oil, Turpentine Substitute, Fish Oil, Paints, and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 8, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 998) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 16, 1915.—SEALED PROPOSALS will be opened in this office **at 3 P. M., January 27, 1916,** for the construction complete (including mechanical equipment and approaches) of the United States Post Office at Ellensburg, Wash. Drawings and specifications may be obtained from the custodian of site at Ellensburg, Wash., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1000 — Proposals for Galvanized Sheet Steel or Iron, Spring Steel, Locomotive Tires, Steel and Iron Pipe, Pipe Fittings, Rivets, Bolts, Cotters, Screws, Tacks, Sheet Zinc, Valves, Hose Couplings, Hose Nozzles, Brass Chain, Hinges, Hasps, Door Bolts, Locks, Bed Knobs, Tool Handles, Mop Handles, Ladders, Corn Brooms, Stable Brooms, Manure Forks, Grindstones, Coal Baskets, Chain Blocks, Snatch Blocks, Tackle Blocks, Tallow Pots, Locomotive Oilers, Oil Cans, Lubricators, Steam Gauges, Lanterns, Lantern Globes, Porthole Glasses, Torches, Electric Detonators, Electrical Attachments, Reflectors, Electric Fixtures, Panel Board, Carbon Brushes, Electric Wire, Bed Casters, Rules, Metallic Tapes, Scythe Stones, Fire Brick, Magnesia Boiler Lagging, Railway Flags, Pencils, Crayon, Blank Books and Paper.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 17, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1000) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—3, 2 story and base, frame, $1,500 each. San Francisco. Architect, none. Owner, L. Aydukovich, 1238 Hollister avenue, S. F. Location, east 46th avenue north of Judah. Each will contain five rooms and bath. Interior finish pine and redwood. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1½ story and base, frame, $2,000. San Francisco. Architect, none. Owner, P. W. Montrouil, 270 Andover street, S. F. Location, west Bryant north of Army. Will contain six rooms and bath. Interior finish pine with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner, Joseph Dubeau, 765 Haight street, S. F. Location, east 16th avenue north of Quintara. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 story and base, steel and brick. Cost not stated. San Francisco. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, S. H. Wood. Location, southeast corner of Sutter and Leavenworth. Will contain a number of two and three room apartments with private bath and wall beds. Interior finish pine, hardwood and white enamel. Hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Bath rooms tile and composition. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame, $30,000. San Francisco. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, San Francisco Investment Co. Location, Hayes street near the Panhandle. Will contain 96 rooms, arranged in two, three and four room suites. Interior finish pine and hardwood. Hardwood and tile floors. Steam heat and hot water supply. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster on metal lath. Plans being prepared.

APARTMENT HOUSE—4 story and base, brick and steel, $35,000. San Francisco. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, east Hyde south of Bush. Will contain nineteen apartments of two and three rooms with private baths and wall beds. Interior finish pine and elm. Hardwood floors. Steam heat, hot water system and vacuum cleaning. Bath rooms tile and composition. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

APARTMENT HOUSE—3 story and base, frame, $14,000. San Francisco. Architect, none. Owner, Michael Dempniak, 728 Page street, S. F. Location, north Jackson east of Polk, covering an area of 22½ by 90 feet. Will contain six apartments of two and three rooms. Interior finish pine and hardwood veneer with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile and composition. Wall beds. Marble wainscot. Exterior brick veneer and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Karl Yngve, 133 Alpine street, S. F. Location, west Stanyan north of Parnassus. Will contain two modern flats of five and six rooms. Interior finished in pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $6,000. San Francisco. Architect, none. Owner, E. Bourne, 3631 17th street, S. F. Location, north 18th street east of Guerrero. Will contain three modern flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2, 2 story and base, frame, $4,900 each. San Francisco. Architect, none. Owner, H. C. Keenan, 300 Webster street, S. F. Location, east 21st avenue south of California. Each building will contain two modern flats of six rooms and bath. Basement garage. Interior finish pine and elm with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $3,800. San Francisco. Architect, none. Owner, Alfred Johnson, 2423 Clement street, S. F. Location west 24th avenue south of Clement. Will contain two flats of five and six rooms. Interior finish pine and southern gum. Hardwood floors. Open fire place and tile or brick mantel. Tile bath rooms. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RAILROAD CONSTRUCTION — Cost not stated. San Francisco. Engineer, City Engineer, Temporary City Hall. Owners, City and County of San Francisco. Bids will be received until January 17th for the construction of that portion of the Church Street Municipal line between 16th and 18th streets. Plans can be secured from the City Engineer.

DAIRY AND STABLES—1 and 2 story and base, brick, $30,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, San Francisco Dairy Co. Location, south Turk street west of Steiner, covering an area of 50 by 137½ feet. Will contain office, local sales room, plant and stable for 30 horses. Concrete floors. Patent store fronts and marble bases. Interior finish pine. Steam heat. Special boiler equipment and machinery not included in general contract. Exterior faced with pressed brick. Plans complete and contract to be awarded.

FACTORY BRANCH—5 story and base, reinforced concrete. Cost not stated. San Francisco. Architects, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Local representative, G. F. Wieland, Claus Spreckles Bldg., S. F. Owners, Willys-Overland Co., leased to J. W. Leavitt Co. Contractors, Leonard Construction Co., Chicago, Ill. Contract price not stated. Note: Subfigures will be taken on all parts of the work.

HOTEL ALTERATION—Class C construction, $20,000. San Francisco. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, A. W. Wilson. Location, southwest corner Turk and Taylor. Work will consist of altering interior partitions and installing 64 bath rooms, interior trim, plastering and electric work. Exterior will be faced with cement plaster. Plans complete and bids under advisement.

RESIDENCE — , story and base, frame, $4,500. San Francisco. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name witheld. Location, Parkside. Will contain nine rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, E. A. Schumacher, Nevada Bank Bldg., S. F. Owner, Charles Pederson. Location, east 11th avenue south of Geary. Will contain two flats of five and six rooms with baths. Interior finish pine and southern gum. Hardwood floors, open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with cement

plaster and shiplap. Plans complete and work by Day Labor.

FLATS—2 story and base, frame, $6,500. San Francisco. Architect, Alfred Henry Jacobs, 110 Sutter street, S. F. Owner, Myrtle T. Cert. Location, 13th avenue near California. Will contain two flats of six and seven rooms, baths and basement garage. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exterior cement plaster on metal lath. Plans being prepared.

FIRE HOUSE—2 story and base. Class C, $32,000. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, north Howard between First and Second. Plans have been officially approved and bids will be called for at once.

HALL OF JUSTICE ELEVATOR—$3,490. San Francisco. Architect, City Department of Architecture, Temporary City Hall, S. F. Owners, City and County of San Francisco. The Otis Elevator Co. submitted the low bid for installing an elevator in the Hall of Justice. A complete list of the bids received will be found under the heading of San Francisco in this issue.

Contracts Awarded.

FOUNDRY BUILDING—1 story, reinforced concrete and steel, $100,000. San Francisco. Architect, none. Owners, Union Iron Works, S. F. Contractors, Van Sant-Houghton Co., Hooker-Lent Bldg., S. F. Contract price, $100,000.

City Bids Opened.

Board of Works Calls For Figures on Church Street Road and Receives Bids For Elevator.

At the regular Wednesday meeting of the San Francisco Board of Public Works plans and specifications were approved for the construction of the Church Street Municipal Railroad, from 16th to 18th streets, and bids were ordered advertised. January 17th was set as the day for opening bids. Figures were opened for the installation of an electric elevator in the Hall of Justice as follows:

Passenger Elevator.

	Prop. 1	Prop. 2	Prop. 3
E. Carlson	$.....	$9400	$....
Pacific Gurney Elev. Co.	.....	....	4175
Spencer Elev. Co.	.....	....	4350
Otis Elev. Co.	.....	....	3490
D. Graham	.....	7870	....
T. W. McClenahan	.....	$200	....
C. L. Wold	.....	9325	....
C. S. Mulford	.....	$400	....
W. Newsom	11,291	7791	3500

OAKLAND AND ALAMEDA COUNTY.

RESIDENCE — 1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. E. Denton, Redwood Road and Central avenue, Oakland. Location, south Sheridan east of Redwood Road. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors, open fire places and tile mantels. Bath room tile and composition. Furnace heat and automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. Piedmont, Alameda Co., Cal. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont. Will contain nine rooms, several baths and sleeping porch. Separate garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $2,750. Oakland, Cal. Architect, none. Owner, V. N. Strang, 1521 9th street, Oakland. Location, south Lake View avenue west of Elliott. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, F. W. Fry, 5380 Shafter avenue, Oakland. Location, east Shafter avenue south of Hudson. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, B. F. Butler and George Aylworth, 333A 49th street, Oakland. Location, east Grant south of Hearst. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile. Automatic Water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Frank W. Burger, 858 52nd street, Oakland. Location, north 52nd west of Genoa. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $10,000. Oakland, Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, David McLaughlin. Location, west Grove north of 17th street. Will contain six suites of three rooms and bath. Interior finished in pine and white enamel. Some hardwood floors. Steam heat and hot water system. Tile bath rooms. Marble wainscot. Exterior covered with rustic and cement plaster. Plans complete and sub-figures being taken by John Bartlett, 565 16th street. Sub-figures are also being taken on a similar building to be erected on 17th street west of Grove.

APARTMENT HOUSE—3 story and base, frame, $35,000. Berkeley, Alameda Co., Cal. Architect, Walter H. Parker, 12 Geary street, S. F. Owner's name not given. Location, southeast corner of College and Ashby. Will contain stores on the first floor and a total of 46 rooms, arranged in two and three room apartments on the upper floors. Interior finish pine and elm panels with hardwood floors. Private baths and wall beds. Steam heat and a hot water system. Bath rooms tile. Marble and tile entrance. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owners, Collins Bros., 825 51st street, Oakland. Location, 19th street west of 4th avenue. Will contain 24 rooms arranged in two and three room suites with private baths and wall beds. Interior finish pine and elm with some hardwood floors. Steam heat and a hot water system. Bath rooms tile. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

SCHOOL ADDITION—1 story, frame, $3,500. Oakland, Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, City of Oakland. Designed as a four-room addition to the Highland School. Interior finish pine. Heating system from present building to be extended. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—2 story and base, brick, $110,000. Alameda, Alameda Co., Cal. Architects, Carl Werner, associated with Charles E. J. Rogers, Phelan Bldg., S. F. Owners, City of Alameda. Location, Alameda avenue between Walnut and Oak streets, covering an area of 244 by 174 feet. Will contain twenty class rooms, auditorium seating 1200 people, teachers' rooms, principal's office and play rooms. Interior finish pine with maple floors. Steam heat, oil burning system and vacuum cleaning. Exterior faced with pressed brick. Plans complete and bids to be called for shortly.

RESIDENCE — 2 story and base, frame, $3,100. Berkeley, Alameda Co., Cal. Architect, none. Owner, T. C. Morse, 3040 Halcyon, Berkeley. Location, west Spring south of Rose. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

MACHINE SHOP AND STORE HOUSES—2, 2 story, frame, $2,500. Oakland, Cal. Architect, none. Owners, Hanlon Dry Dock and Ship Building Co., Oakland. Location, west 5th avenue near 1st street. Designed for a machine shop and warehouse. No interior trim. Exterior cavered with corrugated iron. Plans complete and work to be done by Day Labor.

WAREHOUSE—1 story, frame, $1,000. Oakland, Cal. Architect, none.

Friermuth & Price
Civil Engineers & Surveyors
Crocker Building
San Francisco, California

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
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Observation Cars.
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San Francisco Depot Key Route Ferry

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Owner, J. C. Baker, 5056 Fairfax avenue, Oakland. Location, west Magnolia north of 22nd street. Cement floor. Exterior corrugated iron. Plans complete and work by Day Labor.

DISPENSARY—1 story and base, frame, $6,000. Berkeley, Alameda Co., Cal. Architect, Charles H. Cheney, Crocker Bldg., S. F. Owners, City of Berkeley. Location, 6th and University. Will contain office, work space and reception rooms. Interior finish pine and hardwood. Exterior covered with cement plaster. Plans being prepared.

STORE—1 story and base, brick, $3,500. Oakland, Cal. Architect, none. Owner, Mary Sueel, 2525 Adeline street, Oakland. Location, south 7th street west of Webster. Will contain one store. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and owner taking figures from non-union contractors.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET IMPROVEMENT—Cost not stated. Santa Clara, Santa Clara Co., Cal. Engineer, City Engineer, Santa Clara. Owners, City of Santa Clara. Bonds have been voted and money is now available for the improvement of the streets in this city. Nearly four miles of streets are to be paved. The project includes the paving of the State Highway on both ends, the Homestead road, Lexington and Lincoln streets to Franklin. Plans for the work will be ordered shortly and when complete bids on the work will be called for.

STREET PAVING—Cost not stated. South San Francisco, San Mateo Co., Cal. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. At the last meeting of the City Trustees a resolution rejecting all bids for constructing oiled macadam streets, artificial stone sidewalks, curbs and gutters and laying lateral sewers in a tract of land near Baden station was adopted, and Clerk Smith was directed to advertise for new bids on the work. New bids will be opened on January 17th. E. H. Sundberg, 215 Oakland Bank of Savings Bldg, Oakland, presented the low bid for this work at $38,599.35.

RESIDENCE — 2 story and base, concrete and frame, $25,000. Hollister, San Benito Co., Cal. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, Washington Hawkins, Hollister. Location, near Hollister. Will contain fourteen rooms, several baths and sleeping porches. Separate garage on property. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors except in baths which will be finished in tile. Central heating system and hot water supply. Open mantels. Exterior covered with cement fire places and tile, brick and stone plaster. Plans being prepared.

SCHOOL ADDITION — Frame construction, $15,432. San Jose, Santa Clara Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. The Western Building and Engineering Co., Phelan Bldg., S. P., presented the low figures for this work at $15,432 and will be awarded the contract. A complete list of the bids received was printed under the heading of San Jose and the Santa Clara Valley in last week's issue.

SCHOOL HEATING AND VENTILATING—Cost not stated. San Bruno, San Mateo Co., Cal. Architect, none. Owners, Town of San Bruno. Bids will be received until January 18th for the construction and installation of a heating and ventilating system in the San Bruno Park School. Complete information can be secured from the Clerk of the Board of School Trustees at San Bruno.

BRIDGE—Reinforced concrete, $1,834. Santa Cruz, Santa Cruz Co., Cal. Engineer, County Surveyor, Santa Cruz. Owners, Santa Cruz County. At the last meeting of the County Supervisors bids were opened for the construction of the proposed bridge near Granite Creek, and all being too high were rejected. The work was then ordered under the supervision of the County Surveyor.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $44,430. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. Contractors, Clark & Henery, Ochsner Bldg., Sacramento. Contract price, $44,530.

ROAD GRADING AND IMPROVEMENT—$2,314.95. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractor, C. W. Rowe, Salinas. Contract price, $2,314.95.

STREET PAVING—$131,014.36. Daly City, San Mateo Co., Cal. Engineer, City Engineer, Daly City. Owners, Daly City. Contractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract price, $131,014.36.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SIDEWALKS—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer's name not given. Owners, City of Petaluma. The City Board of Education has issued a call for bids for the construction of sidewalks around the new high school building. Further information may be had from the secretary of the board at Petaluma.

BOULEVARD CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., al. Engineer, City Engineer, Richmond. Owners, City of Richmond. Preliminary plans for a scenic boulevard, extending from the south portal of the Municipal tunnel to the Standard Oil Company's cut, a distance of three miles, have been completed and presented to the City Council for approval. According to plans the boulevard will be fifty feet wide at the tunnel approach, which will shorten to forty feet at the intersection of Washington avenue. When action is taken by the Council further mention will be made of this work.

COURT HOUSE WIRING—Cost not stated. San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. Bids will be received until February 8th for electric wiring in the Court House at San Rafael. Plans can be secured from Eugene Bogle, San Rafael.

CHURCH—1 story and base, frame, $5,500. Concord, Contra Costa Co., Cal. Architect, Francis W. Reid, Walnut Creek. Owners, Concord Presbyterian Church. Designed in the Mission style and will contain main auditorium and Sunday school rooms. Interior finish pine. Art glass windows. Exterior covered with cement plaster. Plans

being prepared and figures to be called for at once.

CAUSEWAY — Reinforced concrete, $500,000. Mare sland, Cal. Engineer, Bureau of Yards and Docks, Washington, D. C. Owners, United States Government. As the result of a conference between Secretary Daniels and Representative Curry of California, a causeway from Vallejo to Mare sland will doubtless be constructed very soon. This causeway will cost about $500,000, but it would soon save its cost because the Government could run railway cars loaded with material for the navy yard from Vallejo into the Mare Island shops, whereas now all such material has to be transported by boat and has to be handled twice.

RAILROAD CONSTRUCTION — Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, P. A. L. Engelbrecht, Martinez. Owners, Shell Oil Co. Plans have been completed and work will start within a few days on the building of the narrow gauge railroad line through the plant of the Shell Co. The railroad will extend into all parts of the works and will particularly connect the cannery and packing houses with the shipping station on land and the wharf head for the loading of steamers.

ROAD CONSTRUCTION — $15,000. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors it was decided that bids would be called at the February meeting for the building of the road from Willow Camp around the beach. Further mention will be made of this work when the bids have been called.

SEWER MAIN—Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, City Engineer, Martinez. Owners, Town of Martinez. At the last meeting of the City Trustees plans and specifications were ordered prepared for the installation of a sewer main in Thompson street between Berryessa and Smith streets. Bids on this work will be called when the plans are complete.

SEWER CONSTRUCTION—Cost not stated. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. Plans and specifications for Sewer District D-2 are now ready for the approval of the Board of Town Trustees. Following the approval of the board bids on the work will be called.

PASSENGER STATION—1 story and base, reinforced concrete. Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, Engineering Department Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Designed in the Mission style and will contain two waiting rooms, baggage and express rooms and agent's office. Interior finish pine. Cement floor. Steam heat. Exterior faced with cement plaster. Clay tile roof. Plans complete and figures being taken.

Contracts Awarded.

TANKS—Redwood, $40,000. Pittsburg, Contra Costa Co., Cal Engineer, none. Owners, Hercules Powder Co. Contractors, Redwood Manufacturing Co., 179 Bryant street, S. F. Contract price, $40,000.

IRRIGATION PUMPING EQUIPMENT—Cost not stated. Byron, Contra Costa Co., Cal. Engineer's name not given. Owners, Byron-Bethany Irrigation District. Contractors, Yuba Construction Co., Yuba City. Contract price not stated.

CITY HALL—2 story and base, brick and concrete, $25,000. Richmond, Contra Costa Co., Cal. Architects, Ogborn & Narbett, Richmond. Owners, City of Richmond. Contractors, Williams Bros. & Henderson, Holbrook Bldg., S. F. Contract price, $25,000.

STORE—1 story and base, reinforced concrete. Cost not stated. Petaluma, Sonoma County Cal. Architect, none. Owner, Joseph M. Bush, Petaluma, leased to C. E. Hallett. Contractor, W. J. Meeker, Petaluma. Contract price not stated.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

STREET IMPROVEMENT—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Trustees have instructed the City Engineer to purchase material for enlarging the culverts of Merced street at J and I streets. This will consist in putting in a culvert 36 inches wide and 12 inches deep from the Risley Building across J street to the Shaver Building. The same will be done from the City Hall corner to the Hotel Fresno Building.

RESIDENCE — 1 story and base, frame, $2,800. Fresno, Fresno Co., Cal. Architect, none. Owner, H. H. Hawley, Fresno. Location, 3552 Balch avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE —1 story and base, frame, $2,850. Fresno, Fresno Co., Cal. Architect, none. Owners, Central California Land and Improvement Co., Fresno. Location, La Sierra Tract. Will contain seven rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Fresno, Fresno Co., Cal. Architect, none. Owner, M. M. Jelladian, 156 Isabella, Fresno. Location, Woodwards Addition. Will contain five rooms, bath and sleeping porch. Interior finish pine. Hardwood floors and open fire place. Mantel tile or brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

IRRIGATION WORK—$2,400. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer Herrmann, Modesto. Owners, Modesto Irrigation District. Bids for the contract of constructing the Weldy-Jones fill for the Modesto Irrigation District when opened by the board of directors of the district were in excess of the estimated cost of the work, and by order of the board all were rejected. Superintendent Nels Hansen was instructed to proceed with the work on the day's pay basis with the district handling the work entirely. The four bids offered and rejected are as follows: A. L Halverson, $3,204; T. B. Beeson, $3,337.50; Tieslau Bros., 110 Jessie street, S. F., $2,990.40; Jas. Willison, Half Moon Bay, $3,991.65.

STREET PAVING AND SIDEWALKS —$80,000. Fesno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The first step for pavements and sidewalks to cost about $80,000 in Alta Vista Tract was taken by the City Council at their last meeting in the passage of a resolution of intention. The work will be done on First street from Tulare to Ventura; on Kerckhoff from 1st to 8th streets; on Ventura from R to 6th streets, and on 6th street from Tulare to Ventura streets. The Pacific Improvement Co., controlling property in the same tract, was granted permission to lay sidewalks by private contract in blocks 4, 5 and 6 along Balch avenue. So that all street work will be uniform, an ordinance permitting sidewalks to extend to the property line will be drafted.

MODESTO, STANISLAUS CO., CAL.—Irrigation work, $2,400. Engineer, Chief Engineer Herrmann, Modesto. Owners, Modesto Irrigation District. Bids for the contract of constructing the Weldy-Jones fill for the Modesto Irrigation District when opened by the Board of Directors of the district were in excess of the estimated cost of the work, and by order of the board all were rejected. Superintendent Nels Hansen was instructed to proceed with the work on the day's pay basis with the district handling the work entirely. The four bids offered and rejected are a follows: A. L Halverson, $3,204; T. B. Beeson, $3,337.50; Tieslau Bros., 110 Jessie street, S. F., $2,990.40; Jas. Willison, Half Moon Bay, $3,991.65.

Contracts Awarded.

BRIDGES — Reinforced concrete. Cost as follows. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractor, Mike Nelson, Visalia, $238.50, and Schliach & Krey, Visalia, $237.

JAIL COUNTER—$735. Bakersfield, Kern Co., Cal. Architect, none. Owners, Kern County. Contractors, M. G. West Co., 353 Market street, S. F. Contract price, $735.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

SEWER CONSTRUCTION—$21,597.01. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council at their last meeting adopted plans and specifications and issued a call for bids for the construction of sewers in South, First, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth, Linden, Oso, Aurora, Grant, Stanislaus, American, California, Sutter, San Joaquin, Hunter and El Dorado streets, McKinley and Peralta avenues, East Sutter and West Sutter streets. Further information together with plans and specifications may be

had from the City Engineer at Stockton.

SEWER CONSTRUCTION—$4,643.98. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications for storm sewers on East street from a point 31 feet 8 inches south of the center line of Sonora street to the Mormon channel were approved and resolution calling for bids passed. Plans and full information may be had from the City Engineer at Stockton.

RESIDENCE — 1 story and base, frame. Cost not stated. Sacramento, Cal. Architect, none. Owner, W. D. McKoy, 3029 E street, Sacramento. Location, 2999 U street. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

IRRIGATION PROJECT — $480,000. Redding, Shasta Co., Cal. Engineer's name not given. Owners, Anderson-Cottonwood Irrigation District. Bonds have been voted and engineers are now on the ground of the Anderson-Cottonwood Irrigation District contemplating the improvements to be made. Ditches, canals and reservoirs are planned by the district. Further mention will be made of this work.

HOTEL—2 story and base, brick. Cost not stated. Sacramento, Cal. Architect, none. Owner, Eugene Wachorst, 1629 M street, Sacramento. Location, 315 J street. Will contain storage space on the first floor and a number of hotel rooms above. Interior finish pine. Exterior pressed brick. Plans complete and work to be done by Day Labor.

Contracts Awarded.

RESIDENCE — 2 story and base, concrete block, $6,500. Red Bluff, Tehama Co., Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owner, George N. Vestal, Red Bluff. Contractor, J. J. Fretz, 906 Franklin street, Red Bluff. Contract price, $6,500.

BRIDGE—Reinforced concrete. Cost not stated. Red Bluff, Tehama Co., Cal. Engineer, County Surveyor, Red Bluff. Owners, Tehama County. Contractors, Ross Construction Co., Forum Bldg., Sacramento. Contact price not stated.

HALL OF JUSTICE—4 story and base, reinforced concrete, $20,044. Sacramento, Cal. Architects, Shea & Lofquist, Bankers' Investment Bldg., S. F. Contractor, H. S. Williams, Hearst Bldg., S. F. Contract price, $197,420, general construction. Ralston Iron Works, S. F., special jail equipment, $18,624.

PUMP — $20,000. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Power Equipment Co., Rialto Bldg., S. F. Contract price, $20,000.

RESIDENCE — 2 story and base, frame, $5,000. Pleasant Grove, Sutter Co., Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owner, F. M. Van Dyke. Contractor, Jacob Lucas, Lincoln. Contract price, $5,000.

COUNTRY CLUB—2 story and base, frame and plaster, $35,000. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Del Paso Country Club. Contractor, William Murcell, Ochsner Bldg., Sacramento. Contract price, $35,000.

LOS ANGELES AND SOUTHERN CALIFORNIA

RESIDENCE — 2 story and base, frame and plaster, $25,000. Pasadena, Los Angeles Co., Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Location, Oak Knoll. Will contain a large number of rooms, several baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Bath rooms finished in tile. Central heating system and hot water supply. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

RESIDENCE — 2 story and base, frame, $15,000. Los Angeles, Cal. Architect, none. Owner, Charles D. Wagner, Story Bldg., L. A. Location, La Fayette Square. Will contain twelve rooms, three baths, laundry and servants' quarters. Separate garage. Interior finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors and open fire places. Mantels tile or brick. Furnace heat and hot water circulating system. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HOSPITAL—3 story and base. Class A construction, $100,000. Los Angeles, Cal. Architect, George Low, L. A. Owners, Los Angeles County. Location, County Hospital grounds. Designed for a ward for girls and will contain operating rooms, wards and private rooms. Interior finished in pine, hardwood and white enamel. Hardwood and tile floors. Steam heat, oil burning equipment and hospital plumbing. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

LIBRARY—1 story and base, brick, $29,000. Hollywood, Los Angeles Co., Cal. Architect, Charles H. Russell, Union League Bldg., L. A. Owners, City of Hollywood. Will contain reading rooms, stack rooms and special rooms for children. Basement will contain an auditorium seating 400 people. Interior finish pine and hardwood with hardwood and tile floors. Steam heat and vacuum cleaning. Metal book stacks. Exterior faced with pressed brick. Plans being prepared.

SCHOOL—1 story and base. Class A construction, $400,000. Los Angeles, Architect, John O. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. Location, Knoll between Wilshire and Pico streets, covering an area of 344 by 70 feet. Complete steel frame, reinforced concrete floors and stairways. Designed for a high school. Interior finish pine and metal trim. Maple floors. Steam heat, vacuum cleaning and modern school plumbing. Exterior faced with pressed brick. Plans nearly complete.

AUTOMOBILE SCHOOL—1 and 2 story and base, brick. Cost not stated. Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Mrs. S. H. Van Nuys, leased to National Automobile School. Contractors, Alta Planing Mill Co., 830 Garry street, L. A. Contract price not stated.

Contracts Awarded.

RESIDENCE — 2 story and base, frame and plaster, $30,000. Oak Knoll, Los Angeles Co., Cal. Architects, Foss Designing and Building Co., 100 East Colorado street, L. A. Owner, E. H. Story. Contractors, Foss Designing and Building Co. Contract price, $30,000.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, H. H. Whiteley, Story Bldg., L. A. Owner, George A. Lewis. Contractors, Cooper-Fyle-Clopin Co., L. A. Contract price not stated.

APARTMENT HOUSE AND THEATRE—2 story and base, brick. Cost not stated. Anaheim, Orange Co., Cal. Architect, C. F. Skilling, Garland Bldg., L. A. Owner, Mrs. Sadie Weston Froman. Contractor, J. M. Bucklés, 1040 Lovelace avenue, L. A. Contract price not stated.

BRIDGES—Reinforced concrete. Cost as follows. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractors, Munoz & Munoz, Central Bldg., L. A. Contract price, $6,393. Humphrey & Elliott, Santa Barbara, $7,800.

PORTLAND AND OREGON

BRIDGE—Steel and concrete. Cost not stated. Portland, Ore. Engineer not selected. Owners, Polk and Marion Counties. Nineteen sets of bridge plans were submitted by engineers to the county courts of Polk and Marion Counties for the Willamette River bridge at Salem. Plans for both steel and concrete structures were received at costs ranging from $126,430 for a high level steel bridge to $294,510 for a low level concrete bridge. All of the plans unless otherwise specified were for a 30-foot roadway with a 6-foot sidewalk on each side. A selection will be made of the plans on which the structure will be constructed.

SEATTLE AND WASHINGTON

SCHOOL—2 story and base. Class A construction, $94,409. Bellingham, Wash. Architects, Heath & Gove, National Bank Bldg., Tacoma. Owners, City of Bellingham. The Sound Construction Co., Lowman Bldg., Seattle, presented the low bid for the construction of this building and will probably be awarded the contract.

Permission has been granted to F. Rolandi by the Board of Public Works to construct steps and sidewalks, retaining walls and necessary sewers and pavements on Francisco street, between Polk and Larkin and on Larkin street between Francisco and Chestnut streets according to the plans of the City Engineer, which were approved by the Board. The work has been started and will be completed in about 120 days. The projected improvements is the culmination of twenty years' effort to have the grade so adjusted that these improvements could be properly affected.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1	Tyler	Tyler	5000
2	Tyler	Tyler	5000
3	Tyler	Tyler	5000
4	City & Co. of S F.	Wold	22000
5	Same	Monson	16257
6	Griffin	Griffin	1500
7	Kiernan	Kiernan	4900
8	Hallett	Hallett	1500
9	Hall	Hall	3000
10	McClain	McClain	400
11	Miller	Miller	12000
12	McCafferty	Cazzaretto	400
13	Boschetti	Boschetti	400
14	Blum	Urfer	600
15	Du Prey	Urfer	400
16	Morningside	Hjul	8000
17	Long	Evans	13800
18	Sigwart	Zinkand	1495
19	Foster	Kleiser	400
20	St. Francis	Mason	4500
21	Dubeau	Dubeau	3000
22	Johnson	Johnson	3800
23	Gray	Weber	1000
24	Hogan	Sherman	700
25	Bourne	Bourne	6000
26	The Mart	Novelty	400
27	Wilson	Henderson	12200
28	Same	Klimm	5025
29	Same	Cal Tile	2795
30	Keenan	Keenan	4900
31	Keenan	Keenan	4900
32	Erben	Erickson	500
33	Sprague	Sprague	600
34	Montronil	Montronil	2000
35	MacEwen	McKenzie	5000
36	Moran	Hammond	1477
37	Bollman	Cramer	1945
38	Gerard	Klimm	5360
40	Esposito	Madden	4800
41	Same	Messner	1200
42	M E Ch Ext.	Johnston	4700
43	Candey	Montgomery	15662
39	Torre	Morieoni	4766
45	Aydukovich	Owner	1400
46	Same	Same	1400
47	Same	Same	1400
48	Holmgren	Holmgren	3000
49	Yngve	Yngve	4000
50	Torre	Cazzaretto	500
51	Louegrone	Nichols	400
52	Bozerque	McGrouther	400
53	Grady	Crane	400
54	Green	Christian	400
55	Dempniak	Dempniak	14000
56	Vannelli	Ferroni	750
57	Berglen	Wallen	400
58	Peters	Low	400
59	The Campus	W'n Wdwkg	150
60	Mt. Zion Hsptl.	Owner	800
61	McVier	Moller	650
62	Bodley	Bodley	1000
63	Roth	McKillop	400
64	Long	Scott	3000
65	Ins. Exchange	Henderson	3940
66	Yager	Yager	10000
67	Lobree	Carson	5485
68	McDevitt	Little	9750
69	Stewart	Monarch Iron	2000
70	McKenzie	Prout	18000
71	Detjan	Woolfrey	2000
72	Schoning	McCormick	4500
73	McRae	McRae	6000
74	Stewart	McKee	2000
75	Heyman	Heyman	1250
76	Scanavino	Garibaldi	700
77	Larson	Larson	1800
78	Shell	Gutleben	1700
79	Ryland	Dyer Bros	16900
80	Same	Stanquist	7550
81	Same	Montague	2900
82	Same	Pinkerton	6200
83	Same	McLeod	7389
84	Same	Forderer	1122
85	Same	Johnson	13800
86	Herman Est	Fink	2048
87	Hale	Chalmers	——
88	Heise	Hogberg	1920
89	Same	Nilson	1610
90	Same	Schroeder	2800
91	Bollman	Drake	1670
92	Same	Forderer	5520

FLATS

(1) W NINTH AVE 50 S Lake. Two-story and basement frame (2) flats.
Owner.....P. D. Tyler, 1921 Oak, S. F.
Architect ...None.
Day's work. COST, $5000

FLATS

(2) W NINTH AVE 25 S Lake. Two-story and basement frame (2) flats.
Owner.....P. D. Tyler, 1921 Oak, S. F.
Architect ...None.
Day's work. COST, $5000

FLATS

(3) W NINTH AVE 75 S Lake. Two-story and basement framê (2) flats.
Owner.....P. D. Tyler, 1921 Oak, S. F.
Architect ...None.
Day's work. COST, $5000

GENERAL CONSTRUCTION

(4) SW LARKIN AND PINE. General construction of Redding School.
Owner.....City and County of San Francisco.
Architect ...Frederick H. Meyer, Bankers' Invst. Bldg., S. F.
Contractor..C. L. Wold, 75 Sutter, S. F.
COST, $22,000

EXCAVATION, ETC.

(5) E POTRERO AVE., bet. 21st and 23rd. Excavation for northeast wing of City and County Hospital.
Owner.....City and County of San Francisco.
Architect ...John Reid Jr., Chronicle Bldg., San Francisco.
Contractor..O. Monson, 1907 Bryant, San Francisco.
COST, $16,237

ALTERATIONS

(6) NO. 256 LIBERTY. Move and underpin dwelling.
Owner.....Thos. H. Griffin, Premises.
Architect ...None.
Day's work. COST, $1500

FRAME FLATS

(7) E FOLSOM 77-5½ S 13th. Two-story and basement frame (4) flats.
Owner.....Thos. Kiernan, 1756 Mission, San Francisco.
Architect ...None.
Day's work. COST, $4000

ALTERATIONS

(8) W NINTH AVE 75 N Judah. Alter and repair flats.
Owner.....Mary B. Hallett, 1265 7th Ave, San Francisco.
Architect ...None.
Day's work. COST, $1500

FRAME DWELLING

(9) E TWELFTH AVE 50 S Balboa. Two-story and basement frame dwlg.
Owner.....C. A. Hall, 1318 5th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

MAPLE FLOOR

(10) W POWELL near O'Farrell. Lay maple floor for dance hall.
Owner.....W. T. McClain.
Architect ...None.
Day's work. COST, $400

FRAME FLATS

(11) E DOLORES 163 S 15th. Three-story and basement frame (9) flats.
Owner.....Fred Miller, 225 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $12,000

EXCAVATE, ETC.

(12) NO. 1949 GREEN. Excavate and underpin dwelling.
Owner.....M. H. McCafferty, Prem.
Architect ...None.
Contractor..G. B. Cazzaretto, 2503 Franklin, San Francisco.
COST, $400

ALTERATIONS

(13) NO. 1586 BUSH. Alter store.
Owner.....Ettore Boschetti, Prem.
Architect ...None.
Day's work. COST, $400

ADDITION

(14) NOS. 48-50 CALIFORNIA. Additional timbers for warehouse.
Owner.....Leon Blum, 214 Front, S. F.
Architect ...M. C. Couchot, C. E., 110 Sutter, San Francisco.
Contractor..Chas. E. Urfer, 555 Pine, San Francisco.
COST, $600

CEMENT FLOOR

(15) NO. 556 BROADWAY. New cement floor.
Owner.....Geo. Du Prey, 1565 Sacramento, San Francisco.
Architect ...None.
Contractor..Chas. E. Urfer, 555 Pine, San Francisco:
COST, $400

BRICK MARKET

(16) S SUTTER 137½ E Leavenworth. One-story & basement brick market.
Owner.....Morningside Realty Co., 613 Merchanics' Inst. Bldg., San Francisco.
Architect ...None.
Contractor..J. H. Hjul, Mechanics Institute Bldg., S. F.
COST, $8000

FRAME BUILDING

(17) NW NINETEENTH & CHURCH W 30xN 70 M B 9.. All work for three-story frame building.
Owner.....George S. Long Jr. and Lottie M. Long, 676 Church San Francisco.
Architect ...O. E. Evans & Co., 2861 Mission, San Francisco.
Contractor..O. E. Evans & Co., 2861 Mission, San Francisco.
Filed Dec. 31, '15. Dated Dec. 23, '15.
Frame up $1100
Brown coated 1100
Completed and accepted..... 1100

Usual 35 days..... 1100
$100 per month until further sum of $1500 has been paid, balance of $7800 to be paid by notes secured by deed of trust.....
TOTAL COST, $13,800
Bond, none. Limit, 120 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(18) NO. 1638 HAIGHT. Remodel social hall into an apartment four-rooms and bath.
Owner.....J. A. Sigwart, Premises.
Architect ...None.
Contractor..Edward Zinkand, 434 10th Ave., San Francisco.
Filed Dec. 31, '15. Dated Dec. 30, '15.
Rough studs up and light well cut $373.75
Standing finish on..... 373.75
Completed and accepted..... 373.75
Usual 35 days..... 373.75
TOTAL COST, $1495.00
Bond, none. Limit, 50 days. Forfeit, none. Plans and specifications filed.

ROOF SIGN
(19) NE FILLMORE AND GEARY. Roof sign.
Owner.....Foster & Kleiser of California, 273 Valencia, S. F.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(20) LOT 13 BLK 8, St. Francis Wood. Two-story and basement frame dwlg.
Owner.....St. Francis Home Bldg. Co., 80 Post, San Francisco.
Architect ...H. H. Gutterson, 80 Post, San Francisco.
Contractor..Mason-McDuffie Co., 80 Post, San Francisco.
COST, $4500

FRAME DWELLING
(21) E SIXTEENTH AVE 71 N Quintara. Two-story and basement frame dwelling.
Owner.....Jos. Duheau, 765 Haight, San Francisco.
Architect ...A. L. Lapachet, 110 Sutter, San Francisco.
Day's work. COST, $3000

FRAME FLATS
(22) W TWENTY-FOURTH AVE 175 S Clement. Two-story and basement frame (2) flats.
Owner.....Alfred Johnson, 2423 Clement, San Francisco.
Architect ...None.
Day's work. COST, $3800

FRAME STORE AND DWELLING
(23) E HAROLD 40 S Bruce. One-story frame store and dwelling.
Owner.....W. E. Gray and wife, 11 Edgar Ave., San Francisco.
Architect ...None.
Contractor..Weber & Shaw, 218 Miramar Ave., San Francisco.
COST, $1000

FRAME DWELLING
(24) W POTRERO 190 S 25th (rear). One-story and basement frame dwlg.
Owner.....J. Hogan, 1173 Vallejo, San Francisco.
Architect ...None.
Contractor..J. Sherman, 2823 25th, S. F.
COST, $700

FRAME FLATS
(25) N EIGHTEENTH 175 E Guerrero. Three-story and basement frame (3) flats.
Owner.....E. Bourne, 3631 17th, S. F.
Architect ...None.
Day's work. COST, $6000

ELECTRIC SIGN
(26) NO. 914 MARKET. Electric sign
Owner.....The Mart, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ALTERATIONS
(27) SW TURK AND TAYLOR. Carpenter, mill, brick work, patent flues, marble, iron rails, sheet metal, lath and plaster for alterations to five-story Class "C" hotel building.
Owner.....A. W. Wilson.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Jan. 3, '16. Dated Dec. 31, '15.
Exterior galvanized cornices and water tables and balconies in place and interior and exterior ready to receive plaster.....$4500
Completed and accepted..... 4650
Usual 35 days..... 3050
TOTAL COST, $12,206
Bond, $6100. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days from Jan. 4, 1916. Forfeit, none. Plans and specifications filed.

(28) PLUMBING, ETC., ON ABOVE.
Contractor..F. J. Klimm, 221 Oak, San Francisco.
Filed Jan. 3, '15. Dated Dec. 31, '15.
Pipes roughed in and tested....$1850
Completed and accepted..... 1915
Usual 35 days..... 1260
TOTAL COST, $5025
Bond, $2515. Sureties, Jeremiah Donavan and David Lyons. Limit, without delay to other work. Forfeit, none. Plans and specifications filed.
(29) TILE WORK ON ABOVE.
Contractor.. California Tile & Contracting Co., Sheldon Bldg., San Francisco.
Filed Dec. 3, '15. Dated Jan. 3, '15.
One-half completed $1045
Completed and accepted..... 1050
Usual 35 days..... 700
TOTAL COST, $2795
Bond, none. Limit, 10 days after floors and walls are ready to receive tiling. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(30) E TWENTY-FIRST AVE 250 S California. Two-story and basement frame (2) flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None.
Day's work. COST, $4900

FRAME FLATS
(31) E TWENTY-FIRST AVE 225 S California. Two-story and basement frame (2) flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None.
Day's work. COST, $4900

ADDITION
(32) SE ASHTON AND OCEAN. Addition to hotel.
Owner.....Jos. Erben, Premises.
Architect ...None.
Contractor..A. Erickson, 1158 Plymouth Ave., San Francisco.
COST, $500

CONCRETE FOUNDATION
(33) NO. 380 SAN JOSE AVE. Concrete foundation and underpin dwlg.
Owner.....W Sprague, Premises.
Architect ...None.
Day's work. COST, $600

FRAME DWELLING
(34) W BRYANT 52-5 N Army. One and one-half-story and basement frame dwelling.
Owner.....P. W. Montrouil, 270 Andover, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME DWELLING
(35) S GREEN 132-6 E Baker. Two-story and basement frame dwelling.
Owner.....Miss Susanane MacEwen, 2700 or 2100 Union, S. F.
Architect ...None.
Contractor..McKenzie & Prugh.
COST, $5000

CLOTHES DRYERS
(36) SE HAYES AND OCTAVIA E 62-6x8 120. 16 Chicago Rapido kitchen gas heated clothes dryers for three-story and basement frame bldg.
Owner.....Daniel M. Moran, 154 6th, San Francisco.
Architect ...Chas. J. I. Devlin, Pacific Bldg., San Francisco.
Contractor..M. E. Hammond, 785 Market, San Francisco.
Filed Jan. 4, '16. Dated Dec. 23, '15.
On delivery of dryers to bldg.....$700
Completed and accepted..... 407
Usual 35 days..... 370
TOTAL COST, $1477
Bond, $800. Sureties, Wm. H. Gee and Jas. A. White. Limit, 20 days after plaster on. Forfeit, $25 Plans and specifications, none.

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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PAINTING, ETC.

(37) SE FOURTH AND BRANNAN 137-6 on Brannan and 275 on 4th. Painting and finishing work for three story and basement reinforced concrete warehouse.

Owner.....The John Bollman Co., Battery and Commercial, by Lange & Bergstrom, Sharon Bldg., San Francisco.

Architect ...Chas. P. Weeks, Mutual Bank Blg., S. F.

Contractor..Cramer Bros., 742 12th, San Francisco.

Filed Jan. 4, '16. Dated Dec. 21, '15.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1945

Bond, limit, forfeit, none. Plans and specifications, none.

PLUMBING, ETC.

(38) SE GEARY AND LEAVENWORTH S 44xE 83-6. Plumbing work, fixtures, etc., for six-story and basement steel frame stores and apartments.

Owner.....Gerard Investment Co.

Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.

Contractor..Frank J. Klimm, 221 Oak, San Francisco.

Filed Jan. 4, '16. Dated Dec. 27, '15.
50% roughed in.....$1340
All roughed in and sewer connected 1340
Completed and accepted..... 1340
Usual 35 days..... 1340
TOTAL COST, $5360

Bond, $2680. Sureties, Jeremiah Donovan and David Lyons. Limit, 20 days for rough and 20 days for finish plumbing. Forfeit, none. Plans and specifications filed.

FRAME FLATS

(39) W TAYLOR 37-6 S Lombard S 25xW 77-6. All work for three-story and basement frame flats.

Owner.....Giovanni Torre, Premises.

Architect ...L. Traverso, 854 Union, San Francisco.

Contractor..G. Moriconi and G. Passarino, 2123 Polk, S. F.

Filed Jan. 5, '16. Dated Dec. 16, '15.
Roof on $1191.50
Brown coated 1191.50
Completed and accepted..... 1191.50
Usual 35 days..... 1191.50
TOTAL COST, $4766.00

Bond, $2383. Sureties, F. Berti and N. Capurro. Limit, 90 days after Jan. 6, 1916. Forfeit, none. Plans and specifications filed.

NOTE:—1st report Dec. 17, No. 3588.

FRAME COTTAGES

(40) NE PALOU AVE 150 NE Keith: Lot 11 Blk 310, South S. F. R. R. Ass'n. All work except brick garages, brick steps, brick bulkheads and excavation for three one-story frame cottages.

Owner.....Michele Esposito, 838 York, **Vallejo, Cal.**

Architect ...None.

Contractor..P. H. Madden, 1527 Jerrold Ave., San Francisco.

Filed Jan. 5, '16. Dated Jan. 4, '16.
Frames up $1200
1st coat plaster on..... 1200
Completed and accepted..... 1200
Usual 35 days..... 1200
TOTAL COST, $4800

Bond, $2400. Sureties, L. H. Birth and Leo W. Hardy. Limit, 90 days. Forfeit, none. Plans and specifications filed.

(41) THREE BRICK GARAGES, brick steps, buttresses, brick bulkheads and excavation on above.

Contractor..Paul Messner, 1386 Palou Ave., San Francisco.

Filed Jan. 5, '16. Dated Jan. 4, '16.
Excavation completed $300
When garages up..... 300
Completed and accepted..... 300
Usual 35 days..... 300
TOTAL COST, $1200

Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

FRAME ADDITION

(42) E MISSION 25 S Richland Ave S 75xE 100 being Lots 2, 3, and 4 Blk "G" French & Gilman Tract. All work for two-story frame addition to church building, known as the Betnany Methodist Episcopal Church.

Owner.....San Francisco Church Extension Society of the Methodist Episcopal Church 833 Monadnock Bldg., S. F.

Architect ...Wilson J. Wythe, Central Bank Bldg., Oakland.

Contractor..J. T. Johnston, J. E. Branagh and T. A. Cuthbertson, 1766 12th Ave., San Francisco.

Filed Jan. 5, '16. Dated Jan. 4, '16.
Frame completed, roof sheathing on and brick chimneys built....$1175
Roof on, building enclosed, electric wiring and rough plumbing inspected and 1st coat plaster on 1175
Completed and accepted..... 1175
Usual 35 days..... 1175
TOTAL COST, $4700

Bond, $2500. Sureties, J. . McCallum and E. O. Benner. Limit, 90 days from filing. Forfeit, $1. Plans and specifications filed.

FRAME APARTMENTS

(43) SE HYDE & BROADWAY E 87-6 xS 87-6. All work except roofing, wall paper and wall beds for three-story and basement frame apartments

Owner.....Jas. Cantley, 1370 Green, San Francisco.

Architect ..Edw. E. Young, 251 Kearny San Francisco.

Contractor..E. J. Montgomery, 1320 Broadway, San Francisco.

Filed Jan. 5, '16. Dated Jan. —, '16.
Frame up and roof boards on..$2936.60
Brown coated 2936.60
Standing finish on..... 2936.60
Completed and accepted..... 2936.70
Usual 35 days..... 3915.50
TOTAL COST, $15,662.00

Bond, $7831. Sureties, Chas. Schlesinger and Jno. H. Brickwedel. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

(44) W EIGHTEENTH AVE 75 N Balboa N 25xW 82-6. All work for two-story frame residence.

Owner.....Mrs. A. Otten, 3108 Geary, San Francisco.

Architect ...Arthur Gasque, 2498 Sutter, San Francisco.

Contractor..Leigh & Schultz, 419 21st Ave., San Francisco.

Filed Jan. 5, '16. Dated Dec. 23, '15.
Frame up and roof on.....$775
Brown coated 775
Completed and accepted..... 775
Usual 35 days..... 775
TOTAL COST, $3100

Bond, $2400. Sureties, G. Moeller and Chas. Jurgensen. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING

(45) E FORTY-SIXTH AVE 100 N Judah. Two-story and basement frame dwelling.

Owner.....L. Aydukovich, 1238 Hollister Ave., S. F.

Architect ...None.

Day's work. COST, $1400

FRAME DWELLING

(46) E FORTY-SIXTH AVE 150 N Judah. Two-story and basement frame dwelling.

Owner.....L. Aydukovich, 1238 Hollister Ave., S. F.

Architect ...None.

Day's work. COST, $1400

FRAME DWELLING

(47) E FORTY-SIXTH AVE 125 N Judah. Two-story and basement frame dwelling.

Owner.....L. Aydukovich, 1238 Hollister Ave., S. F.

Architect ...None.

Day's work. COST, $1400

FRAME DWELLING

(48) W EIGHTEENTH AVE 100 S Balboa. Two-story and basement frame dwelling.

Owner.....K. H. Holmgren, 98 Godeus San Francisco.

Architect ...C. O. Clausen, Hearst Bldg San Francisco.

Day's work. COST, $3000

FRAME FLATS

(49) W STANYAN 75 N Parnassus. Two-story and basement farme (2) flats.

Owner.....Karl Yngve, 133 Alpine Terrace, San Francisco.

Architect ...None.

Day's work. COST, $4000

ALTERATIONS

(50) NO. 101 BAY. Alter for saloon.

Owner.....G. B. Torre & Son, 101 Bay, San Francisco.

Architect ...None.

Contractor..Cazzaretto & Co., 2503 Franklin, San Francisco.

COST, $500

ALTERATIONS

(51) NO. 467 PINE. Install new front

Owner.....Stella Louegroue, 151 Sutter, San Francisco.

Architect ...None.

Contractor..H. D. Nichols, 1381 Stevenson, San Francisco.

COST, $400

ALTERATIONS

(52) NO. 401 GOLDEN GATE AVE. Install toilets and partitions.

Owner.....H. Bazerque, 400 Golden Gate Ave., San Francisco.

Architect ...None.

Contractor..McGrouther & Gau, 409 Shotwell, San Francisco.

COST, $400

REPAIRS
(53) NO. 117 MT. VERNON AVE. Repair cottage.
Owner.....Grover Grady, 225 Chronicle Bldg., S. F.
Architect ...None.
Contractor..E. F. Crane, 501 Mt. Vernon, San Francisco.
COST, $400

ALTERATIONS
(54) NO. 198 DIVISADERO. Alter apartments.
Owner.....Marian A. Green, Premises
Architect ...None.
Contractor..T. Christian, 531 Haight, S. F. COST, $400

FRAME APARTMENTS
(55) N JACKSON 92-6 E Polk. Three-story and basement frame (6) apartments.
Owner.....Michael Dempniak, 728 Page, San Francisco.
Architect ...None.
Day's work. COST, $14,000

ALTERATIONS
(56) NO. 3235 PIERCE. Alter store into flat.
Owner.....P. Vannelli, Premises.
Architect ...None.
Contractor..S. Ferroni, 1273 Chestnut, San Francisco.
COST, $750

REPAIRS
(57) NO. 469 MISSISSIPPI. Repair fire damage.
Owner.....Chas. Berglen.
Architect ...None.
Contractor..John G. Wallen, Premises.
COST, $400

REPAIRS
(58) NO. 3203 MISSION. Repair store.
Owner.....Peters Estate, 1663 Greenwich, San Francisco.
Architect ...None.
Contractor..Jas. Low, 1501 Valencia, S. F. COST, $400

ALTERATIONS
(59) NO. 1518 FILLMORE. Alter for saloon.
Owner.....The Campus, NW Fulton & Fillmore, San Francisco.
Architect ...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., S. F. COST, $450

ALTERATIONS
(60) NW POST AND SCOTT. Minor alterations on rooms.
Owner.....Mt. Zion Hospital, Prem.
Architect ...J. E. Krafft & Sons, Phelan Bldg., San Francisco.
Day's work. COST, $800

ALTERATIONS
(61) NO. 969 MARKET. Alter front.
Owner.....Mr. McVier, Premises.
Architect ...None.
Contractor..Moller & Sons, 520 Jessie, San Francisco.
COST, $650

ALTERATIONS
(62) NO. 2518 MISSION. Alter store.
Owner.....H. S. Bodley, 129 Sutter, San Francisco.
Architect ...None.
Day's work. COST, $1000

CONCRETE FLOOR
(63) NO. 1532 FILLMORE. Concrete floor.
Owner.....A. Roth, 2615 Laguna, San Francisco.
Architect ...None.
Contractor..McKillop Bros., 540 Cole, San Francisco.
COST, $400

BOILER EQUIPMENT
(64) NO. 21 BUENA VISTA AVE. All work for boiler equipment for sanitorium.
Owner.....Dr. S. F. Long, Premises.
Architect ...None.
Contractor..Scott Co., 243 Minna, S. F.
Filed Jan. 6, '16. Dated Jan. 6, '16.
On 5th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $3000
Bond, limit, forfeit, none. Specifications only filed.

ALTERATIONS
(65) NO. 433 CALIFORNIA. Alterations and repairs to building.
Owner.....The Insurance Exchange.
Architect ...None.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Jan. 6, '16. Dated Jan. 4, '16.
Completion of brown plaster.. 40%
On completion 35%
Usual 35 days..... 25%
TOTAL COST, $3540
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME FLATS
(66) N CALIFORNIA 32-6 W 16th Ave W 25xN 100; N 17th Ave 146-1 S California S 25xW 120. All work for two two-story and basement frame buildings (flats).
Owner.....Grace Yager, 1539 Clay, San Francisco.
Architect ...None.
Contractor..W. W. Yager, 1239 Polk, San Francisco.
Filed Jan. 6, '16. Dated Jan. 4, '16.
Roof on $2500
Finish coat plaster on..... 2500
Completed and accepted..... 2500
Usual 35 days..... 2500
TOTAL COST,10,000
Bond, none. Limit, 85 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(67) N BEAVER 200 E Castro E 25xN 115. All work for two-story frame flats.
Owner.....A. D. and L. L. Lobree, 2271 Market, San Francisco.
Architect ...None.
Contractor..E. A. F. Carson, 4323 19th, San Francisco.
Filed Jan. 6, '16. Dated ——.
Frame up $1371.25
Brown coated 1371.25
Completed and accepted..... 1371.25
Usual 35 days..... 1371.25
TOTAL COST, $5485.00
Bond, none. Limit, 120 days. Forfeit, none. Plans and specifications filed.

BRICK SALESROOM
(68) SW GOLDEN GATE AVE AND Dale Place. One-story brick salesroom and office.
Owner.....Edw. McDevitt, 1401 Eddy, San Francisco.
Architect ...Reid Bros., California-Pacific Bldg., S. F.
Contractor..Matthew A. Little, 1317 4th Ave., San Francisco.
COST, $9750

ALTERATIONS
(9) NO. 353 GEARY. Remove present marquise on front of building and erect new one.
Owner.....Chas. and Margaret Stewart, Premises.
Architect ..L. C. Mullgardt, Chronicle Bldg., San Francisco.
Contractor..Monarch Iron Works., 1159 Howard, San Francisco.
COST, $2000

FRAME APARTMENTS
(70) SE BROADWAY AND FILLMORE Three-story and basement frame (9) apartments.
Owner.....C. C. McKenzie, 1439 Sacramento, San Francisco.
Architect .. None.
Contractor..J. Prout, 2020 Turk, S. F.
COST, $18,000

FRAME DWELLING
(71) S ARLINGTON 112 W Miguel. One-story and basement frame dwlg.
Owner.....John Detjan, 10 Bartlett, San Francisco.
Architect ...None.
Contractor..John B. Woolfrey, 10 Bartlett, San Francisco.
COST, $2000

FRAME FLATS
(72) W SEVENTEENTH AVE 400 S Anza. Two-story and basement frame (2) flats.
Owner.....O. Schoning and H. S. Thomson, Mission and Charles, San Francisco.
Architect ...None.
Contractor..Thomas McComick, 25 Gladys, San Francisco.
COST, $4500

BRICK SALESROOM
(73) S GOLDEN GATE AVE 82-6 E Larkin. One-story brick salesroom for automobiles.
Owner.....John A. McRae, 2243 Virginia, Berkeley.
Architect ...M. G. Bugbee & Co., 619 Washington, San Francisco
Day's work. COST, $6000

FRAME DWELLING
(74) W RAMSELL 200 N Garfield. One and one-half-story and basement frame dwelling.
Owner.....Wm. A. Stewart, 1723 Scott San Francisco.
Architect ...W. Jones Cuthbertson, 328 Montgomery, S. F.
Contractor..Fred McKee, 1723 Scott, San Francisco.
COST, $2000

FRAME DWELLING
(75) NW SILVER 65.13 NE Boutwell. One and one-half-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1250

ALTERATIONS
(76) N IVY 137½ E Gough. Minor alterations to flats.
Owner.....Joseph Scanavino, 220 Ivy, San Francisco.

Architect ..Louis Mastropasqua, 580 Washington, S. F.
Contractor..V. Garibalid.
COST, $700

FRAME DWELLING
(77) NW DELANO 241.71 SE Santa Ynez. One-story and basement frame dwelling.
Owner.....Axel R. Larson, 282 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $1800

BRICK OFFICE
(78) SE ARMY AND THIRD. One-story brick office.
Owner.....Shell Co. of California, 343 Sansame, San Francisco.
Architect ...Engineers of Shell Co., 343 Sansome, San Francisco.
Contractor..Gutleben Bros., 628 New Call Bldg., S. F.
COST, $1700

BRICK ATHLETIC CLUB
(79) N SUTTER 137-6 W Mason. Steel fabrication, steel erection and furnishing same for seven-story and basement brick Womens' Athletic Club.
Owner.....C. T. Ryland, Sonoma, Cal.
Architect ...Bliss & Faville, Balboa Bldg., San Francisco.
Contractor..Dyer Bros., 17th & Kansas, San Francisco.
Filed Jan. 7, '16. Dated Dec. 9, '15.
Monthly installments of..... 75%
36 days after..... 25%
TOTAL COST, $16,900
Bond, $8500. Surety, California Casualty Co. Limit, May 1, 1916. Forfeit, $10. Plans and specifications filed.

(80) CONCRETE WORK ON ABOVE.
Contractor..Victor Stanquist, 110 Jessie, San Francisco.
Filed Jan. 7, '16. Dated Dec. 30, '15.
Payments same as above.....
TOTAL COST, $7550
Bond, $3775. Sureties, Jno. Casaretto and Chas. A. Carillon. Limit, May 1, 1916. Forfeit, $10. Plans and specifications filed.

(81) EXCAVATION ON ABOVE.
Contractor..P. Montague Co., 2887 Green, San Francisco.
Filed Jan. 7, '16. Dated Dec. 30, '15.
Payments same as above.....
TOTAL COST, $2900
Bond, $1500. Surety, M. S. Montague. Limit, March 1, 1916. Forfeit. $10. Plans and specifications filed.

(82) PLUMBING WORK ON ABOVE.
Contractor..Jas. H. Pinkerton Co., 2266 Fulton, San Francisco.
Filed Jan. 7, '16. Dated Dec. 31, '15.
Payments same as above.....
TOTAL COST, $6200
Bond, $3100. Sureties, R. J. O'Brien and G. F. Bernard. Limit, Sept. 1, 1916. Forfeit, $10. Plans and specifications filed.

(83) PLASTERING ON ABOVE.
Contracto..J. C. McLeod, Pacific Bldg., San Francisco.
Filed Jan. 7, '16. Dated Dec. 31, '15.
Payments same as above.....
TOTAL COST, $7389
Bond, $3695. Surety, The Aetna Accident & Liability Co. Limit, Sept. 15, 1916. Forfeit, $10. Plans and specifications filed.

(84) SHEET METAL WORK ON above.
Contracto..Forderer Cornice Works, 269 Potrero Ave., S. F.
Filed Jan. 7, '16. Dated Dec. 30, '15.
Payments same as above.....
TOTAL COST, $1122
Bond, $561. Surety, United States Fidelity and Guarantee Co. Limit, Aug. 1, 1916. Forfeit, $10. Plans and specifications filed.

(85) CARPENTRY WORK ON ABOVE
Contractor..J. Harold Johnson, 740 9th Ave., San Francisco.
Filed Jan. 7, '16. Dated Dec. 30, '15.
Payments, none given.....
TOTAL COST, $13,800
Bond, $6900. Surety, The Aetna Accident & Liability Co. Limit, Sept. 1, 1916 Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(86) NO. 1598 BUSH. All work for alterations and additions to building.
Owner.....Hermann Estate, 10 Kearny, San Francisco.
Architect ...August G. Headman, New Call Bldg., San Francisco.
Contractor..Fink & Schindler Co., 218 13th, San Francisco.
Filed Jan. 7, '16. Dated Jan. 5, '16.
Concrete floor laid and show window office and skylight in place .....$ 500
Completed and accepted..... 1036
Usual 35 days..... 512
TOTAL COST, $2048
Bond, none. Limit, Feb. 1, 1916. Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(87) COR. FIFTH AND MARKET. Removal of present coat of paint from portions of rear of Stevenson street wall of Hale Building and apply 1 coat of Gunite.
Owner.....Hale Bros., Inc., Prem.
Architect ...None.
Contractor..H. A. Chalmers, Inc., 46 Kearny, San Francisco.
Filed Jan. 7, '16. Dated Jan. 4, '16.
When gunite applied to 25% of total area 25%
When gunite applied to all wall 25%
When material removed from premises 25%
Usual 35 days..... 25%
TOTAL COST, 30c per sq yard of surface chipped plus 50c per window; 80c per sq. yd of surface covered with Gunite.
Bond, owner, $1000; $1000 guaranteeing work. Surety, Pacific Coast Casualty Co. Limit, forfeit, plans and specifications, none.

BRICK MARKET BUILDING
(88) S GEARY 83-6 E Leavenworth E 27x8 83-6. Brick work and setting terra cotta for one-story and basement brick market building.
Owner.....W. L. Heise.
Architect ...Albert W. Burgren, 30 Woodland Ave., S. F.
Contractor..Hogberg & Ludwig, 110 Jessie, San Francisco.
Filed Jan. 7, '16. Dated Dec. 28, '15.
Brick up and ready for ceiling joists $1000
Completed and accepted..... 440
Usual 35 days..... 480
TOTAL COST, $1920
Bond, $960. Surety, C. L. Wold. Limit, 12 days after 1st floor joists set. Forfeit, $10. Plans and specifications filed.

(89) CONCRETE FOUNDATION, SIDE walk and side walk lights and basement floor on above.
Contractor..Nilson & Arras, 110 Jessie, San Francisco.
Filed Jan. 7, '16. Dated Dec. 28, '15.
Foundations in $1000
Completed and accepted..... 230
Usual 35 days..... 410
TOTAL COST, $1640
Bond, $820. Sureties, T. J. W. Andersen and D. B. Macdonald. Limit, 20 days after grading done. Forfeit, $10. Plans and specifications filed.

(90) IRON WORK, PLASTERING, carpenter work, mill, rough hardware, glass, plumbing, painting, etc., on above.
Contractor..Schroder Bros.
Filed Jan. 7, '16. Dated Dec. 28, '15.
Roof on .....$ 500
Finish coat plaster on..... 500
Tiling completed in store..... 850
Completed and accepted..... 1000
Usual 35 days..... 950
TOTAL COST, $3800
Bond, $1900. Sureties, Chas. Lauffer and Jno. M. Jacobson. Limit, as fast as possible. Forfeit, $10. Plans and specifications filed.

CONCRETE WAREHOUSE
(91) LOCATION NOT GIVEN. Masonry for three-story and basement reinforced concrete warehouse.
Owner.....The John Bollman Co., Battery and Commercial by Lange & Bergstrom, Sharon Bldg., San Francisco.
Architect ...Chas. Peter Weeks, Mutual Bank Bldg., S. F.
Contractor..H. E. Drake, 1333 Lincoln Way, San Francisco.
Filed Jan. 7, '16. Dated Jan. 3, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1670
Bond, limit, forfeit, none. Plans and specifications, none.

(92) CERTAIN WORK DESCRIBED in Section 7 of specifications, except composition roofing as covered by paragraphs 2 to 5 inclusive, including also ingot iron, galvanized spandrells for all windows where cast iron is called for on above.
Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.
Filed Jan. 7, '16. Dated Jan. 4, '16.
Payments same as above.....
TOTAL COST, $5520
Bond, limit, forfeit, none. Plans and specifications, none.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Dec. 31, 1915—N SOTELO AVE 10 W from SW Cor Lot 27 Blk 2818 Forest Hill Court E 33.325 m or 1 N 100.144 m or 1 W 52.316 m or 1 S 100 Ptn Lots 26 and 27 Blk 2818, Forest Hill Conrt. J W Marshall to Chas E Wilson.....Dec. 30, 1915
Dec. 31, 1915—W WEBSTER 85-3½

N McAllister N 52-2½ W 122-6 S 52-6 E 100 N 0-3½ E 37-6. Congregation Keneseth Israel to whom it may concern.....Dec. 27, 1915

Dec. 31, 1915—NO. 20 CHERRY. Mrs Robert M Loeser to Stockholm & Allyn.....Dec. 24, 1915

Dec. 31, 1915—SW CALIFORNIA & Mason W 77-6xS 60. S W Morshead to Williams Bros & Henderson... .....Dec. 30, 1915

Dec. 31, 1915—S CALIFORNIA 70 E 19th Ave 25x100; S California 95 E 19th Ave 25x100. Lloyd Burley Ham to whom it may concern... .....Dec. 31, 1915

Dec. 31, 1915—S ELM AVE 137-6 E Gough E 27-6xS 52. Katherine Black to O Giannini & Son..... .....Dec. 29, 1915

Jan. 5, 1916—W FIFTEENTH AVE 25 S Anza. J Harold Johnson to whom it may concern.....Completed

Jan. 5, 1916—W EIGHTEENTH AVE 150 S Balboa S 25xW 120. John J Kingwell to Leigh & Schultz... .....Dec. 31, 1915

Jan. 5, 1916—E SHARP ALLEY 112 S Union 25x112. G B De Lucchi or Delucchi to V Marcone..Jan. 4, 1916

Jan. 5, 1916—E NINETEENTH AVE 175 N Balboa N 25xE 120. Oscar Lind to whom it may concern... .....Jan. 5, 1916

Jan. 5, 1916—S DAY 230 E Noe; No. 357 Day. W S Castro to Nelson Bros.....Jan. 5, 1916

Jan. 5, 1916—N MEDA AVE 75 W Otsego Ave W 50. Jas Arnott & Son to whom it may concern..... .....Jan. 4, 1916

Jan. 5, 1916—NW COOK AND GEARY. H M and Frances C Bethiaune to Chas J King, Inc.....Dec. 11, 1915

Jan. 3, 1916—SW FRANKLIN AND Sutter. Century Club of Cal. to Victor Engineering Co..Dec. 24, 1915

Jan. 3, 1916—SE BRUSH PLACE 140 SW Hallam SW 25x75. M Cutler to C W Johnson.....Dec. 27, 1915

Jan. 3, 1915—E MASON 85 — Eddy E 68-9 N 25 W 68-9 S 25. Joseph M Kowalsky to W D Henderson..... .....Dec. 27, 1915

Jan. 3, 1915—N WASHINGTON 137-6 E Laguna E 137-6xN 255-4½... Mary Louise Phelan to Scott Co... .....Dec. 23, 1915

Jan. 6, 1916—W NINTH AVE 200 S Kirkham S 25xW 120. Andrew V Anderson to whom it may concern .....Dec. 21, 1915

Jan. 6, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. Mary K Carson to O E Evans & Co.....Jan. 5, 1916

Jan. 6, 1916—E CLAYTON 112-6 S Page S 25x137-6. John F Seymour to Wm J Black.....Jan. 6, 1916

Jan. 6, 1916—E SIXTH AVE 100 N Geary N 25xE 120. Patrick Horgan to Leigh & Schultz.....Jan. 4, 1916

Jan. 6, 1916—N CABRILLO 95 W 7th Ave 25x95. H C Christiansen to whom it may concern....Jan. 6, 1916

Jan. 6, 1916—NW LAKE & 20TH AVE W 57-6xN 60. Henrietta F Mohr to J S Malloch.....Jan. 5, 1916

Jan. 6, 1916—W TENTH AVE 275 N "C." P J Halligan to H E and T W McArthur.....Jan. 6 1916

Jan. 7, 1916—W NINTH AVE 200 S Kirkham S 25xW 120. Andrew V Anderson to whom it may concern.....Dec. 21, 1915

Jan. 7, 1916—E JONES 88 N Washington N 25xE 128-9. Sarah Campadonico (wf Chas) to Higginson Co, Inc.....Jan. 7, 1916

Jan. 7, 1916—W SEVENTEENTH AV 78-11 N Clement — 25 W 120 S 25 E 120. Johnson & Johnson to whom it may concern....Jan. 7, 1916

Jan. 7, 1916—E NINETEENTH AVE 50 N Balboa N 25xE 82-6. Martin and Hans Nelson to whom it may concern.....Jan. 5, 1916

Jan. 7, 1916—W TAYLOR 137-6 N Sutter N 38-9xW 137-6. Biltmore Realty Co to United States Metal Products Co. Hicks & Folte and Peterson-James Co.....Jan. 6, 1916

LIENS FILED

San Francisco

Dec. 23, 1915—S SIXTEENTH 178-8 W Guerrero W 25xS 110. Central Electric Co vs Edw and Margaret Perry $151.50

Dec. 27, 1915—S DWIGHT & GIRARD SW 50xSE 100. Sunset Constr Co vs Mark and Rosa Chartock.....$75

Dec. 29, 1915—W SIXTH AVE 200 N Anza N 25xW 120. E E Gillon vs Margarethe and Michael Schlegelmilch $218.71

Dec. 30, 1915—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 140 m or l. Sunset Hardware Co vs Henry A Lehfeldt, E M Reagh and H Lewis $434.79

Dec. 31, 1915—N PINE 77-6 W Grant Ave W 60xN 60. Western Electric Co vs A and David Ratto (as Ratto and Ratto) and Wm A Hench.$161.70

Dec. 31, 1915—W SCOTT 77-8¼ N Clay N 25xW 90. Gustav Dieckmann vs William Larsen and Harry Francis Davis $210

Dec. 31, 1915—W SCOTT 77-8¼ N Clay N 25xW 90. Schwarz & Gottlieb, Inc vs Wm Larsen and Harry

Jan. 3, 1916—S IRVING 60 E Ninth Ave E 35xS 75. Reinhart Lumber & Planing Mill Co vs Olga Seller and Lemser & Piske.....$1156.08

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Mission Concrete & Mosaic Co vs Ratto & Ratto and William A Hench.....$667

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Fred Slepuznikoff vs Wm A Hench.....$525

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Central Iron Wks vs Wm A Hench and Ratto & Ratto $750

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. United Materials Co vs Wm A Hench, D and A Ratto (as Ratto & Ratto) and G Christini $464.77

Jan. 4, 1916—N PINE 77-6 W Grant Ave. Jos Michel and Walter Pfeffer (as Michel & Pfeffer) vs Wm A Hench and Ratto & Ratto $14.80

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. California Brick Co vs Wm A Hench and Ratto & Ratto $769.22

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. E V Lacey vs Wm A Hench and Ratto & Ratto...$5000

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Pacific Portland Cement Co vs Wm A Hench and G Chistini $393

Jan. 4, 1916—N PINE 77-6 W Grant Ave W 60xN 60. R L Tiernan and A V Beronio as Tiernan & Beronio $1515.41; M Perino, $410; George H Gay, $119 Joost Bros, $158.79; Dunham-Carrigan & Hayden Co, $182.10 Wm J Dowling, $360.85 and Thos McKee and James McKee, $185 vs Wm A Hench and Ratto & Ratto..

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Gladding, McBean & Co vs William A Hench and Ratto & Ratto.....$10.55

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. John J Delucchi, $150; Hart & Burmeister, $2211.85; G & M Sheet Metal Works, $261 vs William A Hench & Ratto & Ratto

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. United Material Co, $265.77; G Georgi & Co, $135.65; G Georgi & Co, $256.35 vs Wm A Hench, Ratto & Ratto and G Christina .....

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. Terranova Bros, $1282; Friedman Bros, $311; Malott & Peterson, $165; Western Builders' Supply Co, $52.97 vs Wm A Hench and Ratto & Ratto.....

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. G Christina vs W A Hench.....$310

Jan. 5, 1916—N PINE 77-6 W Grant Ave W 60xN 60. G Christina vs Wm A Hench and Ratto & Ratto... .....$2291.38

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Dec. 29, 1915—N GOLDEN GATE AV 192-6 W Polk W 32-6xN 120. P E O'Hair & Co to L A Hinson and Daniel Breslauer Estate Co or D Breslauer Estate Co.....

Dec. 29, 1915—W MOULTRIE 125 N Tomkins N 25xW 75; No. 718 Moultrie. The Greater City Lumber Co to Sarah McNamee.....

Jan. 3, 1916—LOT 41 BLK 4, Lakeview. George T Wood to Joseph C Stromswold, Frank B and Jane Doe McCarthy .....

Jan. 4, 1916—SE BRANNAN 275 NE Sixth NE 137-6xSE 250. John L Fox to John Deere Plow Co of S. F., fmly Deere Implement Co.....

Jan. 4, 1916—SW FOLSOM AND Rodgers — 152-6 S 125 E 152-6 N 125. Hicks-Folte Cpn to Alan Macdonald and Felix Kahn.....

Jan. 4, 1915—NE ARMY & CHURCH N 51-6xE 96. Spring Valley Lumber Yard, Gonzalo Rodriguez, Basil McDonald, J Bardi, Henry Barman, A Sockolov, F W Thurston, Fred Pardinni, J S Guerin, E D Bennett Hugo Carlson, James Hatland, Arther Len, Christian Eriksen, Cornelius Lynch, N Manno, Frank Zichosch, G Palma and B Ghiotto, Grassi and A Minutoli to John G Albert Debont, Geo W Peek, P and Elizabeth Trapp.....

LEASES.

SAN FRANCISCO COUNTY.

Jan. 5, 1916—W BRYANT 104 N 25th N 26xW 100. Delia Mary Tobin, Gilbert Peter Rooney, John Joseph Rooney and Jas Rooney, joint tenants to

Sarah Rooney. 20 years. $240.

Jan. 5, 1916—NO. 1521 MASONIC AVE. NW Cor. Piedmont. Niels and Ingeborg Anderson to J S McCormick. 3 years. $42.50 per month with option to renew.

Jan. 4, 1916—NO. 401 DRUMM NW Cor. Jackson. Thos W Butcher to M Costo. 5 years. $9600.

Jan. 6, 1916—SW JACKSON & KEARNY W 33-5x8 70-3. Henrietta Steineggar to Peter P and Thos McDonough. 10 years. $31,800.

Jan. 7, 1916—NO. 315 THIRD E line bet. Folsom and Harrison. J M McGee to Dora Fantin. 3 years. $500. Assigned Dec. 18, 1915 to August Boudou.

Dec. 31, 1915—SE EDDY AND MASON. Alexander W Wilson to Pasquali Fazzio and Giuseppi Turano. 2 years 6 months. $750.

ASSIGNMENT OF LIENS.

Jan. 4, 1916—NE CHURCH & ARMY N 51-6xE 96. Franz Zichosch to G B Benham .....

Building Contracts Awarded

Oakland.

1	Hanlon	Hanlon	1500
2	Hanlon	Hanlon	600
3	Hanlon	Hanlon	600
6	McHarney	Wieben	2500
7	Rankin	Larmer	2500
8	Alameda County	Larsen	74148
9	Mathiesen	Button	3254
10	Larson	Larson	2100
11	Boardman	Boehrer	1500
12	Regal	Kulchar	1000
13	Collins	Collins	10000
14	Wheeler	Wheeler	500
15	Burger	Burger	2500
21	Pleitner	Pleitner	1500
22	Lack	Helms	400
23	Denton	Denton	2500
24	Forrest	Ruthford	2050
25	Alexander	Elec. Constr	660
26	Smythe	Hopper	400
27	Poulton	Poulton	500
28	Aronson	Bay City.	1500
29	Moore	Moore	1175
32	Berkeley	Jones	1281
33	Wolfe	Thuesen	400
34	Smith	Brett	400
35	Pike	Russell	600
36	Gartland	Durham	400

MACHINE SHOP
(1) W FIFTH AVE 200 S E-First, Oakland. Two-story machine shop and loft.
Owner.....Hanlon Dry Dock & Ship Bldg. Co., Premises.
Architect...None.
Day's work. COST, $1500

STORE HOUSE
(2) W FIFTH AVE 200 S E-First, Oakland. Two-story store house.
Owner.....Hanlon Dry Dock & Ship Bldg. Co., Premises.
Architect...None.
Day's work. COST, $600

OFFICE BUILDING
(3) W FIFTH AVE 200 S E-First, Oakland. Two-story office building.
Owner.....Hanlon Dry Dock & Ship Bldg. Co., Premises.
Architect...None.
Day's work. COST, $600

DWELLING
(6) N EVERETT 250 W Wellington, Oakland. One-story 6-room dwlg.
Owner.....Alice J. McHarvey, 2829 E-23rd, Oakland.
Architect....None.
Contractor..Alex C. Wieben, 1461 Alice Oakland.
COST, $2500

DWELLING
(7) E MILES AVE 175 N Forest, Oakland. Two-story 6-room dwelling.
Owner.....J. L. Rankin, 6082 Claremont Ave., Oakland.
Architect...None.
Contractor..Edw Larmer, 470 Boulevard Way, Oakland.
COST, $2500

BRICK BUILDING
(8) FOOTHILL BOULEVARD nr San Leandro. All work except plumbing, electric work and heating for two-story brick and concrete 1-st unit of Infirmary.
Owner.....Alameda County.
Architect...Chas. P. Weeks, Mutual Bank Bldg., S. F.
Contractor..Larsen-Sampson Co., Crocker Bldg., S. F.
COST, $74,149

DWELLING
(9) SE SEVENTH AVE 100 SW E-22nd SW 50xSE 125, Oakland. All work for two-story 7-room dwelling.
Owner.....Christine M. J. and Andrew Mathiesen, Oakland.
Architect...None.
Contractor..I. W. Button, 347 63rd, Oakland.
Filed Jan. 3, '16. Dated Dec. 28, '15.
Frame up $812.50
Plastered 812 50
Completed 812.50
Usual 35 days..... 816.50
TOTAL COST, $3254.00
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

REPAIRS
(10) NO. 160 E-FOURTEENTH, Oakland. Fire repairs to apartments.
Owner.....Mrs. Flora A. Larson, 1407 2nd Ave., Oakland.
Architect...None.
Contractor..J. A. Larson, 1407 2nd Ave., Oakland.
COST, $2100

ALTERATIONS
(11) E WASHINGTON 50 N 13th, Oakland. Alterations.
Owner.....Boardman Estate, 13th & Washington, Oakland.
Architect...J. Henry Boehrer, Delger Bldg., Oakland.
Contractor..Boehrer & Legault, Delger Bldg., Oakland.
COST, $1500

ALTERATIONS
(12) NO. 1317 BROADWAY, Oakland. Alterations.
Owner.....Regal Shoe Co., Premises.
Architect...None.
Contractor..S. Kulchar Co., 8th Ave & E-10th, Oakland.
COST, $1000

APARTMENTS
(13) S E-NINETEENTH 200 W 4th Ave., Oakland. Two-story 24-room apartments.
Owner.....Collins Bros., 825 51st, Okd
Architect...None.
Day's work. COST, $10,000

ALTERATIONS
(14) NO. 3225 FRUITVALE AVE., Oakland. Alterations.
Owner.....W. H. Wheeler, Premises.
Architect...None.
Day's work. COST, $500

DWELLING
(15) N FIFTY-SECOND 80 W Genoa, Oakland. One-story 6-room dwlg.
Owner.....Frank W. Burger, 858 52d, Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(21) E VIOLA 300 S Allendale Ave., Oakland. One-story 4-room dwlg.
Owner.....H. A. Pleitner, 954 Fruitvale Ave., Oakland.
Architect...None.
Day's work. COST, $1500

ALTERATIONS
(22) NO. 748 SIXTIETH, Oakland. Alterations.
Owner.....Mrs. H. Lack, Premises.
Architect...None.
Contractor..Wm. C. Helms, 5827 Dover, Oakland.
COST, $400

DWELLING
(23) S SHERIDAN 266 E Redwood Road, Oakland. One and one-half-story 7-room dwelling.
Owner.....J. E. Denton, Redwood Rd. and Central Ave., Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(24) E MAGNOLIA 168 S 30th, Oakland. One-story 5-room dwelling.
Owner.....Eveline Forrest, 985 35th, Oakland.
Architect...None.
Contractor..Thomas Ruthford, 985 35th Oakland.
COST. $2050

CLASS "C" DWELLING
(25) LOTS 4 AND 5 Map Craig Ppty. and Lots 15 and 17 and W ½ Lot 19 Piedmont Tract, Piedmont. Electric wiring except work in yard for one-story Class "C" dwelling.
Owner.....Juliette Alexander, 1006 16th, Oakland.
Architect...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..Electrical Constr. Co., 312 12th, Oakland.
Filed Jan. 5, '16. Dated Dec. 29, '15.
1st day of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $660
Bond, $330. Surety, Fidelity & Deposit Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

GARAGE
(26) No. 5041 BROADWAY, Oakland. Garage.
Owner.....H. Smythe, Premises.
Architect...None.
Contractor..M. E. Hopper & Sons, 90 Glen Ave., Oafland.
COST, $400

ALTERATIONS
(27) NO. 190 TENTH, Oakland. Alter.
Owner.....Mrs. Belle M. Foulton, Los

Angeles, Cal.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(28) NO. 1323 WASHINGTON, Oakland Alterations.
Owner.....Aronson's Savoy Shoe Co., Premises.
Architect ...None.
Contractor..Bay City Cabinet Co., 1080 5th, Oakland.
COST, $1500

DWELLING
(29) NE ROSE AND HOWELL, Oakland. One-story 4-room dwelling.
Owner.....Mrs. Amelia Moore, Hayward, Cal.
Architect ...None.
Day's work. COST, $1175

ADDITION
(33) NO. 1088 NINETY-EIGHTH AVE. Oakland. Addition.
Owner.....H. B. Wolfe, Premises.
Architect ...None.
Contractor..Sam Thuesen, 62 Linda Ave., Oakland.
COST, $400

REPAIRS
(34) NO. 361 SANTA CLARA AVE., Oakland. Repairs.
Owner.....Mrs. W. A. Smith, Premises
Architect ...None.
Contractor John A. Brett, 727 59th, Oakland. COST, $400

ALTERATIONS
(35) NO. 520 OAKLAND AVE., Oakland. Alterations.
Owner.....Mrs. Sara Pike, Premises.
Architect ...None.
Contractor..John A. Russell, 3614 Porter, Oakland.
COST, $600

ADDITION
(36) NO. 736 FIFTY-FOURTH, Oakland. Addition.
Owner.....J. Gartland, Premises.
Architect ...None.
Contractor..J. P. Durham, 5301 Grove, Oakland.
COST, $100

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
4	Thaxter	Thaxter	3000
5	Mortimer	Armstrong	400
16	Butler	Aylworth	2000
30	Strom	Strom	1000
31	Morse	Morse	3100

DWELLING
(1) W REGENT 201½ S Webster, Berkeley. Two-story 7-room dwelling.
Owner.....Georgie T. Thaxter, 2454 Ashby Ave., Berkeley.
Architect ...None.
Contractor..F. W. Thaxter, 2454 Ashby Ave., Berkeley.
COST, $3000

ALTERATIONS
(5) NW CENTER AND SHATTUCK Ave., Berkeley. Alterations.
Owner.....W. J. Mortimer Co.
Architect ...None.
Contractor..F. E. Armstrong, 2249 Hearst Ave., Berkeley.
COST, $400

DWELLING
(16) E GRANT 111 S Hearst Ave., Berkeley. One-story 5-room dwelling.
Owner. ....B. F. Butler and Geo. Alyworth, 333-A 49th, Okd.
Architect ...None.
Day's work. COST, $2000

DWELLING
(30) N DERBY 120 W Baker, Berkeley. One-story 5-room dwelling.
Owner.....Axel Strom, 1627 Parker, Berkeley.
Architect ...None.
Day's work. COST, $1000

DWELLING
(31) W SPRING 200 S Rose Terrace, Berkeley. Two-story five-room dwlg.
Owner.....T. O. Morse, 3040 Halcyon, Berkeley.
Architect ...None.
Day's work. COST, $3100

ALTERATIONS
(32) N STUART 200 E Telegraph Ave. Berkeley. Alter two two-story dwelling into school.
Owner.....City of Berkeley.
Architect ...Hobart & Cheney, Crocker Bldg., San Francisco.
Contractor..Jones & McGovern, 2218 Los Angeles, Berkeley.
COST, $1231

Building Contracts Awarded

Alameda

17	Danton	Demartini	3000
18	Fortman	Kneppler	1500
19	Same	Same	1500
20	Thompson	Owner	50000

ALTERATIONS
(17) NO. 442 PACIFIC AVE, Alameda All work except gas and electric fixtures and window shades for alteration and addition to one-story and basement frame dwelling.
Owner.....Emanuel Danton, S. F.
Architect ...None.
Contractor..Fred Demartini, S. F.
Filed Jan. 4, '16. Dated Dec. 27, '15.
Frame up and roof on.....$400
Completed and accepted..... 300
Usual 35 days..... 300
TOTAL COST, $1000
Bond, $500. Surety, Jos. A. Fiorio. Limit, 70 days. Forfeit, none. Plans and specifications filed.

DWELLING
(18) W BAY 70 N Pacific Ave., Alameda. One-story 5-room dwelling.
Owner.....E. D. Fortmann, 803 Haight Ave., Alameda.
Architect ...None.
Contractor..R. W. Kneppler, 606 Haight Ave., Alameda.
COST, $1500

DWELLING
(19) W BAY 96 N Pacific Ave., Alameda. One-story 5-room dwelling.
Owner.....E. D. Fortmann, 803 Haight Ave., Alameda.
Architect ...None.
Contractor..R. W. Kneppler, 606 Haight Ave., Alameda.
COST, $1500

SAFETY RACER
(20) SURF BEACH PARK, Alameda. Safety racer.
Owner. ....H. A. Thompson Pacific Coast Co., Premises.
Architect ...None.
Day's work. COST, $50,000

BUILDING STATISTICS CITY OF OAKLAND, CAL.

For The Year 1915.

Month	Permits	Total Cost
January	204	$ 291,859.00
February	213	328,934.50
March	318	500,373.00
April	291	530,302.75
May	190	350,035.00
June	265	395,474.50
July	269	410,322.85
August	319	506,041.00
September	368	522,597.70
October	384	467,339.59
November	275	455,460.00
December	253	286,549.35
Total	3552	$5,045,289.24
Total for the year 1915....		$5,045,289.24
Total for the year 1914....		4,717,520.00
Increase over year 1914..		$ 327,769.24

CESSATION OF LABOR.

ALAMEDA COUNTY.

Dec. 31, 1915—W MILES AVE 200 S Convourt S 40xW 100, Okd. Emelia Siegriest with J W Crow Work ceased ..... Nov "

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Jan. 3, 1916—W SPRUCE 180 S Rose S 99xW 134-7, Bkly. Edmund McComb as to improvements on leased property .....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Dec. 31, 1915—W TELEGRAPH AVE 40 S 23rd S 23 W 101.27 S 55.74 E 102.18 N 55.74 to beg, Okd. Swedish American Hall Ass'n to Alfred Olson.....Dec. 30, 1915

Dec. 31, 1915—LOT 9 BLK 9 Map Thousand Oaks, Oakland Tp. Geo Friend to A H Pallen....Dec. 28, 1915

Dec. 31, 1915—N CEDAR 75 E Euclid Ave, Bkly. Pauline Gunthorp by James W Plachek to C H Warren .....Dec. 21, 1915

Jan. 3, 1916—N PACIFIC AVE 56 W Bay N 70xE 119, Alameda. E D Fortmann to R W Kneppler..... .....Jan. 3, 1916

Jan. 5, 1916—LOT 15 Map Maple Terrace, Okd. E W Barrett and Carrie L Tiffany to W Ramsey Brookes... .....Jan. 5, 1916

Jan. 5, 1916—W CORONADO AVE 200 N 51st 40x100, Okd. Clara Maria Sall to Carl O Johnson....Jan. 3, 1916

Jan. 5, 1916—LOT 2 BLK "N" Amended Map Regents Park, Bkly. R B Pope to whom it may concern..... .....Jan. 5, 1916

Jan. 5, 1916—LOTS —, Country Club Heights Tract on Thomas St., bet Prospect and Napa, Okd. R E Stubbe to whom it may concern.. .....Dec. 31, 1915

Jan. 6, 1916—RIGHT OF WAY IN

Town of Livermore. Southern Pacific Co to Californoa Bitulithic Co.....Jan. 5, 1916

Jan. 6, 1916—LOT 7 BLK 6 Map Claremont Park, Bkly. Herbert Heitman to H H Weider.Dec. 17, 1915

Jan. 6, 1916—NO. 4433 EVANS AVE bet. Everett and Wellington, Okd. C E Warren to O E Nelson, Supt.. .....Jan. 6, 1916

Jan. 7, 1916—N ELLIOT 60 E E-33rd E 60xN 60, Okd. Ida Fabing to F N Fabing.... .....Jan. 3, 1916

LIENS FILED

ALAMEDA COUNTY.

Dec. 31, 1915—SW SACRAMENTO & Francisco S 100xW 80, Bkly. Sunset Hardware Co. vs Henry A Lehfeldt, E M Reagh and C H Lewis $103.41

Dec. 31, 1915—N MONTANA 275 W Curran Ave W 440xN 100, Okd. Bay Elec Co vs A B Chase, John and Jane Doe $84

Dec. 31, 1915—LOT 9 BLK "B" Map Oakland Highlands, Okd. Inlaid Flood Co vs A B and Augusta E Chase and H M Fuller.....$115

Dec. 31, 1915—SW SACRAMENTO & Francisco S 100xW 80, Okd. Hunter Lumber Co vs E M Reagh and H Lehfeldt $499.22

Jan. 3, 1916—E BROADWAY 180 S Central Ave S 38xE140-2, Alameda. C F Fisher vs Enricho and Jesusita D'Agostini $153

Jan. 3, 1915—LOT 16 BLK "B" Map No. 2 San Pablo, Bkly. Frank Montano vs Gustaf Johanson.....$200

Jan. 4, 1916—LOT 98 Bap Santa Fe Tract No. 29, Okd. Bruce Lumber & Mill Co vs Gustaf Johanson and J J Benton $82.17

Jan. 4, 1916—LOT 16 BLK "B" Map No. 2, San Pablo Park, Okd. Bruce Lumber & Mill Co vs Gustaf Johanson and Myer Hyman.....$258.22

Jan. 5, 1916—LOT 9 BLK "B" Map Oakland Highlands, Okd. J A Johnson, $58; C E Johnson, $23.75 vs A B Chase .....

Jan. 6, 1916—LOT 9 BLK "B" Map Oakland Highlands, Okd. Powell Bros Constr Co vs A B Chase, Augusta E Chase and H M Fuller $86.05

Jan. 6, 1916—LOTS 1, 2, 3, 4 BLK "E" Map Anspacher Tract, a resbdvn of Hayward Tract, Hayward. H E Brunner vs Sarah A and Charles Henderson $20.10

Jan. 6, 1916—N FORTY-FIRST 117 SE Linden SE 50 NE 88.31 W to curve to left 52.26 W 73.23, Okd. Sunset Lumber Co vs Charles Izola $111.18

RELEASE OF LIENS

ALAMEDA COUNTY.

RECORDED AMOUNT

Dec. 29, 1915—PTN LOT 13 Amended Maps lands Teutonia Park, Homestead Ass'n., Alameda. Rhodes Jamieson & Co to W G Le Boyd and W F Kroll.....$54.70

Dec. 31, 1915—S TENTH 100 E Oak E 100xS 100, being Lots 11, 12, and 3 Blk 136 Kellersberger's Map, Okd. Oakland Paving Co, $700; Pacific Fuel & Bldg Material Co, $811.95; E L Walter, $207.06; Sunset Lumber Co, $300; Oakland Plumbing Supply Co, $183.05; John P Maxwell, $459.70; L H and P A Spott, $586.41 to Eugene A Schmidt.....

Dec. 31, 1915—LOT 27 Map Mesa Alta Tract No. 2, Okd. Redwood Manufacturers Co to Ralph Noble et al $305.56

Jan. 4, 1916—(1) LOT 12 Map Sylvan Crest Tract; (2) Lot 11 Map Sylvan Crest Tract, Okd. John P Maxwell to W A Whitaker et al..... .....(1) $30; (2) $28.93

Jan. 7, 1916—SE BRUCE AND BANcroft Way S 33⅓xE 80, Bkly. N W Parker to Carl Ericsson & Kingston Investment Co.....$66

Jan. 7, 1916—SW SIXTY-FOURTH Ave and Virginia Ave W 112.97 S 30 E 112.81 N 34.89, Okd. Sunset Lumber Co to K M Sheridan et al $43.75

Jan. 7, 1916—E BRUCE 66⅔ E Bancroft Way S 33⅓xE 80, Bkly. N W Parker to Carl Ericsson and R L Langworthy $66

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

ALTERATIONS

NO. 425 S-SECOND ST., San Jose. Alterations.
Owner.....U. Wood, Premises.
Architect ...A. P. Hill, Porter Bldg., San Jose.
Contractor..S. H. Grandrup, 132 N-16th (rear,) San Jose.
COST, $3600

REPAIRS

NO. 79 S-MARKET ST., San Jose. Repairs.
Owner.....Jas. A. Betty, Premises.
Architect ...None.
Contractor..H. A. Bridge, 725 S-7th St., San Jose.
COST, $3000

RESIDENCE

SE FOURTEENTH AND SAN ANTONIO Sts., San Jose. Two-story residence.
Owner.....A. M. Whiteside, 71 S-19th St., San Jose.
Architect ...None.
Day's work. COST, $3000

ALTERATIONS

NO. 131 S-TWENTY-THIRD ST., San Jose. Alterations.
Owner.....N. D. Sherwood, Premises.
Architect ...None.
Day's work. COST, $2500.

COTTAGE

TWELFTH NEAR SAN ANTONIO ST., San Jose. Six-room cottage.
Owner.....Rees Williams, Premises.
Architect ...None.
Day's work. COST, $2000

BRICK BUILDING

FIRST AND JULIAN STS., San Jose. One-story brick building.
Owner.....Harry Hoover, Bank of San Jose Bldg., San Jose.
Architect ...— Wolf, Bank of Italy Bldg., San Jose.
Contractor..G. Miller.
COST, $2000

COTTAGE

N COE, bet. Delmas and Bird, San Jose. Six-room cottage.
Owner.....F. O. Nelson.
Architect ...None.
Day's work. COST, $2000

COTTAGE

SIXTEENTH NEAR EMPIRE, San Jose Six-room cottage.
Owner.....Wm. O'Neil, Premises.
Architect ...None.
Day's work. COST, $2000

HEATING SYSTEM

LOTS 9 TO 20 INCL AND LOTS 30 TO 39 incl Blk 180, Walls Addition to Richmond. All work for heating system for Pullman School.
Owner.....Board of Education, Richmond, Cal.
Architect ...Jas. I. Narbett, 704 Macdonald Ave., Richmond.
Contractor..J. E. O'Mara, 449 Minna, San Francisco.
Filed Dec. 24, '15. Dated Dec. 15, '15.
Progressive payments up to 75% of contract price.....
Usual 35 days..... 25%
TOTAL COST, $637
Bond, $318.50. Surety, Fidelity & Deposit Co. of Maryland. Limit, as fast as building will permit. Forfeit, none. Plans and specifications filed.

FOUNDATION, ETC.

SOUTH SIDE OF WAREHOUSE NO. 1 & E of warehouse No. 4 on refinery's property at Crockett. All labor, material, implements, tools and machinery for installing foundation for Two-story and basement reinforced concrete warehouse No. 5 and connecting railroad viaduct on site of refinery.
Owner.....California & Hawaiian Sugar Refining Co., Crockett, Cal.
Architect ...None.
Contractor..Clinton Constr. Co. of Cal., 140 Townsend, S. F.
Filed Dec. 28, '15. Dated Dec. 27, '15.
Payments not given.....
TOTAL COST, $116,000
Bond, $60,000. Surety, California Casualty Co. Limit, start work 10 days from Dec. 27 and finish in 175 days. Forfeit, none. Plans and specifications filed.

LIENS FILED

SAN MATEO COUNTY.

RECORDED AMOUNT

Dec. 31, 1915—MAIN & BRADFORD, Redwood City. City Street Improvement Co vs F W and Florence Glennan $451.95

Dec. 31, 1915—BRADFORD & MAIN, Redwood City. City Street Improvement Co vs F W Glennan.....$191.50

Dec. 31, 1915—NE ¼ of Sec 25 Twp 7 S Range 3 West M D M. J W Fish vs Caroline & Joseph Scarpa.$233.84

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING

LOTS 35 AND 36 BLK 1 La Sierra Tract Fresno. Dwelling.

Owner.....Central California Land & Improvement Company.
Architect ...None.
Day's work. COST, $2850

DWELLING
NO. 3552 BALCH AVE., Fresno. Dwlg.
Owner.....H. H. Hawley.
Architect ...None.
Day's work. COST, $2800

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
Dec. 30, 1915—LOTS 34 AND 35 BLK 1 Maywood, Fresno. Myron E Ware to whom it may concern. Dec. 27, 1915

BUILDING CONTRACTS.

FRESNO COUNTY.

DWELLING
LOTS 13 AND 14 BLK 4, Woodwards Add'n., Fresno. Dwelling.
Owner.....M. M. Jelladian, 156 Isabella St., Fresno.
Architect ...None.
Day's work. COST, $1050

BUILDING CONTRACTS

SACHAMENTO COUNTY.

FRAME DWELLING
TWENTY-SECOND , bet 1st and Second on Lot 72, West Curtis Oaks, Sacramento. All work for one-story 6-room and bath frame dwelling with concrete foundation.
Owner.....J. C. Carley Co., 826 J St., Sacramento.
Architect ...None.
Contractor..Corum & White, 2523 1st Ave., Sacramento.
COST, $2500

ALTERATIONS
NO. 1612 Q ST., on E ½ Lot 2, Q, R, 16th and 17th Sts., Sacramento. Raise dwelling about 18 inches, finish off 4 rooms and bath on ground floor.
Owner.....Minnie Savartz, 1612 Q St., Sacramento.
Architect ...None.
Contractor..W. Martin & Son, 1217 19th Sacramento.
COST, $1291

NO. 420 K ST., on W ½ of E ½ Lot 3, K, L, 4th and 5th Sts., Sacramento. Remodel one-story brick moving picture show house.
Owner.....Annie Marks. L. H. Marks, Lessee, Premises.
Architect ...None.
Contractor..W. W. Kennedy, 3330 Orange St., Sacramento.
COST, $500

BUILDING
NO. 1801 THIRTEENTH ON LOT 1, R, S, 13th and 14th Sts., Sacramento. One-story "Denison" tile laundry building with concrete foundation.
Owner.....D. Duval, B. F. Ivy et al, K St., bet. 10th and 11th Sts., Sacramento.
Architect ...None.
Contractor..Geo. D. Hudmutt, Inc., California Fruit Bldg., Sacramento.
COST, $10,000

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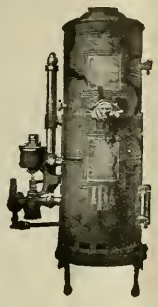

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Leading Articles in this Issue:

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By Harrison S. Taft, Esq., Seattle, Wash.

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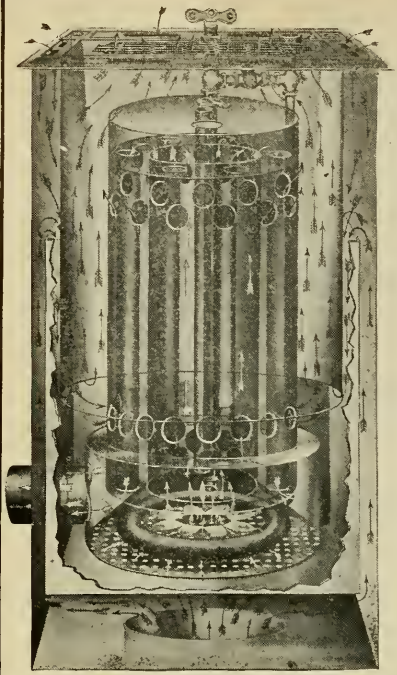

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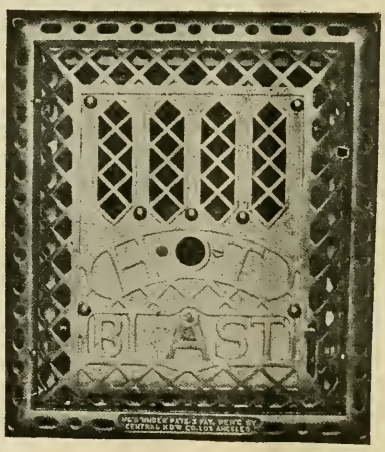

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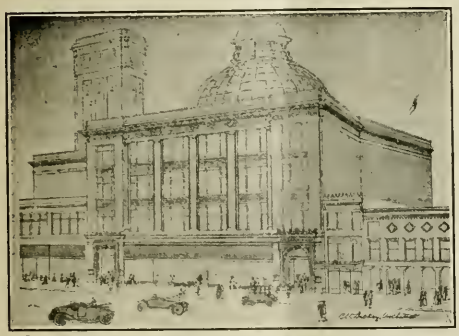

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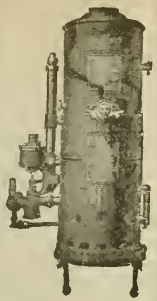

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Use of Wood and Concrete in Structures Standing in Sea Water with Special Reference to Dock Work.

By Harrison S. Taft, Esq., Seattle, Wash.

PART I. WOODEN PILES IN SEA WATER STRUCTURES.

Propagation and Life of the Teredo.

Wooden piles standing in sea water are subjected to the ravages of the Teredo and the Limnoria. The teredo enters the pile between mean low tide and the mud line, through a hole of pinhead size and bores out its interior as it grows longer, the destruction wrought is thus unseen on the surface and wooden piles that have a safe look externally may be so honeycombed by the internal borings of teredo asto be absolutely incapable of bearing any load whatsoever.

The limnoria not only work more slowly but they attack the exterior of the pile and do not enter into it; the destruction wrought by this wood borer being readily observed. The result of limnoria attack is to give the pile an hour glass shape, the most serious destruction being at a point midway between high and low water. the internal borings of teredo as to be great, in piles of long length, as in the case of the teredo.

After the teredo has entered a pile it usually follows along the grain of the wood, riddling the interior of the pile by a series of holes about one-fourth inch in diameter. Though the worms keep clear of each other in making these holes, or bores, at times they leave a partition of only one-sixteenth inch between the different bores. If by chance the bore of one teredo breaks throug into the bore of another, it has been authoritatively stated that the first teredo thereby ceases to be active and soon dies. In a number of instances it has been noticed that sea borers will not attack new lumber if any old lumber is in the same vicinity for them to work upon. In Alaskan waters the time of attack seems to be dependent upon the possibility of old piles being in the same vicinity.

The ordinary growth of a teredo navalis depends on the warmth of the water. Generally they are from six to twenty-four inches long with a diameter up to three-fourths inch. In the East Indian and China Seas the teredo gigantia is said to grow to a size of six feet in length and three inches in diameter, such types existing in shallow water among the mango trees.

From a paper presented at the International Engineering Congress, San Francisco, 1915.

Being curious to learn how such soft worms as teredo could eat with apparent ease into wood, especially into such hard wood as "Black Ironwood," a well known and experienced English dock engineer obtained a large quantity of teredo and made a study of their construction. He says that "if anyone will take hold of one of these worms just behind the head, pinching it firmly and compressing the back of the head, such treatment will cause two strong, sharp black teeth to protrude of such sharpness that the blade of a pen knife can make no impression upon them." He also states that the teeth are surrounded and hidden by an exceedingly strong sphincter muscle; that the supposed head of the worm, for they are acephalous, has a perfect designed grab with harp chisel teeth well adapted for the work of wood boring.

Without going too deeply into the natural history of the teredo a few facts as to their general nature, the different species, their propagation, growth and life will no doubt he of interest. As is well known, the teredo consists of a boring head with its two sharp teeth, and of a body or a mantle containing two siphons that constantly increase in length as the worm burrows into the timber. While the function of the head is to grind away the wood in front of it, the siphons provide a means of pumping in water through one and extruding the pulverized wood or pulp, as it were, through the other. The outer ends of the siphons pass out of the tail end of the teredo in two branches into the water outside the timber like two outlets to a river. Food is also taken in through the intake siphon, the excretions passing out through the discharge siphon.

Activity of Teredo and Limnoria.

The most pernicious action of teredo and similar sea worms seems to be where the water is calm, salty and warm, with a degree of clearness, free from mud and heavy pollution. In some harbors sewage has so polluted the sea water that teredo long since ceased to exist. While such a condition has for a great many years existed in the waters immediately surrounding New York Harbor dock front north of a line drawn from Bay Ridge to the eastern entrance of the Kill Van Kull, outh of such an imaginary line and further out beyond the Narrows the teredo till exist in considerable quantities. In at least one instance in lower New York Harbor it was found that while sewage had so polluted the water as to act as a protection to green piling against teredo attack through tidal ranges, yet for a distance of from one to two feet above the mud line the teredo action was quite severe, thus showing that while teredo may not exist at tidal levels, such a fact is no guarantee that they do not exist near the mud line, the location of their most active attack. At the mouth of fresh water rivers, the inflowing salt water of neap tide, being of a great specific gravity than the fresh water of the river itself, has, in a number of instances, been known to carry the teredo along the bottom of the river further up stream than would otherwise have been supposed and the green piles have failed because such a transfer of the teredo beyond the limits of true salt water conditions.

In the opening up of a new waterway at one of the Pacific Coast cities, a rather peculiar situation was created. Hitherto the winding stream had been free from teredo to a point quite near its out-flow into the salt waters of the adjoining sound. After the new straight channel had been cut through the territory, green pile structures that had hitherto been immune from attack were soon destroyed. Investigation showed that a layer of sea water, practically two feet deep and infested with teredo, existed throughout part of the new channel along its bed, though the water at the surface was still that of the fresh-water stream. In view of the salting of Lake Miraflores at the Canal Zone, Panama, and the expectation that similar conditions will exist at Salmon Bay, Puget Sound, Washington, due to the lock recently completed at the outlet of the bay into the sound, a new problem seems to present itself to the harbor engineers in respect to the use of green wooden piles in what would ordinarily be supposed to be fresh-water bodies. The existence of a layer of salt water, infested with teredos, along the bed of supposedly fresh-water streams, is one which will no doubt be carefully studied hereafter by the dock engineer when constructing wooden pile structures under such conditions.

In ports situated on fresh water rivers far from the sea, such as Phil-

though still exposed to other destructive actions.

Probable Life of Green Piles Subject to Teredo Attack.

The time necessary for the destruction of a green pile by sea borers varies according to its location. In San Francisco and Southern California ports, 2½ years is said to be the longest possible life of an untreated Douglass fir pile when used under the most favorable conditions, but less than one year when the pile is subject to abrasion, as with the fender piles. In fact it has been officially stated that a green fir pile will become so honeycombed in San Francisco Bay at the end of 8 months as to have absolutely no bearing capacity. While there are said to be records of from four to six years for untreated piles in said waters where no abrasion took place, it is fitting to point out that "100 per cent of all untreated piles driven by one company in four of the Pacific Coast ports had to be replaced inside of seven years."

The life of green piles along the Southern Atlantic and Gulf Coast of the United States is said to be from eight to twenty-four months, but where the waters are very salty and in the hot season but three months; hardly long enough to permit of a green pile structure being built.

In Alaska, native spruce piles have been completely destroyed inside of eighteen months. Still it is claimed that cottonwood piles will last much longer in these waters, especially if the piles are unpeeled. In Seattle a green pile will last about twelve months.

While the Pacific Coast dock engineers have not perhaps full information upon this important subject, Mr. W. D. Faucette has furnished valuable data covering all the important ports situated upon the Atlantic and Gulf Coast.

Different Kinds of Wood Used in Dock Piles.

Soft wood piles, such as pitch pine or Oregon pine, are quickly attacked by sea borers. Harder types of wood, such as the oak and teak, are not so freely attacked as are the woods of the pine family.

The best class of Jarrah, such as is grown in West Australia, will effectively resist attack of sea worms.

While black ironwood is hard, tough and of great strength, teredo easily attack it. Since it rapidly decays out of water it is not suitable for dock work.

Sneeze wood is another hard and strong type of timber. Since it contains a pungent oil, its resisting power against attack of sea borers is excellent—almost as good as greenheart—but it has to be banded against splitting in driving.

Vera can also be depended upon to resist the teredo.

Blue gum contain an acid or poisonous quality that is said to render it immune against sea borers. Still bluegum piles were entirely destroyed by teredo inside of five years at a Southern California port.

Greenhart is the wood most relied upon by foreign dock engineers. It is generally proof against sea worms of all kinds, due to the poisonous oil it contains. It is a very tough and strong wood but liable to split when being driven, so that it has to be banded for almost its entire length to permit of driving.

It has been stated that greenheart piles have been severely attacked by teredo in such warm waters as the Caribbean Sea.

Palmetto piles as used in Florida are said to be free from teredo attack.

Douglass fir as found in the immense forests of the States of Washington and Oregon is almost universally used in all Pacific Coast docks of this country, even up to 125- to 130-foot length piles.

Some time ago attempts were made to use piles from the Eucalyptus tree in dock work, but the results were far from satisfactory, either in New Zealand, Australia or San Francisco.

Preservation of Wood Piles.

While numerous methods have been tried to preserve green wooden piles from attack of teredo and other wood borers, the "creosoted treatment" is the most efficient protection devised up to the present date. A system of pile protection practiced for years by the Dutch engineers was to drive iron or copper nails into their wooden structures at regular intervals, the rusting of the nails creating an iron coating to the timber that acted in the nature of a preventive against attacks of wood borers. Another system was to wrap the piles with burlap and give the whole a coat of tar. Piles so treated are known as "wrapped piles." While this system served its purpose for a time and a number of dock structures were built on "wrapped piles," its lasting qualities did not prove sufficiently effective and the system has given way to the creosoted treatment. A method of pile protection formerly used to a large extent in San Francisco Harbor was to surround the wooden pile with a concrete shell, four or five different methods having been devised for so doing. Similar methods have been used in Puget Sound waters to protect the trestle piles of one of the local trolley lines across the tide flats. While other methods of pile protection have been used in the past, they have almost, if not entirely, yielded to the creosoted pile.

Though a very concise history of the development of the art of preservation of timber by Mr. F. D. Beal, creosote engineer of Portland, Oregon, is to be found in Vol. XII, No. 1, of the Proceedings of the Northwest Pacific Society of Civil Engineers, it is fitting to briefly state the history of the modern art of creosoting, viz., the "Injection of heavy oil of coal tar" into the wood. This process was perfected and patented by Mr. John Bethell in 1838 and consisted in "Impregnating the wood throughout with oil of tar and other bituminous matters containing creosote and also pyrolignite of iron, which holds more creosote in solution than any other watery menstruum." The first commercial use of the mode seems to have been made in 1865 for the Old Colony Railroad. Even then ten years elapsed before there was any extensive adoption of the art. In 1875 extensive creosote operations were undertaken in connection with the L. & N. Ry. Since that date the art has been more and more widely used, until at the present date there are at least 150 operating timber-treating plants in the United States, though the details of their treatment are not the same—the creosoting process being used by some, the zinc chloride method by others.

The general method of impregnating timber with creosote oil, though the mode varies in detail according to system of preservation used, is as follows: After the green timber is put into the cylinders, steam is admitted and maintained at the desired pressure until the wood is thoroughly sterilized and the sap liquified. A vacuum is then created in the cylinders so as to vaporize the liquified sap and withdraw it from the timber, the cylinders being kept hot during this vaporizing process. After the wood has become perfectly dry the cylinders are filled with creosote oil and kept under pressure until the desired penetration of the creosote is obtained, after which the timber is withdrawn from the cylinders and stored or shipped to destination. From 24 to 36 hours are usually needed for the proper application of the process. When the timber is thoroughly dried out or seasoned before placing in the cylinders, the vaporizing part of the process is omitted.

As long as the protecting creosoted coat or shell of a pile remains unbroken, the interior of the pile is protected, no matter how thin may be the protecting shell. Once the coating is pierced, no matter how small the opening, the pile's defenses are broken, the teredo enter upon their journey of destruction at this point of failure and the rest of the pile coating becomes useless. Such a breaking down of the defensive coating can be brought about by improper handling, by abrasion and wear due to floating objects, etc., which of course should be kept out from under the dock if any consideration is to be had for the life of the piles and safety of the structure as a whole.

A cause of greater danger than the danger from teredo attack on creosoted piles, is the checking or opening up of the pile due to driving, which of course exposes non-treated surfaces to the worm and hence permits its early entrance into the pile, in spite of the protection afforded by the treated surface.

In the process of creosoting, wooden piles lose considerable of their elasticity and the outer surface is more easily ruptured than the surface of an untreated pile. Thus a treated pile in dock work will snap more easily under a lateral blow or pressure than will a green pile unaffected by wood borers. Since teredo attacks are more active below the low-water line and the abrasion of fender piles is for the most part above this line, it would appear that in certain cases where only small vessels use the dock, that creosoted fender piles are preferable to green piles. Where the fender piles are subject to the blows of heavy steamers, a green pile should always be used, as it is the most economical.

The fact that a green pile has more compressive and transverse strength than a creosoted pile has been definitely proven; hence it is apparent that a

adelphia, Portland, Ore., and New Orleans, wooden-pile docks are naturally free from the destructive teredo, creosoted pile cannot be loaded to such an extent as a green pile, under the same conditions. In a series of tests made under the direction of H. B. MacFarland of the Atchison, Topeka and Santa Fe R. R., it was conclusively demonstrated that, in general, the strength of an Oregon fir pile subjected to the steaming process of creosoting has only two-thirds its original strength, the transverse strength being decreased 42 per cent, the compressive strength perpendicular to the grain 27 per cent, and the compressive strength parallel to the grain 27 per cent.

In building docks, a large amount of rip-rap is often dumped in around the creosoted piles after the piles are driven. Is it not reasonable to suppose that rip-rap so deposited may injure the protective creosoted skin of some of the piles, so as to permit of an early ingress of the teredo? Then again, in driving new piles through such a rip-rap, will there not be the possibility that the part of the pile between mud line and the top of the rock fill will be injured by contact with the rip-rap so as to permit the early entrance of the teredo? The writer does not wish to imply that such is always the case, but it is a point well worth considering in repiling a dock through a rip-rap fill, quite aside from the other difficulties of driving a pile under such conditions. If the original voids in the rip-rap are so completely filled with sand or mud as to exclude the teredo from the section surrounded by rip-rap, no danger may occur from such an abrasion of the protective skin; but does rip-rap become so filled?

Amount of Creosote Treatment Needed.

It has been stated that experience indicates that the amount of treatment needed in cresoting a pile "is inversely proportionate to the distance of the Gulf Stream away and inversely proportionate to its latitude."

On the Pacific Coast the universal practice is to use a 12-pound treatment for commercial work but a 16- to 20-pound treatment for government work (mostly 16-pound) standing in sea water. At San Francisco they use a 12-pound treatment, while at Los Angeles the city uses a 16-pound treatment.

Life of Creosoted Piles.

As the strength of a chain is that of its weakest link, so the safe life of a dock structure is that of its piles. While records show that green piles used in building foundations have lasted for over a thousand years, no such record has ever been established for dock piles. It is perfectly apparent that local conditions will determine the life of either creosoted or green piles; while the former may in certain cases last for twenty to forty years, it is not the part of safe engineering to assume any such length of life for a dock pile standing in teredo-infested waters. In New York City the green piles used in municipal docks last from thirty to forty years, in most cases longer than the safe and economical life of the superstructure.

Creosoted piles driven in 1876 in connection with the foundations of a railroad bridge over East and West Pascagoula River, Miss., not far from the open Gulf, were found to be in such excellent condition in 1904 as to permit of their being used in the foundation work for a new bridge at the same place, and they are supposedly in use at the present date. Since large volumes of fresh water exist at times in the Pascagoula, this example is not, perhaps, a fair one to quote as showing the life of creosoted piles in salt and teredo-infested waters; the more so since it has been stated that at times even untreated piles have not been attacked by teredo at said location.

Another, and perhaps the best, illustration of the long life of creosoted piles in infested waters is the case of a creosoted-pile freight wharf at Oakland, California, where the piles are said to have been "24 years in service with no renewals."

Again at Santa Monica, California, creosoted piles which had been in use for twenty-two years, upon being removed were found to be in such good condition as to warrant their use over again in another structure.

While the reports indicate that under favorable conditions creosoted piles will last for twenty years in San Francisco Bay when the usual conditions which result from flotsam, abrasion and other kinds of wear and tear are taken into consideration, the life of a creosoted pile in San Francisco docks has been stated to be about twelve years. On the other hand the records of the Southern Pacific show that only 8 per cent of the creosoted piles in service for twenty years had to be replaced for causes other than mechanical breakage. It was expected that the rest of the piles would have a total life of thirty years.

It is perfectly evident from study of the record that local conditions, the activity of the worm, the general use to which the structure is put, the amount and carefulness of the creosote treatment and other causes of a local nature will govern the actual safe and useful life of a creosoted pile in any given locality. In general it may be said that a creosoted pile dock structure has a safe life of about fifteen years in the average teredo-infested American port. With piles thoroughly impregnated with the best creosote oil and care taken to avoid unnecessary abrasion of the pile structure, it is perhaps possible to get a life of twenty years.

Loads Upon Wooden Piles.

It is very evident that piles in docks, due to their greater unsupported length above the mud line, cannot be loaded as heavily as land foundation piles. It is also evident that the soft mud found in most harbors will afford but little lateral support to the pile and that its real unsupported length is, therefore, greater than the length of pile above the mud line. It has been stated by one leading authority that, in general, only the lower third of the penetration should be substracted from the total length of a pile in determining its unsupported length, in other words, that the length of the pile above mud-line plus two-thirds of its penetration should be taken as the pile length in figuring its strength as an unsupported column.

With the varying length of piles found in an ordinary dock, such refinement as figuring the permissible load for each and every pile may be questionable, since years of actual experience have more or less determined a proper loading, and hence spacing, of dock piles. It is perfectly evident that a large diameter pile can be loaded heavier than a small diameter pile and that a concrete pile will carry more than a wooden pile, the loads upon the latter varying as their size. Still the load imposed upon dock piles depends not so much upon the strength of the material of the pile as upon its penetration and the carrying power obtained from the skin friction and end bearing of the pile.

Though at times, and maybe very frequently, dock piles are subjected to very heavy loads, it is not the practice to figure them for loads much, if any, over 15 tons per pile, as provisions must be made for diminution of strength due to decay from natural causes. When used in dock work, a load of from ten to fifteen tons per pile is considered a fair allowance for wooden piles, that for concrete piles being determined by the size and length used. The standard practice of the Department of Docks and Ferries of New York City is to allow 15 tons per pile under main part of the dock and 12½ to 15 tons under columns of the superstructure, the dock loading being taken at 500 pounds per square foot.

(Continued next week.)

MARYSVILLE SEWER COMPLETED.

All of the work contracted for by the city of Marysville under the $18,000 bond issue has now been completed, the last of the drainage sewers extension job having been completed by Stanley & Ostrander, with the connection of the new unit with the old system at a point near Tenth and E streets. The contract for street grading and filling a section of Ellis lake was completed some time ago by Hewitt & Felch.

No close estimate has been made of the total cost of the improvement work, although to include the extras the expenditure will probably reach reach $25,000.

City Engineer W. M. Meek states that all the work performed is entirely satisfactory and in accord with the specifications. The sewer was started at Fourteenth and D streets and built in a southerly direction to meet the outlet of the old system.

At the present time, under the direction of Meek, the city has a crew of men, with teams, engaged in filling in a gap on the new section of D street, between Ninth and Tenth, which was made to allow for the passage of water before the extension of the sewer was complete. To take care of rain water on the west side of D street, where the fill is not sufficient to bring the land to the official grade of the city, pipe is now being laid for drainage purposes into the lake. The work of completing the fill will be prosecuted by the city as soon as any funds are available for the purpose. The land comprises part of Washington Square.

Until the earth has nad a chance to keep the newly improved section of D settle and pack, it has been decided to cut up by traffic.

Report of Eureka City Engineer.

The annual report of G. A. Strand, City Engineer of Eureka, was the longest and most detailed report of any of the city officials. The amount if work done through the city engineer's office in the past year has greatly exceeded that of previous years. Sidewalk surveys totaled 54,052 feet as against 30,000 feet the previous year. Street surveys totaled 29,446 feet as against 4,000 feet last year and 9,776 feet the previous year. Grade investigation totaled 7,190 feet, sanitary sewer, 1,167 feet, storm sewer 400 feet, tidelands survey 41,777 feet.

Strand recommends that a tract map be made for the city assessor, that storm sewers be constructed in different parts of the city as those now in use are inadequate and an entire revision of the sewer system. He also recommends that a separate sewerage system for the down town districts be constructed and repairs made to several outfall sewers. He also suggests that a wearing surface be placed on the city streets and asks permission for his office to begin a series of water source investigations, such as possible water supplies, extensions, etc.

The report of the street superintendent shows that in the first ward, $6,665.05 has been expended on street work; second ward, $5,363.48; third ward, $12,750.82; fourth ward, $5,427.39, and in the fifth ward $10,852.62, making a grand total of $41,059.36 spent on street work in the past year.

The report of the superintendent of public works shows that cash on hand (Water Department office), amounts to $191.89; balance in city treasury (when all approved claims are paid), $19,302.94, total balance, January 1, $19,494.83. The December sales of water in the report are estimated at $4,500; December claims for extensions, material, supplies and expenses, $5,175, and the interest payable after January 15, 1916, at $6,750.

Longest Tunnel on Continent Cut.

Announcement that the base of Mount Sir Donald had been pierceu in the great tunnel scheme of the Canadian Pacific Railway in the Canadian Rockies was made by Patrick Welch, chief contractor in the $8,000,000 project, shortly before he left Los Angeles for the north.

Mr. Welch said that when the tunnel, five miles in length, the longest on the continent, was in use it would mean that the railway company would save at least $1,000 a day in operating expenses.

By routing through Rogers Pass, said Mr. Welch, trains have been compelled to make three complete circles to climb to a height of 516 feet. The tunnel practically eliminates the steep ascent through the famous Selkirk range.

Completion of the tunnel to allow of passenger traffic is expected next July, but a month or two prior to that freight trains will be operated through the cut.

Report of Santa Harbara County Surveyor.

No office of the county system has been more busy during the last month than the county surveyor's office, according to the report just filed by County Surveyor Owen O'Neil with the board of supervisors. The most noticeable part of the report is the long list of plans and specifications that have been prepared during the month. The county surveyor has been handicapped because he is allowed no office help but, in spite of this drawback, his report for 1915 shows that he has covered enough ground to keep the supervisors busy accomplishing the work that has been planned.

During the month of December the following work has been in progress:

Guadalupe-Santa Maria paving — west end—grading done.

Ocean avenue grading.

Sisquoc River, piling.

Sutton Slough bridge, done.

Eagle Creek bridge, easterly abutment excavation done, a few piles driven. It has been found necessary to increase length of piles on part of the foundation.

Dos Pueblos Creek bridge, abutments practically done.

Booth's Point road, paving. The concrete foundation, catch basins and drains, have been finished. The placing of the wearing surface will be commenced just as soon as the weather will permit.

Attention of the board is called to the San Lucas bridge over the Santa Ynez River. The beams supporting the floor system have sheared the supports on top of the spandrel bent and apparently left the floor system in a very dangerous condition. The extent of the damage cannot, at this time be estimated, but a more minute and careful examination should be made before an estimate is made. This refers to the first and second spans on the south side of the river.

During the year 1915, plans and specifications have been prepared for the following pieces of work:

San Julian bridge, Foxen Canyon culvert, Sisquoc retaining wall and fill, Santa Monica road paving, Booth's Point road paving, Gaviota Gorge bridge, Dos Pueblos Creek bridge, Eagle Creek bridge, Sutton Slough bridge top raising, fencing of State Highway through R. T. Buell estate, fencing through E. de la Cuesta property, rock for Santa Maria-Guadalupe road, west end; rock for Santa Maria-Guadalupe road east end; fencing through Rhode Island States Corp., fencing through E. S. Cordero property, Corral Creek bridge, Tajiguas Creek bridge, fencing through G. de la Cuesta property, fencing through Hollister estate property, paving Guadalupe-Santa Maria road, west end; paving Guadalupe-Santa Maria road, east end. The field work for several other jobs has been done and some of the office work completed.

Plans have been submitted to the State Highway Commission for approval for bridges as follows:

Overhead crossing, designer, W. M. Thomas; El Capitan, designer, W. M. Thomas; Gaviota Creek (2), designer, W. M. Thomas; Sheep camp, designers, Mayberry - Parker - Johnson; Nojoqui Canyon (4), designers, McCurdy Bros.

The designing of the balance of the bridges in Section C is in the hands of Mayberry-Parker-Johnson and is well along, the method of protection and general design having been approved by the engineer of this division.

The State Highway department has approved the El Capitan bridge design. The two Gaviota Creek designs will have to have several minor changes made in the foundations; and the four bridges designed for Nojoqui Canyon have been approved.

The design for the Quemeda bridge is about ready to be submitted to the Highway department.

New Bridge at Watsonville Is Completed.

The handsome reinforced concrete bridge spanning the Pajaro River at Watsonville is practically completed, and is now thrown open to traffic. This structure, being built by Foster, Vogt & Company, is four hundred and sixty feet long and is paid for half by Monterey County and half by the city of Watsonville. County Surveyor H. F. Cozzens went over on a trip of inspection recently and was much pleased with the work done.

The twenty-one foot roadway in the center of the bridge for vehicles is completed, the asphalt surface being laid and thrown open for travel. On each side of the asphalt roadway is a five-foot strip of sidewalk built of red tile for pedestrians, making a total width of the bride of thirty-one feet. This tiling will be completed shortly.

The electroliers are yet to be erected on the bridge, along the entire length every sixty feet. They will light up the bridge as brightly as any street and will be in keeping with the handsome electroliers along Watsonville's main street. The bridge is slightly above the site of the old wooden structure, and directly in line with the principal treet in Watsonville of which it is really a part.

That the construction of the jetties and brush mattressing protecting the bank of the Salinas River near King City above the site of the proposed new $80,000 bridge is nearly completed, is the statement of Lou G. Hare, who has the contract for this work. Within a week or ten days it is expected to have the work finished, only the concrete work now remaining. This job, entailing about a mile of protection, is costing about $20,000, one-third of which will be paid by the Spreckels Sugar Company for its land along the river and two-thirds by Monterey County for bridge protection.

Riverside Highway Report Shows Progress on County's System of Roads.

The second semi-annual Report of the Riverside County Highway Commission, prepared by Chief Engineer Geo. M. Pearson, and filed with the Supervisors, includes in complete detail the work which has been done on the county highways to October 31, 1915, and the expenditures and receipts from and to the highway fund.

Out of the total mileage of 273.8 miles to be improved under the highway bond issue, 113.8 miles have been completed and accepted and a total of 86.48 miles is now under contract. A total of 50.93 miles of concrete pavement has been laid, the standard type being concrete pavement 16 feet in width and 4 inches in thickness, surfaced with oil and screenings. Work is already under way in oiling the concrete highways which have been constructed, the commission cleaning the surface and spreading the screenings on the oil by day labor.

Out of the total highway improvement fund of $1,198,525.82, resulting from the sale of bonds, premium, interest, donations and incidental sales, $537,216.53 has already been expended, leaving an unexpended balance of $661,309.29 on October 31.

Expenditures.

The following expenditures have been made:

Auditor's transfer.....		$ 8,145.95
Salaries		11,719.10
Office supplies		1,908.56
Telephone and Telegrams...		645.98
Printing		747.92
Furniture and fixtures.....		277.57
Rent		1,146.94
Blue printing		109.91
Surveying instruments		1,317.05
Surveying supplies		1,260.20
Auto No. 1 (Cadillac)—		
Cost	$2,125.00	
Running expense..	831.52	2,956.52
Auto No. 2. (Ford T.)—		
Cost	615.00	
Running expense	531.65	1,146.65
Auto No. 3. (Roadster)—		
Cost	502.00	
Running expense..	466.14	968.14
Oiling (Sweeper)		33.56
Expense commission		315.40
Miscellaneous		120.01
		$33,425.81
Total for roads		$503,790.72
Total expenditures		$537,216.53

Contracts.

Contracts Nos. 1 and 2 were for cement and rock and sand. A total of 73,400 barrels of cement has been used, at a net cost of $1.34; 70,825 tons of gravel, at 30 cents and 40,060 tons of sand at 5 cents.

Contract No. 3—Box Springs to Perris, 9.46 miles, concrete. Conners Constructing Company. Completed and accepted.

Contract No. 4—Hemet-San Jacinto, 2.25 miles. Star Cement Company, concrete. Accepted.

Contract No. 5—Corona to S. B. County line, 3.85 miles, concrete. Oscar Ford. Accepted.

Contract No. 6—Banning-Beaumont, 3 miles, concrete. Conner Contracting Company. Accepted.

Contract No. 7 — Banning-Palm Springs, total length 22.4 miles. To Whitewater ranch graded, drained, oiled and sanded; Whitewater to Palm Springs paved with 4-inch macadam. B. R. Davisson Construction Company. Completed.

Contract No. 8—Elsinore to Murrieta, 8.85 miles, concrete. Conner Contracting Company, all complete except shoulders.

Contract No. 9—Perris to Hemet, 11.8 miles, concrete. James H. Montgomery Construction Company. Completed.

Contract No. 10—Portion of route Temecula to S. D. County line, (grading), 3 miles. J. S. Hilend. Accepted.

Contract No. 11—Portion of road Mecca to Blythe, 83 miles, grading. Rock gravel improvement over sand dunes and washes. Accepted.

Contract No. 12—Road oil, National Roadamite Paving & Supply Company.

Contract No. 13—Alessandro boulevard to Moreno Hills, 10.5 miles, concrete. C. L. Hyde Construction Company. Under way.

Contract No. 14—Murrieta to foot of Temecula grade, 8.67 miles, concrete. Conner Contracting Company. Nearly finished.

Contract No. 15—Bridge over Warm Creek. Munoz & Munoz. Finished.

Contract No. 16—Magnolia avenue and Corona to Scully ranch, 6.71 miles, concrete. Isbell Construction Company. Under way.

Contract No. 17—Iowa avenue and Rialto road, 3.57 miles, concrete. Brashear-Burns Company. Under way.

Contract No. 18—With C. C. Harris to heat and apply road oil over entire mileage of concrete highway.

Contract No. 19—Perris to Elsinore, 9.29 miles, concrete. C. L. Hyde Construction Company. Under way.

Contract No. 20—Beaumont to Moreno, through Moreno Hills, 8.96 miles, pany. Under way.

Contracts Nos. 21 and 22—Palm Springs to Indio, 24 miles, first 13 of graded road, last 11 concrete. (Awarded to Davisson Construction Company, November 10.)

WATSONVILLE SETS SPLENDID RECORD IN 1915.

By Mayor W. A. Trafton.

The city of Watsonville, during the year of 1915 has done much to maintain its reputation as one of the most progressive and up to date cities in central California. In fact, 1915 may be said to be a "Red Letter" year in the history of our city.

The attitude of the public towards its city government has much to do with the practical growth and improvement of that city. When the public becomes sympathetic with real constructive policies, when it supports and applauds the presentation of new ideas and new undertakings, when it encourages a big and aggressive public or municipal ambition in exactly the same way that it encourages a worthy personal ambition—it is then that the co-operative labors of city government and people are bound to produce splendid results.

It may be safely said that a broad spirit of co-operation has manifested itself between the public of Watsonville and the city officials, and it is with much gratification that I can say that the public has most liberally supported every move for the betterment, upbuilding and growth of the city as proposed by the city administration. In this way the governmental policy has been adjusted to produce a great measure of advantage attendant with the minimum of inconvenience, and this spirit of co-operation between public and officials had much to do with enabling us to take one of the most extensive steps forward in municipal advancement within the history of the city. I will briefly mention some of the most notable public achievements of the year.

For several years past the city of Watsonville has put forth a great deal of effort to keep in touch with the latest and most approved methods of street building, with the idea in view of giving the people the very best streets possible for the money invested. It has taxed to the utmost the inventive genius of the leading engineers and road builders of the country to produce a street or road that would successfully meet the new conditions brought about by the advent of the auto and even today roadbuilding may be said to be yet passing through its experimental stages. But that the efforts of the officials of the city of Watsonville to keep pace with the newest developments in this line have met with at least some degree of success is evidenced by the fact that the oil-macadam streets of the city of Watsonville are looked upon by engineers as models and are as near a permanent street as it is possible to construct with the money invested.

Under this oil-macadam system, we expended this year over $20,000 for additional new street work, putting us in the enviable position of where we can now boast of many miles of improved streets. In addition, ten blocks of streets and alleys were improved temporarily by covering with a coating of waste rock.

Realizing that a reduction of the fire hazard worked to the advantage of the entire community, extensive improvements were made in the city's fire fighting equipment during the year. These consisted of the addition of a triple combination auto pumping engine, hose cart and chemical engine; 150 feet of new hose; and a telegraph fire alarm system to facilitate the turning in of alarms. The latter is a modern system similar to that used by the Panama-Pacific International Exposition Company on the exposition grounds and is of sufficient box capacity to meet the needs of the city for many years to come. In fact, the entire equipment is ample to meet any emergency while the city is at its present size and population, and the fire department has recently been reorganized to meet the new conditions. As a result of these additions and improvements representatives of the Board of Fire Underwriters are here re-writing the city for the purpose of giving us a reduction in insurance rates in keeping with improved alarm system and fire fighting equipment.

Standing out prominently among the achievements of the year is the construction of a new concrete bridge across the Pajaro River at the foot of Main street, jointly by the city of Watsonville and the county of Monterey at a cost of approximately $45,000. This cost includes extensive fills necessary for the approaches; concrete retaining walls to hold the fills in place; sidewalks and finished streets on the approaches. This bridge which is now almost complete is one of the handsomest structures to be found in California. In its construction, beauty and efficiency have been the dominating idea of the architects and the finished

structure should be the source of great pride to the people of the Pajaro Valley. It is conceded, however, that many thousand dollars were saved the taxpayers by letting this contract at a time when we were enabled to secure the benefit of a low figure on structural steel and other material, as well as securing keen competition among bidders for the same reason.

Steps have been taken to improve the children's play ground. A concrete retaining wall has been constructed, much filling has been done, and park benches have been ordered. All work done so far being of a permanent nature. The Civic Section of the Woman's Club has taken a keen interest in this project and has plans for a further improvement of the play ground during the coming year.

The Board of Aldermen has adopted plans for a storm sewer system to be constructed during the coming year, which will take care of the storm water problem that has assumed an unbearable aspect by reason of the extensive system of improved streets draining the flood waters off during a storm. The board has deemed it advisable to forego further street work next year, if necessary, to accomplish this storm sewer system.

While I have mentioned some of the accomplishments of the city for the past year, I will now take the liberty to call attention to the crying need of the city of Watsonville—a new city hall. As the city has passed from the "small town" stage into the class of a growing, prosperous and progressive city, it is found necessary to house the executive, legislative and administrative offices of the government as well as the fire department in one building, and the quarters have on several occasions been found inadequate. I hope the people will bear this matter in mind and give favorable consideration to the proposition when the administration places it before them.

In closing let me say that the goal of the city government, and the goal of the citizenship are identical. The government's aim is to produce a city that offers the best opportunity for personal happiness and business success. It is the personal happiness and business success that every normal citizen is seeking. That is why the two should get together and pull together. Team work will carry both to the same goal.

California Leads in Road Building.

With a total expenditure of $14,670,614, from all sources California spent the second largest amount of money in road construction of any State in the United States, and, according to a compilation of figures by the San Francisco Chamber of Commerce, the city and State authorities, issued recently, California now leads every State in the United States in mileage of good roads.

This has proven profitable, in that several of the larger automobile concerns of the East have established branch houses in territory adjacent to San Francisco and still further extensions are contemplated. According to plans which are now under consideration by the State legislature a sum almost double the foregoing amount will be spent during the year 1916.

The Empire State (New York) leads the States of the United States in the amount of money expended on road work during the year 1914, the aggregate being $29,890,472. Of this amount there was only $15,000,000 available for the continuation of the work in 1915.

In California road construction, according to statistics compiled by the Department of Agriculture, the work of the last year has been but a forerunner of what must, perforce, be finished in 1916. Construction on a highway that will connect San Diego and the northernmost points of the State is well under way and it is expected will be finished by the latter part of 1916.

San Francisco, in all plans compiled by the State for the forthcoming year is the terminus of all road construction. In several instances the State program includes a number of branch lines that are now covered by railroads. It is believed that this road construction is contemplated to allow motor trucks the right of competition with railways.

That it will only be a matter of a few years until all of the roads of the United States will be surfaced and ready for automobile traffic of all kinds is evinced by the statement that on the first of December last year there was a total in excess of 2,500,000 miles of public roads in all of the States and of this amount there is more than 10 per cent surfaced, by both State and Government, in order to allow the free passage of automobiles at all seasons of the year.

According to figures compiled by the California Development Board and the Chamber of Commerce there is at the present time, in all of the States with the exception of Indiana, Mississippi, South Carolina and Texas laws providing for State aid in road work and in these States such laws are under consideration in the forthcoming sessions of the State legislature.

That the nex five years will see a great network of State and Government roads, suitable for the passage of automobiles for all purposes is shown by the fact that thirty-eight States made available $54,884,007 for road construction work in 1915 and that the amount has been almost doubled for 1916. The advent of a system of good roads throughout the United States is viewed with a great deal of alarm by railroad officials as it is believed that eventually, these roads will make possible the transportation of freight via the auto route that heretofore has proven a great source of revenue to the railroad companies.

Sewer Work; Over $43,000 in Permanent Streets.

Street and sewer improvements in Bakersfield during 1915 amounted to $73,607.83, of which $43,003.12 Was expended in permanent street work, including grading, oiling and paving, and $30,604.71 was for sewer construction. This did not include the sewer work done on the Myrtle street sewer, the cost amounting to $3,783.94, being deducted from the final payment to the contractor, T. J. Shea, who failed to complete the work according to specifications.

Asphalt Paving.

20th St., from G to Chester Ave., 3 blocks	$ 5,710.87
Alley south of 19th St., G to M, 6 blocks	5,761.84
Alley south of 18th St., K to L, 1 block	1,094.80

Grading and Oiling.

Eighth St., H to P, 8 blocks	13,579.00
M St., California to Truxton Ave., 5 blocks	4,749.38
N St., 20to 25th, 5 blocks	7,961.25
25th St., N to P, 2 blocks	2,410.10
O St., 25th to 26th, 2 blocks	1,735.88
Total St. work, 32 blocks	$43,003.12

Sewers.

Dist. No. 20, E. of Union Ave., 9,580 ft. pipe	$ 6,217.03
Dist. No. 21, W. of Union Ave., 9,779 ft pipe	6,138.34
Dist. No. 16, bet. L and O Sts., 20th and 26th Sts, 4,270 ft. pipe	3,545.38
Dist. No. 22, E. Baker, N. of Oregon, 7,929 ft. pipe	5,411.51
Dist. No. 23, W. of Baker, N. of Niles, 4,800 ft. pipe	2,722.13
Dist. No. 25, W. of Tulare, N. of Kentucky, 5,540 ft. pipe.	3,638.50
Dist. No. 26, bet. Baker and Gage, Truxtun and Sumner, 2,232 ft. pipe	1,441.94
Dist. No. 27, bet. King and Gage, Niles and Oregon, 1,320 ft. pipe	885.71
Dist. No. 28, bet. Beale and Gage, Lake and Monterey, 898 ft. pipe	604.17
Total sewer work, 46,355 ft.	$30,604.71
Total cost St. & sewer work.	$73,607.83

In addition to the above work, the repair or virtual reconstruction, of the Myrtle street sewer has been done at a cost of $3,783.84. This line extends from Palm street to Twenty-fourth street, a distance of 7,310 feet.

Beale Park has been improved by the construction of a wading pool substantially made of reinforced concrete, and shaded by a pergola. The cost of the wading pool and pergola was $369.04.

A new pumping plant has been installed for the water supply of the Park. The swimming pool is supplied through a 5-inch pipe, by a low-pressure pump of large capacity. This pump delivers 180 gallons of water per minute. The sprinklers are supplied through a 4-inch pipe, by a high-pressure pump. This pump delivers over 60 gallons per minute, at a pressure of 32 pounds. This is sufficient to operate a dozen sprinklers to their full capacity at one time. The piping is so arranged that the wading pool and swimming plunge can be filled by either pump.

The cost of this plant, consisting of the well, pump house, pumps, motor and pipes, was $1,693.97.

Mr. City Official:

A proposal ad in the **"Building and Engineering News"** will bring you inquiries and real competition on your public work; that's what you want!

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

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CALIFORNIA FIRST IN 1915 GOLD OUTPUT.

California retained first rank in the production of gold in 1915, with an output of about $23,000,000, and was followed by Colorado, with over $22,000,000; Alaska, with nearly $17,000,000; Nevada, with nearly $12,000,000; South Dakota, with over $7,000,000; Montana, with nearly $5,000,000; Arizona, with over $4,000,000; Utah, with over $3,500,000; Oregon, with nearly $2,000,000; New Mexico, with nearly $1,500,000; and Idaho and the Philippines with about $1,200,000 each.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $30,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Location, south Broadway 313 west Webster, covering an area of 33 feet 9 inches by 100 feet. Will contain six apartments of five rooms and bath besides servants' rooms. Interiors finished in white enamel and mahogany. Hardwood floors. Bath rooms tile. Steam heat, oil buring system and hot water supply. Dumb waiters. Ornamental plaster and imported tapestries. Marble and tile in lobby. Exterior faced with veneer pressed brick trimmed with marble. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 7 story and base, steel and reinforced concrete, $80,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, F. C. Finkle. Location, northwest corner Pine and Stockton streets. Will contain 42 apartments of two, three and four rooms besides large lobby, dance floor and conservatory, interior finish pine and mahogany and white enamel. Hardwood floors. Marble and tile wainscot, ornamental plaster. Bath rooms tile. Steam heat, elevator service, dumb waiters, hot water supply, vacuum cleaning and oil burning equipment. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be called for within a week.

SAN FRANCISCO—Apartment house, 6 story and base, steel and brick, $65,000. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, Meyer Wood. Location, southeast corner of Sutter and Leavenworth, covering an area of 62½ by 79 feet. Will contain thirty-six apartments of two, three and four rooms. Interiors finished in pine and hardwood. Hardwood floors. Wall beds. Bath rooms tile. Steam heat, automatic elevator, dumb waiters, hot water system and oil burning equipment. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 6 story and base, brick and steel, $55,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Theo. E. Bulfs. Location, southeast corner of Sutter and Jones streets, covering an area of 55 by 68 feet. Will contain five stores on first floor and thirty apartments of two, three and four rooms on the upper floors. Interior finished in pine and hardwood. Hardwood floors, wall beds. Bath rooms tile. Automatic elevator, steam heat, hot water system and vacuum cleaning. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be called for within a week.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $17,000. Architects, Smith & Stewart, 241 Kearny street, S. F. Owner's name withheld. Location, Broadway near Van Ness avenue. Will contain six apartments of four rooms and bath. Interior finish pine and mahogany. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Exterior covered with cement plaster pressed brick veneer. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $9,000. Architect, J. A. Porporato, 519 Washington street, S. F. Owner, Rosa Croce, 658 Green street, S. F. Location west Powell north of Clay, covering an area of 26 by 60 feet. Will contain five suites of three rooms and bath. Interiors finished in pine throughout. Some hardwood floors. Hot water system. Wall beds. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architects, Rousseau & Rousseau, 110 Sutter street, San Francisco. Owner's name withheld. Location, southwest corner San Jose avenue and 24th street. Will contain twelve suites of three and four rooms with bath. Interior finish pine with some hardwood floors. Steam heat and hot water system. Wall beds. Bath room floors magnesite. Exterior covered with cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 3 story and base, frame, $18,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Mrs. Broderick. Location, Miles avenue near College. Will contain two, three and four room suites with baths. Interior finish pine and hardwood with hardwood floors. Steam heat and hot water system. Bath rooms tile. Wall beds. Marble and tile entrance. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 3 story and base, frame. Cost not stated. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, Noble Newsom. Location, 10th and Oak streets. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine and elm panels. Some hardwood floors. Steam heat and a hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with cement plaster. Plans being revised.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 4 story and base, brick, $75,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, Telegraph avenue and Haste street, covering an area of 95 by 130 feet. Will contain five stores on the first floor beside the lobby and entrance and 125 rooms on the upper floors. Apartments arranged in suites of two, three and four rooms with pri-

vate baths and wall beds. Interiors finished in pine and hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, automatic elevator and hot water supply. Bath rooms tile. Marble and tile wainscot and patent store fronts. Exterior faced with pressed brick. Plans being prepared.

OAKLAND, CAL.—Apartment house and stores, 4 story and base, brick, $70,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, 24th and Telegraph avenue. Will contain stores on first floor besides the entrance and lobby. Upper floors arranged for two, three and four room apartments. Interior finished in pine and hardwood. Hardwood floors. Steam heat, automatic elevator, dumb waiters, oil burning plant, hot water system and vacuum cleaning. Bath rooms tile. Wall beds. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and owners to take subfigures this week.

MODESTO, STANISLAUS CO., CAL.—Apartment house, 2 story and base, frame, $5,000. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner, D. Lacazoppi. Will contain four suites of three rooms and bath. Interior finish pine. Some hardwood floors. Wall beds. Hot water supply. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house and stores, 4 story and base, brick and steel, $40,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner, Robert Trost, 26th and Howard streets, S. F. Location, southeast corner 26th and Mission streets, covering an area of 90 by 100 feet. Will contain nine stores on the ground floor besides the entrance. Upper floors arranged for 42 apartments of two, three and four rooms. Interior finish pine and hardwood with some hardwood floors. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Wall beds. Patent store fronts and marble wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

Contracts Awarded.

SAN FRANCISCO—Apartment house, 4 story and base, brick, $40,000. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, E. J. Greenhood. Contractors, New Era Marble and Concrete Co., foundation work, $1,000; Otis Elevator Co., elevator, $1,625; Pacific Manufacturing Co., mill work, ——; Jack Barman, painting, $1,200; J. W. Asher Electric Co., electric work, $1,000, and Golden Gate Iron Works, structural steel, $2,300.

SEATTLE, WASH. — Apartment house, 3 story and base, brick, $30,000. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owner, Mrs. H. Schneider. Contractors, Albin & Huskamp, 1719 12th avenue, Seattle. Contract price, $30,000.

SAN FRANCISCO—Apartment house, 6 story and base, reinforced concrete, $44,750. Architects, Smith & Stewart, 244 Kearny street, S. F. Owners, Smith & Stewart, 244 Kearny street. Contractor, J. B. Reite, 110 Jessie street, S. F. Contract price, $44,750.

BONDS

STOCKTON, SAN JOAQUIN CO., CAL.—The directors of the South San Joaquin Irrigation District have sold $50,000 worth of irrigation bonds to the State at 83½ cents on the dollar. The proceeds of the sale will be used in making improvements in the district.

REDDING, SHASTA CO., CAL.—The State Bond Commission has approved the Anderson-Cottonwood Irrigation District's $480,000 bond issue. The directors have voted to offer the entire lot, bearing 6 per cent interest, for sale on February 4th. The Anderson Irrigation District is a big undertaking, involving the expenditure of nearly half a million dollars for the irrigation of 30,000 acres.

IMPERIAL, IMPERIAL CO., CAL.—Only a technicality is holding up the State Bond Commission's approval of the Imperial Irrigation District's $3,500,000 bond issue. The Commission has returned bonds and will approve them as soon as a single technical stipulation is made. The Commission has under consideration the $2,604,000 issue of Los Angeles Water District No. 3.

WINTERS, YOLO CO., CAL.—Bonds of $7,000 for the erection of a town hall have been sold by the Supervisors. The erection of the building will be ordered shortly.

SAN RAFAEL, MARIN CO., CAL.—At a recent meeting of the Chamber of Commerce, the canal committee recommended that a petition be circulated at once asking the City Council to call a special election for the purpose of revoting the $40,000 bond issue for improving the deep water channel, so as to cut out the restrictions and allow the Council to spend the money without waiting on the Federal Government to act.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Chas. Moss of Santa Barbara has purchased property on West De La Guerra street and will erect a modern apartment building on the site.

WOLTERS SCHOOL DISTRICT, FRESNO CO., CAL.—Bids will be received by the Wolters School District until January 21st for the purchase of $12,000 bonds, which were voted for the erection of a new school.

CHICO, BUTTE CO., CAL.—With the intention of erecting a cheese factory, J. M. Reardon, who owns a factory at Bieber, Lassen County, is in Chino looking over a number of sites.

LOS ANGELES, CAL.—The Supervisors have rejected the joint bid of the Security Trust and Savings Bank and the Los Angeles Trust and Savings Bank of par, accrued interest and a premium of $3,000 for the $2,604,000 of San Fernando Valley Irrigation 6 per cent bonds.

No further action will be taken until the State Banking Commision passes upon the bonds.

OAKDALE, STANISLAUS CO., CAL.—State Controller John S. Chambers has purchased $50,000 worth of 5 per cent bonds of the South San Joaquin Irrigation District.

PORTLAND, ORE.—Bonds of $200,000 for the purpose of building a jetty at the mouth of the Umpqua will be voted by the Port of Umpqua Commissioners, providing petitions now being circulated to get the consensus of opinion of the voters are favorable.

SAN MATEO, SAN MATEO CO., CAL.—San Mateo is planning to build an extensive amusement park near the beach, which will include many attractions taken from the Panama-Pacific Exposition. A large summer hotel will also be included in the improvements.

SALINAS, MONTEREY CO., CAL.—Torrence-Marshall Company, bond buyers, purchased $65,000 worth of Monterey highway bonds from the Supervisors last week. The proceeds of the sale will be used in highway improvements.

BAKERSFIELD, KERN CO., CAL.—Bids will be received by the Kern County Supervisors up to February 11th for the purchase of the Wasco high school bonds in the sum of $45,000. Proceeds of the sale will be used in the construction of a new school.

POMONA, LOS ANGELES CO., CAL.—All five bonding propositions voted here recently for improvements were defeated.

LONG BEACH, LOS ANGELES CO., CAL.—The Board of Education has decided to call a special election for the purpose of voting bonds for the erection of new school buildings. Both the high school and grammar schools are over crowded and the board has decided to erect two intermediate schools to relieve the situation. The buildings will probably cost about $250,000 and a bond issue will probably be for $300,000 to provide for seats and equipment.

TROPICO, LOS ANGELES CO., CAL.—The Board of Trustees has decided to call a special bond election to vote on the question of issuing and selling bonds of $75,000 for the construction of a water system.

CASA GRANDE, ARIZ.—An election will be held shortly for the purpose of voting on a $35,000 bond issue to raise funds for municipal improvements. City Engineer Sidney Mashbir has been instructed to draw plans for the work which will consist of a water-works, electric light plant and an ice plant, with one central power station supplying all three.

— RIVERDALE, FRESNO CO., CAL.—The $25,000 school bond issue in the Riverdale point high school district carried January 4. The funds will be used to construct a new modern high school building in Riverdale. A site has already been secured.

WHITTIER, LOS ANGELES CO., CAL.—A bond issue for the purpose of remodeling and improving the water system will probably be held shortly. The proposed expenditure will amount to about $110,000.

NORWALK, LOS ANGELES CO., CAL.—The $15,000 bonds for a water system voted over a year ago have been declared valid by the Supreme Court. After a few preliminaries are arranged the work will be commenced.

BANNING, RIVERSIDE CO., CAL.—The survey has been completed and work will probably start this spring to develop additional water for Banning, for which the sale of bonds in the amount of $80,000 seems assured. Representatives of an electric power company are figuring on the advisability of the water company installing its own electric power plant for lifting water from its wells and if the plan should not be adopted the Southern Sierras Company will probably run a

branch line from this city to the water canyon, under a long-term contract with the water company.

TUCSON, ARIZ. The W. H. Rosecrans Engineering Company of Chicago has been commissioned to prepare plans and to do the engineering work for the proposed Tucson-Ajo road toward which the advisory road commission has recommended the appropriation of $68,000, all that is available from the $300,000 bond issue. The remainder of the necessary funds will be raised by addition bond issues.

WATTS, LOS ANGELES CO., CAL.—The City Trustees are at present considering the advisability of calling an election for the purpose of raising $160,000 for the construction of a modern sewer system. According to the present plans the tanks will be built at the lowest point within the corporate limits, and pumps will be used to drive the sewage to them.

CHINO, SAN BERNARDINO CO., CAL.—The Board of Trustees has passed a resolution of intention to call a bond election for sewers in the sum of $55,000.

The Board has also passed resolutions to call an election to vote bonds of $79,000 for the improvement and construction of roads.

BATH HOUSES.

ALAMEDA, ALAMEDA CO., CAL.—Swimming tank, reinforced concrete. Cost not stated. Architect, Edward J. Symmes, Pacific Bldg., S. F. Owners, Surf Beach Amusement Co. The tank will be 75 by 300 feet with sides and bottom lined with glazed terra cotta. A large reinforced concrete bulkhead will also be constructed. The same architect has plans under way for a large amusement concession to be erected at Bay City, Los Angeles County, for a company headed by Frank Burt, Title Insurance Bldg., L. A. Bids are being taken for the work at Surf Beach.

SEATTLE, WASH. — Natatorium, 2 story and base, steel and reinforced concrete, $150,000. Architect, B. Marcus Pretica, Pantages Theatre Bldg., Seattle. Owner, C. D. Stimpson. Location, Second avenue and Lenora. Will contain large swimming pool, tub, shower and Turkish baths. Interior finish pine and tile. Cement floors. Terra cotta tile lining for tanks. Special mechanical equipment. Steam heat. Exterior faced with cement plaster. Plans complete and figures being taken for general construction. Figures for plumbing, heating and electric work to be taken later.

BRIDGES, DAMS AND HARBOR WORK

YUBA CITY, SUTTER CO., CAL.—Bridge, steel and reinforced concrete, $153,480 to $170,770. Engineers, County Surveyor L. M. Bunce, Yuba City, associated with Engineer Earle L. Cope, First National Bank Bldg., S. F. Owners, Sutter County. At the last meeting of the County Supervisors the engineers presented a report on the preliminary surveys for the proposed Nicolaus bridge. The report was ordered filed until the next meeting, when the matter of constructing the bridge will be taken up.

FOLSOM, SACRAMENTO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Sacramento. Owners, Sacramento County. Bids will be opened on January 28th at 2 p. m. for construction of a bridge across Figueroro street ravine.

STOCKTON, SAN JOAQUIN CO., CAL.—Bridge, steel and reinforced concrete. Cost not stated. Engineer, City Engineer Compton, Stockton. Owners, City of Stockton. Plans prepared by City Engineer Compton for a steel and concrete bridge over Mormon Channel at San Joaquin street were taken under advisement by the city officials at their last meeting. General Manager F. W. Webster of the Stockton Electric Railroad Co. was called into the discussion to determine what portion of the cost of the bridge should be borne by the railroad company. The bridge as planned would be 200 feet long and 70 feet wide, carried on reinforced concrete piers. The City Council is entirely in favor of its construction.

VENTURA, VENTURA CO., CAL.—Bridges, Steel and reinforced concrete. Cost not stated. Engineer, County Surveyor Petit, Ventura. Owners, Ventura County. Plans and specifications have been completed by County Surveyor Petit and have been presented to the Supervisors for the proposed Casitas bridge over the Ventura River. The plans call for a span for a steel bridge 200 feet long on the old piers, which are to be raised. It is estimated the structure will cost $9,000. La Crosse bridge plans, Sespe bridge plans and the plans for spans for the Saticoy bridge are already for action by the Supervisors, who will probably take up the matter of advertising for bids for all these structures at the present session. Further mention will be made of this work when the bids have been called.

SEATTLE, WASH.—Bridge, steel and reinforced concrete, $300,000. Engineer, Rapp, City Department of Engineering, Seattle. Owners, City of Seattle. Plans and specifications for the proposed steel bridge to be constructed over the Lake Washington canal at 10th avenue N. E., have been approved and bids will be called for in ten days. The structure will be of the double bascule type. It will have a clear span of 175 feet and a width of 44 feet, which provides for a double track roadway and two 6-foot sidewalks. There will be 1200 feet of temporary wooden approach. The concrete piers will cost $100,000 and the superstructure about $200,000. Further mention will be made of this work when bids have been called.

MERCED, MERCED CO., CAL. — Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor Cowell, Merced. Owners, Merced County. At the last meeting of the County Supervisors County Surveyor Cowell was instructed to prepare plans and specifications for a reinforced concrete bridge over the canal on the Cox Ferry road near Edenvale. Further mention will be made of this work when bids have been called.

LOS ANGELES, CAL.—Pile trestle bridge. Cost not stated. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. County Road Commissioner Joyner has recommended to the Board of Supervisors that all bids received for constructing a pile trestle bridge on Mountain avenue between School street and Burr avenue and on Palm avenue between Michigan avenue and Cross street be rejected and the work done by the county road department by force account.

Contracts Awarded.

MARIN SONOMA COUNTIES, CAL.—Bridge, steel, $94,460.32. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Healy-Tibbitts Co., 9 Main street, S. F. Contract price, $94,460.32.

MARTINEZ, CONTRA COSTA CO., CAL. Ferry slip repairs, $2,000. Engineer's name not given. Owners, Martinez-Benicia Ferry Co. Contractors, Hyde-Harjes Co., 110 Market street, San Francisco. Contract price, $2,000.

MERCED, MERCED CO., CAL. — Bridges, timber and concrete. Cost as follows. Engineer, County Surveyor, Merced. Owners, Merced County. Contractor West Side Construction Co., Los Banos bridge No. 11, District No. 4. W. H. McElroy, Merced, bridge No. 42, $1,653 and No. 43, $885.

MODESTO, STANISLAUS CO., CAL.—Bridges and siphons, reinforced concrete, $4,770.80. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Contractor, M. E. Fernandes, Modesto. Contract price, $4,770.80.

CHURCHES

BERKELEY, ALAMEDA CO., CAL.—Church, 1 story, frame, $2,500. Architect, none. Owners, Central Methodist Episcopal Church. Location, southeast California and Derby. Will contain small auditorium and Sunday school room. Interior finish pine. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

REDDING, SHASTA CO., CAL. — Church alteration, frame, $6,000. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Roman Catholic Church, Father Hayes. Work will consist of interior and exterior alterations. Art glass and marble and tile work. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Church, 2 story and base. Class A construction, $300,000. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, First Methodist Episcopal Church. Location, southwest corner 8th and Hope streets, covering an area of 195 by 157 feet. Complete steel frame, exterior walls of brick and concrete, faced with cement plaster and pressed brick. Interior finish pine, hardwood and ornamental plaster. Central heating system, vacuum cleaning and modern ventilation. Art glass windows. Plans to be completed within six weeks and figures called.

COURT HOUSES.

SAN RAFAEL, MARIN CO., CAL.—Court house addition, reinforced concrete. Cost not stated. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Preliminary plans are being prepared for a one story addition to house the sheriff's office, recorder and auditor. Construction will be fireproof. Interior finish hardwood and metal. Central heating system extended from present building.

Exterior faced with cement plaster. Further mention will be made when plans are complete.

Contracts Awarded.

SAN FRANCISCO—Hall of Justice, elevator alterations, $7,791. Architect, City Department of Architecture, Temporary City Hall. Owners, City and County of San Francisco. Contractor, William Newsom, concrete work, $7,-791. Otis Elevator Co., elevator, $3,490.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Laundry addition, 1 story, frame, $7,000. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner's name withheld. Location, 15th near Howard. Interior finish pine with cement floor. Special laundry machinery. Exterior shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Warehouse, 4 story and base, mill construction. Cost not stated. Architect, G. A. Applegarth, Claus Spreckles Bldg., S. F. Owner, Maria Cebrian, leased to General Electric Co. Location, south Bryant east of Second, covering an area of 126 by 160 feet. Will contain storage space, shipping rooms and receiving rooms. Elevator service, automatic sprinklers. Metal window sash and frames and fireproof doors. Exterior faced with stock brick. Plans complete and segregated figures taken. Contract to be awarded at once.

HANFORD, KINGS CO., CAL.—Distributing station, reinforced concrete, $17,000. Engineer, Engineering Dept. Union Oil Co., S. F. Owners. Union Oil Co. Within the next 15 days the Union Oil Company will commence the erection of tanks and buildings for their new distributing depot in this city. The improvement will be in charge of Frank Nevill of Fresno.

SEATTLE, WASH. — Compressor plant, 1 story and base, reinforced concrete, $30,000. Engineer, J. R. West, Port of Seattle Commission, Seattle. Owners, Port of Seattle Commission. Location, East Waterway, covering an area of 100 by 100 feet. Construction fireproof. Special machinery not included in estimated cost. Plans being prepared.

Contracts Awarded

MARTINEZ, CONTRA COSTA CO., CAL.—Pumping station additions and repairs. Cost not stated. Engineer's name not given. Owners, Associated Oil Co., S. F. Contractors, Lacey Mfg. Co., L. A. Contract price not stated.

LOS ANGELES, CAL. — Warehouse, 5 story and base, reinforced concrete, $400,000. Architects, Moores & Durford, Otis Bldg., Chicago, Ill. Owners, Panama-Pacific Warehouse Co. Contractors, Stone & Webster, Boston, Mass. Contract price, $400,000.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Fire house, 2 story and base. Class C construction $40,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Architect Reid has just been commissioned to prepare plans for the new fire station to be located on Pacific avenue between Polk and Van Ness. Details of construction are not available. Further mention will be made of the work. Bids will be taken by the Board of Public Works.

FIRE REPORT

DANVILLE, CONTRA COSTA CO., CAL. — Dwellings, business building, stores; damage, $35,000. Fire started in business section.

VISALIA, TULARE CO., CAL. — Rooming house; damage, $75,000. Owner unknown.

LOS ANGELES, CAL.—Moving picture plant at Inceville; damage, $250,-000. Owners, New York Motion Picture Corporation.

OAKLAND, CAL.—Salt works at Mt. Eden; damage, $125,000. Owners, Oliver Salt Works. Owners state that new plant will go under construction immediately.

RIVERSIDE, RIVERSIDE CO., CAL. —Factory; damage, $200,000. Owner, William F. Taubel.

SALINAS, MONTEREY CO., CAL.—Factory and store; damage, $10,000. Owner unknown.

FLATS

SAN FRANCISCO—Flats and store, 2 story and base, frame, $3,000. Architect, none. Owner, Valentine Fritz, 2022 Clement street, S. F. Location, south Geary west of 19th. Will contain a store and two modern flats of five rooms and bath. Interior finish pine with some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $2,000. Architect, none. Owner, N. M. Nelson, 917 Ingerson street, S. F. Location, west Hawes south of Ingerson. Will contain two small flats. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flat alteration, 2 story and base, frame, $15,000. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, Claus Schilling, 2210 Vallejo. Location, 2210 Vallejo. Work will consist of altering a large residence into three modern flats, and will include new interior partitions, trim, plastering, painting, plumbing and electric work. Exterior will be faced with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, Louis Mastropasqua, 580 Washington street, S. F. Owner, John Garibaldi. Location, 2814 Gough street. Will contain two modern flats of five and six rooms. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

GARAGES.

SAN FRANCISCO — Garage, 1 story and base. Class C construction. Cost not stated. Engineer, Pierre Zucco, 166 Geary street, S. F. Owner, Charles P. Kern. Location, Valencia between 18th and 19th streets. Designed for a commercial garage and will accommodate about 80 machines. Interior finish rough. Cement floors. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

Progress on Pier 7, Cristobal.

The north half of the floor for pier No. 7 at Cristobal, C. Z., the lengthwise axis of which lies approximately east and west, was completed on Wednesday, December 15. Up to that time a total of 8,691 cubic yards of concrete had been placed in the floor, or about 53 per cent of the total required for it. The riveting of the steel work for the floor was begun on November 23; it is expected that all of the concrete for the floor will have been completed early in February. The placing of the concrete has advanced steadily. All of it is mixed and placed by means of one portable plant, using a ½-yard mixer. Since the beginning of the floor construction, in which is included the more difficult and tedious work on the triangular outer end of the pier, the average daily placement has been 172 cubic yards. In the 6-day period from December 9 to 15 the average placement was 233.4 cubic yards per 8-hour day. The high run in this period was 286 cubic yards in eight hours.

To date the structural steel received for the superstructure of the pier has amounted to 1,379,801 pounds, of which 1,285,721 pounds were in a single shipment, on the J. L. Luckenbach, arriving in November. Of the total quantity required, 2,177 tons, 690 tons have arrived and about 700 tons were reported shipped from New York on December 19. It is expected that erection of the steel for the pier shed will begin about January 1. The contract for the steel doors for the pier shed calls for their erection to begin by February 14, 1916, and to be finished by April 14. It is expected that the pier will be completed by June 1.

In the manufacture of cement tile roofing, which was begun November 8 at Cristobal, under a contract made with the American Cement Tile Manufacturing Company, about 55 per cent of the roofing for the pier was finished.

Reclamation Work.

The Reclamation Service is asking for proposals for the construction of canals and structures on the Flathead irrigation project, Mont., involving about 4,000 cubic yards of excavation, 300 cubic yards of reinforced concrete, 900 square yards of paving, laying 1,300 linear feet of vitrified pipe, erecting 16,000 feet b. m., of lumber, and the placing of 35,000 pounds of structural and reinforcing steel. The work is located from two to eight miles northeast of Arlee, Mont., on the Northern Pacific Railway. The bids will be opened at the office of the U. S. Reclamation Service at St. Ignatius, Mont., February 8.

Castings, Etc., for Canal Dock.

The purchasing officer for the Panama Canal will soon call for bids for

furnishing all necessary castings, bolts, and fittings for block system for dry dock No. 1. The specifications and drawings show the function of each part, and all parts are to be given a workmanlike finish consistent with the service required. The pull links, pawls and pawl pins, pawl blocks, shackles and shackle pine are working parts, in that during operation there is some relative movement. The items below are arranged in accordance with their location in the work; when grouped in accordance with every physical characteristic the following classification results, which is given bidders in estimating the total amounts involved:

Cast iron, 680,000 lbs.
Bolts and lag screws, 114,400 lbs.
Chains and shackles, 48,300 lbs.
Bars and straps, 11,200 lbs.
Cast steel, 4,200 lbs.
Other items, 49,000 lbs.

The Panama Canal does not accept any responsibility for the correctness of these weights. The drawings will indicate what parts are required to be galvanized. Other details and particulars may be obtained from the specifications and drawings.

Medford, Ore., Furniture.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for installing furniture in the U. S. public building at Medford, Ore.:

McGuire Cabinet Co., Los Angeles, Cal., $1,494.52.

The Nelson Co., Brooklyn, N. Y., $1,551.

Louck & Hill Co., Richmond, Ind., $1,614.98.

The Federal Equipment Co., Carlisle, Pa., $1,623.

Jacob Beitzel & Sons, York, Pa., $1,698.

Furnas Office and Bank Furniture Co., Indianapolis, Ind., $1,791.05.

John E. Sjostrom Co., Philadelphia, Pa., $1,733.

Plans to Award Philippine Sugar Mill Contract.

Announcement is made by the government of the Philippines that the British firm which was successful in bidding on the erection of the new $1,000,000 sugar central to be erected by the government for a milling company in Isabela Province, in line with the policy adopted some time ago of government aid for such institutions, has been unable to sign a definite contract for the construction of the mill in time for the grinding season of 1916-17, on account of the fact that the British government may require the use of the factories in Great Britain on which the bidder relied for the machinery and supplies for the central. It is explained that while it is unlikely that these factories will actually be required by the government of Great Britain, the latter has already commandeered materials which were to be used for the machinery for the Philippine concern, and the possibility of interference is such that the company can definitely agree to finish the work in the islands by the required time.

It was also found impossible, or at least impracticable, to secure insurance to cover the possibility of loss in case the British concern failed to finish the central on contract time. Since the commencement of the central in Isabela by the British concern under the circumstances would at best place the whole enterprise in danger of being tied up indefinitely, the negotiations were abandoned. Bids will be called for later for the erection of the plant in time for the 1917-18 grinding season. The mill must be finished by December, 1917, if it is to be ready for the 1917-18 sugar crop.

Similar Situation All Over the Far East.

The state of affairs brought out in connection with this very important enterprise in the Philippines characterizes the situation all over the Far East. Quotations are being made by European firms for goods of many sorts which they can only agree to supply subject to war risks and the interference of the government with their plans. This has been particularly true in machinery trades and in the trade in iron and steel and similar products.

Under the circumstances, American concerns have an advantage in the trade, which is quite apparent as regards deliveries and the ability to actually produce goods contracted for; but it is evident that under the policy followed by firms of belligerent connections the operations of American concerns in such matters are not without competition, or at least without opposition.

Business Conditions—Share of Neutral Countries in Trade.

Unfortunately, business conditions generally and financial conditions in particular are such as to encourage the postponement of nearly all lines of industrial improvement, the erection of factories, the equipment of industrial plants with new machinery, and the general advancement of the country in industrial and mechanical lines.

Other neutral countries, as well as the United States, are coming to have an increased share of the trade in all such lines, especially in machinery, including marine and other motors, dynamos, accumulators, and all kinds of electrical machinery and appliances. In practically all lines American manufacturers have the advantage, however, and, while present business is not very brisk, the concern with established connections will undoubtedly have the trade immediately following the close of the war.

Prospective Bidders.

Specifications for work under the office of the supervising architect have been furnished the following firms:

Ellensburg, Wash., Construction, January 27.

Olson & Johnson Co., Missoula, Mont.

J. H. Wiese, City National Bank Building, Omaha, Neb.

Charles H. Schaar, 721 Twenty-first avenue, Seattle, Wash.

J. B. Sweatt & Co., Rookery Building, Spokane, Wash.

Stebinger Bros., 626 Broadway street terrace, Portland, Ore.

Sound Construction Co., Lowman Building, Seattle, Wash.

Pearson Construction Co., 753 New York Block, Seattle, Wash.

Eckman & Mowatt, 616 Mutual Life Building, Seattle, Wash.

Welch Bros. & Hannaman, 359 Santa Clara avenue, Oakland, Cal.

William H. Maxwell, Lakeside, Wash.

Alloway & Georg, Old National Bank Building, Spokane, Wash.

John Wallin, 850 S. 5th street, Tacoma, Wash.

Harry A. Cotton Co., Railroad avenue, between Oak and Laurel streets, Port Angeles, Wash.

Hans Pederson, 1504 Alaska Building, Seattle, Wash.

Cavite, P. I., Buildings.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing five buildings at the naval radio station, Cavite, P. I.:

Item 1, work complete, in accordance with the drawings and specifications for all buildings, the contract being awarded to one bidder; item 2, net price for the work complete, in accordance with the drawings and specifications, for all buildings, except the married operators' quarters; 3, amount to be added to item 1 or item 2 if the interior faces of all exterior walls of operating building be furred, lathed, and plastered. Lath shall be an approved wood, sound, free from knots and bark, spaced ¼ to ⅜ inch apart, securely nailed, with joints broken every tenth course. Plastering shall be as specified in paragraphs 62 to 67, inclusive.

J. F. Tillman Co., Portland, Ore., item 1, $141,750; 2, $123,640; 3, $500.

Construction & Engineering Co., San Francisco, Cal., item 1, $54,000; 2, $42,800; 3, $200.

Coast Survey, Sale of Vessel.

The following bids were received by the superinteendent, Coast and Geodetic Survey, Washington, D. C., December 30 for the purchase of the Coast Survey steamer Gedney:

Neider & Marcus, Seattle, Wash., $1888.88.

Panama-Pacific Commercial Co., Seattle, Wash., $3,100.

Frank Schwartz, Seattle, Wash., $1,135.

Crowley Launch & Tug Boat Co., San Francisco, Cal., $1,555.55.

Charles Goldman, San Francisco, Cal., $755.

S. C. Barrington, Seattle, Wash., $1,250.

Coast Survey, Sale of Vessel.

The following bids were received by the superintendent, Coast and Geodetic Survey, Washington, D. C., December 30 for the purchase of the Coast Survey steamer McArthur:

Neider & Marcus, Seattle, Wash., $1883.88.

Blomskog Investment Co., Seattle, Wash., $3,150.

Frank Schwartz, Seattle, Wash., $1,550.

Charles Golden, San Francisco, Cal., $755.

HALLS AND SOCIETY BUILDINGS.

Contracts Awarded.

SAN DIEGO, SAN DIEGO CO., CAL.—Club house, 3 story and base. Class C construction, $26,000. Architect, Will Sterling Hebbard and Carlton M. Winslow, San Diego. Owners, University Club. Contractors, F. O. Engstrom Co., 5th and Seaton streets, L. A. Contract price, $26,000, exclusive of plumbing and heating.

HOSPITALS

SAN FRANCISCO—Hospital, 4 story and base. Class A construction. Cost as follows. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. A complete list of the figures opened for the various parts of this work will be found under the heading of San Francisco in this issue. Following are the low men: Furring, lath and plastering, Joseph Kaiser, 125 Highland avenue, $40,045, $40,430, $40,237. Carpentry work, McLeran & Peterson, Sharon Bldg., $48,300, $46,300, $51,000. Brick work, Arthur Arlett, 251 Post street, $50,120. Architectural terra cotta, one bid only, Gladding-McBean, Crocker Bldg., $23,900. Roofing and sheet metal work, United States Metal Products Co., Rialto Bldg., proposition 1, $14,353. Robert Dalziel, 218 1st street, proposition 2, $19,000. Ornamental Iron work, Monarch Iron Works, 1161 Howard street, $10,624. Tiling, G. McElhinney, 1391 Howard, $21,698 for 75 days, and the Scott Co., 243 Minna, $21,699 for 50 days. Marble work, Mission Marble Works, 363 Guerrero, $5,200. Painting, D. Zelinsky, 564 Eddy, $14,860, $16,890. Glass and glazing, California Plate and Window Glass Co., 864 Mission street, $4,640. Composition flooring, Mallott & Peterson, Monadnock Bldg., $1,800. Lighting fixtures, Thomas Day Co., 725 Mission, $4,300.

SAN FRANCISCO—Hospital addition, 5 story and base. Class A construction, $300,000. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Location, Clay street near Webster. Plans have been completed and approved for the construction of a wing to the Lane Hospital, which will give that institution an addition of more than 200 beds. Complete steel frame, brick walls, faced with pressed brick. Interior finish pine and hardwood with marble and white enamel. Steam heat from central plant.

SACRAMENTO, CAL.—Nurses' home, 2 story and base, reinforced concrete, $40,000. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Plans for the first unit of a group of bulidings to be erected at a cost of $400,000 have been completed and are now out for figures. Bids will be opened on February 17th. Plans can be secured from the architect.

LOS ANGELES, CAL.—Free clinic, 1 and 2 story and base. Class C construction. Cost not stated. Architect, Arthur B. Benton, 114 North Spring street, L. A. Owner, O. T. Johnson for Parent Teachers' Association. Location, Castelar street, covering an area of 50 by 120 feet. Will contain offices, operating rooms, waiting rooms and dispensary. Interior finish pine and hardwood. Reinforced concrete walls and roof slabs. Steam heat and hot water supply. Exterior faced with cement plaster. Plans being prepared.

HOTELS

STOCKTON, SAN JOAQUIN CO., CAL.—Hotel, 3 story and base, brick, $20,000. Architect, F. Warner, San Joaquin Bldg., Stockton. Owner, Mrs. Flanagan, 129 East Magnolia street, Stockton. Location, east El Dorado between Lafayette and Washington streets. Will contain stores on the first floor and modern hotel rooms above. Interior finish pine. Steam heat and hot water system. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Hotel addition, 3 story and base, reinforced concrete, $100,000. Architect, Arthur B. Benton, 114 North Spring street, L. A. Owners, The Arlington Hotel Co. The new addition will be in the form of a wing to the present structure and will be of fireproof construction, containing 100 rooms and baths. Interior finish pine and hardwood. Steam heating system extended from present power plant. Exterior faced with cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Hotel and stores, 3 story and base, brick. Cost not stated. Architect, Richard D. King, Van Nuys Bldg., L. A. Owner, J. A. Hill. Location, Figueroa between 2nd and 3rd streets, covering an area of 150 by 175 with one story garage in rear. Will contain nine stores and 50 rooms and baths. Interior finish pine. Steam heat, hot water system. Bath rooms composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work by Day Labor. Excavation started.

IRRIGATION PROJECTS

SANTA ROSA, SONOMA CO., CAL.—Reclamation work, $55,000. Engineer, J. E. Williams, Santa Rosa. Owners, Wilfred and Cotati Reclamation Districts. Plans and estimates of cost for draining some thing like 12,000 to 14,000 acres of low land in the Wilfred and Cotati Districts were considered by the committees having the project under consideration at a meeting held recently in Santa Rosa. The plans call for approximately 17 miles of main ditches, averaging from 5 to 10 feet deep and from 10 to 18 feet wide on the bottom. It is estimated that the cost will be less than $3.50 per acre. Further mention will be made of this work when action is taken on the plans as presented.

STOCKTON, SAN JOAQUIN CO., CAL.—Irrigation reservoir, $168,000. Engineer, A. Griffin, Stockton. Owners, South San Joaquin Irrigation District. The directors of the South San Joaquin Irrigation District have, on the recommendation of the chief engineer of the district, rejected all bids received for the construction of the reservoir dam with the exception of that of the Keystone Construction Co. of Portland, Ore., who submitted the lowest bid at $168,000, which is slightly above the engineer's estimate. It is thought that this company will be awarded the contract.

OAKDALE, STANISLAUS CO., CAL.—Reservoir. Cost not stated. Engineer, Chief Engineer, Oakdale. Owners, Oakdale Irrigation District. Bids opened by the Oakdale Irrigation District for the construction of a large reservoir show the Keystone Logging and Construction Co. low. The bids were laid over until the next meeting. Further mention will be made of this work when the contract is awarded.

CHICO, BUTTE CO., CAL.—Irrigation District. Cost not stated. Engineer's name not given. Owners, Paradis Irrigation District. The plans of the Paradis Irrigation District in Butte County have received the approval of the State Engineer, and the election for the formation of the district has been set for March 3rd by the County Supervisors.

Contracts Awarded.

COLUSA, COLUSA CO., CAL.—Irrigation ditch and laterals and pumps. Cost not stated. Engineer's name not given. Owners, Cheney Slough Irrigation District. Contractors, Baber & Son, excavation of main canal, 2½ miles. Contract price, 11c per cubic yard. Charles Rouke, laterals and ditches, 12½c and 13½c per cubic yard. Byron Jackson Co., 357 Market street, S. F., 1 36-inch and 1 26-inch pump and 1 300 and 1 150 H. P. motor. Contract price not stated.

LIBRARIES

BERKELEY, ALAMEDA CO., CAL.—Library construction, 4 story and base. Class A, $400,000. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. A complete list of the bids opened for this work will be found under the heading of Oakland and Alameda County. Following is a list of the low men: J. D. Hannah, Monadnock Bldg., S. F., presented the low figure on the general construction at $194,733. Otis Elevator Co. were low for the elevator work and book lifts at $7,435. Raymond Granite Co. low on the exterior granite work at $86,600. M. G. West Co. low on the metal furniture and metal book stacks at $104,379; and Turner Co. low on the plumbing at $8,215.

EAST LOS ANGELES, CAL.—Library, 1 story and base, hollow tile, $30,000. Architects, Lester H. Hibbard and H. B. Cody, Marsh-Strong Bldg., L. A. Owners, City of Los Angeles. Location, southeast corner 26th and Workman streets, covering an area of 96 by 96 feet. Will contain reading rooms, work rooms, stack room and office on the main floor and a large auditorium in the basement. Interior finish pine and hardwood with tile and maple floors. Central heating system and vacuum cleaning. Metal book stacks. Exterior faced with cement plaster. Revised plans complete and figures to be called for at once.

POWER PLANTS AND WATER SYSTEM.

LOS ANGELES, CAL.—Power distributing system. Cost not stated. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. The City Council has finally decided to install and operate an electric distributing system for the benefit of its citizens who are to be served with aqueduct light and power. Plans and specifications for the work are now nearing completion and will be ready for adoption shortly. The cost of two distributing systems, as planned, it is estimated will run about 725,000. There will be two stations, one in the Garvanza district and the other in Hollywood, both of which will be fed by a central station on the banks of the Los Angeles River. Further mention will be made of this work.

PASADENA, LOS ANGELES CO., CAL.—Water pipe. Cost not stated. Engineer, City Engineer, Pasadena. Owners, City of Pasadena. Bids are now being taken by the City Commission for new cast iron pipe for the city water department. Three thousand feet of 4-inch pipe will be bought to have in stock, and 36 feet of 20-inch pipe will be purchased to use on the outlet to the new northwest district reservoir. Further information may be had from the City Clerk or Engineer at Pasadena.

EUREKA, HUMBOLDT CO., CAL.—Water pumping plant, 1 story, reinforced concrete, $13,000. Architect, Edmund J. Burke, Eureka. Owners, City of Eureka. Bids are now being taken and will be opened on February 1st for the construction of a one-story pumping plant and for the installation of mechanical equipment. Further information can be secured from the architect or City Clerk.

RAILROAD CONSTRUCTION AND EQUIPMENT.

FRESNO, FRESNO CO., CAL.—Passenger station, 1½ story and base, concrete, $25,000. Architect, Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Extensive alterations will be made to the present station, and an addition of 40 feet built on each end of the building. Interior of the old building will be rearranged and refinished. Tile floors and wainscot will be used. Steam heat and a vacuum cleaning system will be installed. Exterior will be faced with cement plaster. Plans are complete and bids will be called for at once.

RESIDENCES.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owners, Nelson Bros., 515 Dolores street, S. F. Location, east 19th avenue north of Balboa. Each dwelling will contain seven rooms, bath and sleeping porch. Basement garages are also provided. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,750. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, southeast corner Cabrillo and 15th avenue. Will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors, open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,800. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, west 15th avenue south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finished in pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence repairs, frame, $3,000. Architect, none. Owner, H. G. Reno, 4342 San Pablo avenue, Oakland. Location, 1685 Sutter street. Work will consist of general repairs to fire damage and will include plumbing, interior finish, plastering, electric work, painting and mantels. Exterior will also be repaired. Plans complete and work to be done by Day Labor.

SAN FRANCISCO Residence, 2 story and base, frame, $3,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, K. H. Holmgren, 38 Godeus street, S. F. Location, west 18th avenue south of Balboa. Will contain seven rooms, bath and basement garage. Interior finish pine and southern gum with white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 8, 1 story and base, frame, $3,000 each. Architect, none. Owners, Pockman & Co., 37th avenue and Geary, S. F. Location, 39th and 40th avenues north of Geary. Will contain seven rooms, bath and basement garage. Interiors finished in pine, hardwood veneer and white enamel. Hardwood floors, furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and composition. Automatic water heaters. Exteriors covered with cement plaster, shingles and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, H. A. Pleitner, 954 Fruitvale avenue, Oakland. Location, east Viola south of Allendale. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Alta Piedmont. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont Manor. Will contain eight rooms, two baths and sleeping porch. Interior finished in pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,200. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont Manor. Will contain eight rooms, baths and sleeping porch. Separate garage. Interior finish pine, hardwood panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL. Residence, 1 story and base, frame, $2,500. Architect, M. L. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, east Bryant avenue north of College. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,700. Architect, none. Owner, F. C. Wilson, 2321 Hills street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine throughout. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owners, Reese & Atkins, 743 Weldon street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MODESTO, STANISLAUS CO., CAL.—Residences, 20, 1 story and base, frame. Cost not stated. Architect, none. Owners, Pratt-Lowe Preserving Co., Everett Crane, Mgr., Modesto. Location, adjoining cannery site. Designed for workmen, each to contain four or five rooms and bath. Interiors finished in pine and redwood. Exteriors covered with rustic and shiplap. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,700. Architect, none. Owner, Arthur J. O'Brien, 1334 10th avenue, S. F. Location, south Lawton west of 11th avenue. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile or brick. Tile bath room. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, George H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway south Prospect. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Archi-

tect, none. Owner, George H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway 462 south Prospect. Will contain seven rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $4,000 and $2,500. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, southwest 28th avenue and Lincoln and west 28th north of Irving. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Tile and brick mantels. Tile bath room. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SCHOOLS

BERKELEY, ALAMEDA CO., CAL.—School fire escapes. Cost not stated. Architect, State Architect Benj. G. McDougall, Sacramento. Owners, State of California. Bids will be received until January 27th for installing fire escapes on the Manual Arts buildings of the California School for the Deaf and Blind. Plans can be secured from the State Department of Engineering at Sacramento.

PALO ALTO, SANTA CLARA CO., CAL.—College museum, 2 story and base, reinforced concrete, $80,000. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Preliminary plans have been prepared for a large fireproof museum to be erected on the college campus. Construction and design will be similar to that of other buildings on the campus. Further mention will be made of the work as plans progress.

PETALUMA, SONOMA CO., CAL.—School addition, etc. Cost not stated. Architect, Brainard Jones, Petaluma. Owners, City of Petaluma. Bids will be received until January 28th for moving the manual training building, constructing cement sidewalks and for a frame addition to the said building. Plans and specifications can be secured from the architect.

LOS ANGELES, CAL.—School, 4 story and base. Class A construction, $400,000. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. Location, Knoll street between Wilshire and Pico. Main portion of building, 344 by 70 feet, with two two-story wings each 67 by 80 feet. Reinforced concrete foundations, walls and floors. Concrete stairways, hollow tile partitions. Metal window sash and frames. Steam heat, oil burning system, vacuum cleaning and program clocks. Exterior faced with pressed brick. Plans complete and figures being taken. Bids opened on February 17th. Separate bids for general construction, plumbing, heating, electric work and program clocks.

LOS ANGELES, CAL.—School group, 2, 3 story and base, reinforced concrete, $250,000. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, St. Vincent's College. Location, West 16th street between Vermont and Normandie. Two main buildings will cover areas of 75 by 170 feet. Interior finish pine and hardwood with maple floors. Central heating system housed in separate building. Exteriors faced with pressed brick. Plans being prepared.

Contracts Awarded.

LOS ANGELES, CAL.—School, 2 story and base, brick, $30,000. Architects, Train & Williams, Exchange Bldg., L. A. Owners, City of Los Angeles. Contractor, A. S. O'Neil, Lankershim Bldg., general construction, $23,800. Lohman Bros., 105 East Second street, plumbing, $1,698. Hoakland-Lakin Electric and Engineering Co., heating and ventilating, $2,447.

LOS ANGELES, CAL.—School, 2 story and base, reinforced concrete, $76,400. Architect, Edgar H. Cline, Brockman Bldg., L. A. Owners, City of Los Angeles. Contractors, John Simpson Co., Baker-Detwiler Bldg., L. A. Contract price, $76,400.

BELLINGHAM, WASH. — School, 4 story and base, reinforced concrete. $93,374. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, City of Bellingham. Contractors, Hedrick, Baumeister & Kleuter, Bellingham. Contract price, $93,374.

SEWERS, STREET WORK & WATER SYSTEMS

OAKLAND, CAL. — Sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on January 27th for the construction of a sewer having an internal diameter of 18 inches in Prospect Drive, as follows: Beginning at the intersection of the center line of Prospect Drive with the production of the center line of Carleton street. A sewer having an internal diameter of 24 inches be constructed in Union street, Broadway Terrace and Edith street as follows: Beginning at the eastern end of the above described 18-inch sewer, thence south 396 feet, thence east 626 feet, thence south 407 feet. Seven brick manholes, with cast iron tops. Y branches, each having a 5-inch opening, be constructed on the sewers. The aforesaid sewers and Y branches shall be constructed of first quality, vitrified sewer pipe.

OAKLAND, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the construction of concrete gutters, curbs, redwood curbs and paving with oil macadam of Capp street from Nicol to Brookdale. Bids will be called for shortly.

MODESTO, STANISLAUS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor Annear, Modesto. Owners, Stanislaus County. Plans have been completed for permanent improvement of the four miles of McHenry road from the Modesto city limits to join the Salida-Oakdale lateral at the Bald Eagle ranch and for a mile of paved highway near Newman, and will present them at the next meeting of the Supervisors for their approval. Further mention will be made of this work when action is taken by the Supervisors.

FRESNO, FRESNO CO., CAL.—Electrolier system. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The Board of Trustees has adopted and published a resolution of intention to construct an electrolier street lighting system on each side of J street from Merced to Tuolumne street. Bids will be called for shortly.

FRESNO, FRESNO CO., CAL. — Street paving, curbs and gutters. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The Board of Trustees have adopted a resolution of intention and will call for bids shortly for improving a portion of Santa Fe avenue with cement concrete curbs and gutters, cement concrete base and bithulithic wearing surface and corrugated iron culverts.

MADERA, MADERA CO., CAL.—Road construction, $3,175. Engineer, County Surveyor, Madera. Owners, Madera County. The bid of Tieslau Bros. of San Francisco for the building of the Cochrum road in the Supervisorial district was rejected as being too high and the work was ordered done under the Day Labor system. The bid submitted was $3,175.

OROVILLE, BUTTE CO., CAL.—Road improvement, $5,000. Engineer, County Surveyor, Oroville. Owners, Butte County. The Board of Supervisors has rejected the bid of J. L. Merry Construction Co., Chico, for repairing and altering the Cohasset road. The company bid $6,289.90, which was $1,200 more than the engineer's estimate. County Engineer Martin C. Polk has been instructed to have the work done under the Day Labor system.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer system, $21,330.37. Engineer, City Engineer, Stockton. Owners, City of Stockton. Chambers & Heafey, Bacon Bldg., Oakland, submitted the low bid for sewer construction at $21,330.37. A contract has not been awarded. Other bids received were as follows: D. Bishop, Stockton, $24,093.64; Tibbetts-Pacific Co., S. F., $27,941.79; Frank S. Ostranger, S. F., $23,062.65; Marin Rock Co., San Anselmo, $21,989.41; Fred Meyers, Richmond, $22,460.36; F. C. McIntire, Stockton, $21,761.38; C. D. Vincent, Sacramento, $23,360.69; W. F. Edwards, Oakland, $23,474.98.

AUBURN, PLACER CO., CAL.—Sewer construction. Cost not stated. Engineer's name not given. Owners, Town of Auburn. The City Trustees are arranging for the preparation of plans for the new sewers to be constructed in Auburn. It is expected that the plans will be ordered at the next meeting. Funds for the work are now available.

SANTA CRUZ, SANTA CRUZ CO., CAL.— Sewer construction. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. The City Council has passed an ordinance adopting specifications for the Campbell avenue sewer to be built at Garfield Park. Further mention will be made of this work when bids have been called.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. The City Trustees at their last meeting ordered the City Engineer to prepare plans and specifications for the im-

provement of Walnut avenue. Bids on this work will be called for on the completion of the plans.

ANTIOCH, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Antioch. Owners, City of Antioch. The Town Board of Trustees has passed resolutions of intention providing for the construction of sewers in Second, Fourth, Sixth and Seventh streets. Bids will be called for at the next meeting of the Board. Further mention will be made of this work.

SAN FRANCISCO—Street improvements. Cost not stated. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The Board of Public Works at their regular meeting directed the secretary to advertise for bids for the improvement of 37th avenue between Anza and Balboa until January 26th. They also directed the City Engineer to prepare proceedings for the grading and sewering of 23rd street between Hoffman and Grand avenues.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be opened on February 8th for grading and construction of culverts on Div. 11, Sec. 4, Caliente-Kernville road, being that portion lying between a point in the present traveled road from Havilah to Bodfish, length approximately one and two-tenths miles.

BAKERSFIELD, KERN CO., CAL.—Highway improvement. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be opened on February 8th for grading, paving and construction of culverts on Div. 7, Sec. 2, Bakersfield-Taft road, being that portion lying between the Old River Store and the bridge over the inlet channel to Buena Vista Lake, length approximately 11 miles.

MARYSVILLE, YUBA CO., CAL.—Drainage system, $5,000. Engineer, Engineering Department Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. The Southern Pacific Co. will spend $5,000 in improving drainage conditions on the eastern side of its right of way in the northern part of this city, according to information made public from the engineering offices of the company.

BERKELEY, ALAMEDA CO., CAL.—Sewer work. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be opened on January 25th for the construction of a 6-inch vitrified, ironstone pipe sewer in High Court Tract, also a concrete catch basin with curb inlet and cast iron grating cover be constructed in the gutter; also an 8-inch corrugated iron pipe.

BERKELEY, ALAMEDA CO., CAL.—Electroliers. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received until January 25th for the construction and installation of 232 electroliers together with the underground conduit, etc. Plans can be secured from the office of the City Clerk.

REEDLEY, FRESNO CO., CAL.—Sewer filter, etc. Cost not stated. Engineer, City Engineer, Reedley. Owners, City of Reedley. The State Board of Health has taken action concerning the disposal of sewage in the city of Reedley, and has sent a communication to the clerk of the trustees stating that the board, at their next meeting will grant a permit to the city to dispose of its sewage into Kings River in accordance with the recommendations of the director of the bureau of sanitary engineering, under date of January 5, 1916, which are: 1, That a modern sprinkling filter be constructed, as outlined in the report; 2, That at a river stage of three feet or less (flow not less than 10,000 second feet) no sewage should be permitted to enter the river direct without additional treatment to completely sterilize it. Further mention will be made of the work when action is taken by the Reedley officials.

Contracts Awarded.

BAKERSFIELD, KERN CO., CAL.—Road construction, $29,412.30. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractors, Mackie & McLean, 320 Market street, S. F., Div. 6, Sec. 1, McKittrick-Maricopa road. Contract price, $29,412.30.

TURLOCK, STANISLAUS CO., CAL.—Street paving, etc. Cost as follows. Engineer, City Engineer, Turlock. Owners, City of Turlock. Contractor, Pool, Turlock. Contract prices: Grading, 1¼c per square foot, oiling, 1¼c per square foot, curbing 29c per lineal foot.

HANFORD, KINGS CO., CAL.—Highway construction. Cost as follows. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractor, O. D. Johns, San Francisco. Contract prices: Item 1, 47c per cubic yard; item 2, $0.0222 per square foot; item 3, $0.0111 per square foot; item 5, 30c per lineal foot.

SAN MATEO, SAN MATEO CO., CAL.—Street improvement. Cost not stated Engineer, City Engineer, San Mateo. Owners, City of San Mateo. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract price not stated.

SACRAMENTO, CAL.—Highway construction Cost as follows. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Taylor & Berliner, Willows, Cal., Tehama County Routes 7 and 3, $61,282. A. C. McLean Construction Co., 320 Market street, S. F., Div. 3, Route 17B, Sec. A,$36,224.80; Div. 3, Route 17, Sec. B, $30,814.60.

RED BLUFF, TEHAMA CO., CAL.—Road improvement. Cost as follows. Engineer, County Surveyor, Red Bluff. Owners, Tehama County. Contractors, J. C. Trent and J. B. Peaslee, Red Bluff. Improvement of portion of Paynes Creek road. Contract price, $3.38 per cubic yard.

OAKLAND, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Contractors, Kopperud Construction Co., 2030 High street, Oakland. Contract price not stated.

ONTARIO, SAN BERNARDINO CO., CAL.—Paving, gutter and culverts, $45,000. Engineer, City Engineer, Ontario. Owners, City of Ontario. Contractors, S. & C. Contracting Co., Washington Bldg., L. A. Contract price, $45,000, approximate.

HUNTINGTON BEACH, ORANGE CO., CAL.—Paving, etc., $73,000. Engineer, City Engineer, Huntington Beach. Owners, City of Huntington Beach. Contractor, Leigh Garnsey, Central Bldg., L. A. Contract price, $73,000.

STORES AND OFFICES.

SAN FRANCISCO—Stores and lofts, 2 story and base, brick and steel. Cost not stated. Architect, Herbert E. Maggs, 125 Alpine street, S. F. Owner, Mrs. E. M. H. Otto, leased to Hermann Safe Co. Location, west Fremont south of Howard. Will contain office, show rooms and factory. Interior finish pine and hardwood. Tile floor. Elevator service and patent store fronts. Marble bases. Exterior faced with pressed brick. Plans complete and figures in and under advisement.

TACOMA, WASH.—Stores and lofts, 2 story and base, brick and concrete, $55,000. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, Frye Packing Co. Location, 12th and Broadway, covering an area of 60 by 120 feet. Will contain stores and offices and light lofts. Interior finish pine and redwood. Maple floors. Patent store fronts. Elevator service and steam heat. Exterior faced with pressed brick. Plans being prepared.

SEATTLE, WASH. — Stores, offices and club rooms, 9 story and base. Class A construction, $300,000. Architect, A. Warren Gould, American Bank Bldg., Seattle. Owner, James Moses, leased to Artic Club. Location, northeast corner 3rd avenue and Cherry, covering an area of 111 by 120 feet. Reinforced concrete frame, floors and roof slabs. Besides the quarters of the Artic Club, which will be elaborately finished, plans provide for 120 modern offices and about 50 hotel rooms. Steam heat, elevator service, vacuum cleaning and hot water supply. Exterior faced with cut stone and terra cotta. Plans complete and figures being taken. Bids close January 27th.

Contracts Awarded.

MADERA, MADERA CO., CAL. — Store, 1 story and base, brick, $5,000. Architects, Glass & Butner, Republican Bldg., Fresno. Owner, Con Breslin. Contractors, Hansen Contracting Co., Fresno. Contract price, $5,000.

THEATRES

SAN FRANCISCO—Theatre, 2 story and base. Class A construction, $175,000. Architect, Matthew O'Brien, Foxcroft Bldg., S. F. Owners, Ellis Street Investment Co. Location, northeast corner Ellis and Mason streets, covering an area of 87½ by 137½ feet. Construction fireproof. Main lobby, balcony and several stores. Interior finish pine, metal and ornamental plaster. Steam heat, vacuum cleaning and hot water system. Exterior faced with pressed brick and terra cotta. Plans complete and contract for structural steel work to be awarded at once. Segregated figures to be taken for the balance of the work.

BERKELEY, ALAMEDA CO., CAL.—Theatre alteration, 1 story, concrete and steel. Cost not stated. Architect, L. F. Hyde, 2745 26th avenue, Oakland. Owner, Lorin Photoplay Co., Beach & Krahn. Location, Adeline near Alcatraz. Work will consist of new interior finish, structural roof trusses and columns, plumbing, electric work, painting and plastering. Exterior to be faced with cement plaster. Plans complete and contract for steel work awarded to Judson Iron Works.

OFFICIAL PROPOSALS.

PROPOSALS FOR SALE OF VESSEL.

SALE OF U. S. NAVAL VESSELS—Sealed proposals will be received at the bureau of supplies and accounts, Navy Department, Washington, D. C., until **12 o'clock noon January 24, 1916,** when they will be publicly opened, for the purchase of the following vessels: U. S. S. Justin at the navy yard, Mare Island, Cal. (She is expected to reach Mare Island about December 15.) Appraised value, $75,000. U. S. S. Oneida at the navy yard, Charleston, S. C., appraised value, $2,500. The sale will be for cash to the bidder offering the highest price above the appraised value. Forms of proposal and bond and information concerning the vessels and the terms and conditions of sale may be obtained upon application to the bureau of supplies and accounts. JOSEPHUS DANIELS, Secretary of the Navy.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1004 — Proposals for Refrigerating Apparatus, Electric Cable, Cable End Bells, Barbed Wire, Staples, Brake Beam Hooks, Steel Locomotive Pilots, Coupler Knuckle Pins, Spring Plates, Screening for Locomotive Tank Wells, Copper Gaskets, Saws, Pipe Fittings, Flush Pipe, Brass Cleanouts, Floor Drains, Lead Traps, Urinals, Closet Chain Pulls, Valves, Cocks, Compression Cups, Steam Gauges, Water Gauges, Engine Lubricators, Gauge Lamps, Lamp Chimneys, Paint Brushes, Corrugated Tender Hose, Rubber Valves, Asbestos Gaskets, Steel Erasers, Record Books, Manila Tags, Manila Paper, Lard Oil, Castor Oil, Red Lead, Shellac, Varnish, Paints and Putty.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 29, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1004) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO MATERIAL MEN.

A list showing the principal importers and users of boiler and engine packing, and of building contractors, who occasionally import asbestos boards and tiles for construction purposes, may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 70174. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1003 — Proposals for Stayholt Iron, Switchpoints, Cast Iron Wheels, Brake Beams, Manganese Steel Dipper Lips, Nickel Chrome Steel Dipper Teeth, Meat Storage Track System, Roof Ventilators, Cast Iron Lamps and Brackets, Bolts, Mule Shoes, Toe Calks, Bronze Bars, Copper Bars, Brass Nuts, Sheet Lead, Gage Valves, Grease Cups, Whitewash Brushes, Scrub Brushes, Duster Brushes, Leather Belting, Rubber Valves, Hose, Packing, Asbestos Gaskets, Sash Cord, Plumbbob Cord, Burlap, Cheesecloth, Bunting, Cotton Canvas, Tarpaulins, Rubbing Felt, Marline, Emery Cloth, Sandpaper, Oilcloth, Magnesia Pipe Covering, Butcher's Blocks, Window Glass, Teaspoons, Granulated Cork, Lump Chalk, Calcium Carbide, Lye, Potassium Chlorate, Metal Polish, Soap, Memorandum Books, Cardboard and Paper.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. January 24, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1003) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR FIRE ESCAPE.

Notice to Contractors.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Thursday, January 27th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials and labor; and doing the work required to complete the New Fire Escape for the Manual Arts Building, California School for Deaf and Blind, Berkeley, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms pepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Five ($5.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Poposal for Fire Escape, California School for Deaf and Blind, Berkeley, California."

(Signed) W. F. McCLURE,
State Engineer.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Thursday, February 17, 1916,** said bids then and there to be publicly opened and read **for furnishing all plant, materials and labor, and doing the work required for the complete construction and erection of "Alterations to South Pay Cottage," Napa State Hospital, near Napa, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Alterations to South Pay Cottage,' Napa State Hospital, near Napa, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owners, Nelson Bros., 515 Dolores street, S. F. Location, east 19th avenue north of Balboa. Each dwelling will contain seven rooms, bath and sleeping porch. Basement garages are also provided. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,750. San Francisco. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, southeast corner Cabrillo and 15th avenue. Will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pipe, hardwood and white enamel. Hardwood floors, open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $2,800. San Francisco. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, west 15th avenue south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE REPAIRS—Frame, $3,000. San Francisco. Architect, none. Owner, H. G. Reno, 1342 San Pablo avenue, Oakland. Location, 1685 Sutter street. Work will consist of general repairs to fire damage and will include plumbing, interior finish, plastering, electric work, painting and mantels. Exterior will also be repaired. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, K. H. Holmgren, 98 Godeus street, S. F. Location, west 18th avenue south of Balboa. Will contain seven rooms, bath and basement garage. Interior finish pine and southern gum with white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—8, 1 story and base, frame, $3,000 each. San Francisco. Architect, none. Owners, Peckham & Co., 57th avenue and Geary, S. F. Location, 29th and 30th avenues north of Geary. Will contain seven rooms, bath and basement garage. Interiors finished in pine, hardwood veneer and white enamel. Hardwood floors, furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and composition. Automatic water heaters. Exteriors covered with cement plaster, shingles and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $30,000. San Francisco. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Location, south Broadway, 343 west Webster, covering an area of 33 feet 9 inches by 100 feet. Will contain six apartments of five rooms and bath besides servants' rooms. Interiors finished in white enamel and mahogany Hardwood floors. Bath rooms tile Steam heat, oil burning system and hot water supply. Dumb waiters. Ornamental plaster and imported tapestries. Marble and tile in lobby. Exterior faced with veneer pressed brick, trimmed with marble. Plans complete and figures being taken.

APARTMENT HOUSE—7 story and base, steel and reinforced concrete, $80,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, F. C. Finkle. Location, northwest corner pine and Stockton streets. Will contain 42 apartments of two, three and four rooms besides large lobby, dance floor and conservatory. Interior finish pine and mahogany and white enamel. Hardwood floors. Marble and tile wainscot, ornamental plaster. Bath rooms tile Steam heat, elevator service, dumb waiters, hot water supply, vacuum cleaning and oil burning equipment. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be called for within a week.

APARTMENT HOUSE—6 story and base, steel and brick, $65,000. San Francisco. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, Meyer Wood. Location, southeast corner of Sutter and Leavenworth, covering an area of 62½ by 79 feet. Will contain thirty-six apartments of two, three and four rooms. Interiors finished in pine and hardwood. Hardwood floors. Wall beds. Bath rooms tile. Steam heat, automatic elevator, dumb waiters, hot water system and oil burning equipment. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures being taken.

APARTMENT HOUSE AND STORES —6 story and base, brick and steel, $55,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Theo. E. Rulfs. Location, southeast corner of Sutter and Jones streets, covering an area of 55 by 68 feet. Will contain five stores on first floor and thirty apartments of two, three and four rooms on the upper floors. Interior finished in pine and hardwood. Hardwood floors, wall beds. Bath rooms tile. Automatic elevator, steam heat, hot water system and vacuum cleaning. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be called for within a week.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southwest corner San Jose avenue and 24th street. Will contain twelve suites of three and four rooms with bath. Interior finish pine with some hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms floors magnesite. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, Louis Mastropasqua, 580 Washington sareet, S. F. Owner, John Garibaldi. Location, 2814 Gough street. Will contain two modern flats of five and six rooms. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with cement plaster on metal lath. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $17,000. San Francisco. Architects, Smith & Stewart, 244 Kearny street, S. F. Owner's name withheld. Location, Broadway near Van Ness avenue. Will contain six apartments of four rooms and bath. Interior finish pine and mahogany. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Exterior covered with cement plaster and pressed brick veneer. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $9,000. San Francisco. Architect, J. A. Porporato, 519 Washington street, S. F. Owner, Rosa Croce, 658 Green street, S. F. Location, west Powell north of Clay, covering an area of 26 by 60 feet. Will contain five suites of three rooms and bath. Interiors finished in pine throughout. Some hardwood floors. Hot water system. Wall beds. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $2,700. San Francisco. Architect, none. Owner, Arthur J. O'Brien, 1334 10th avenue, S. F. Location, south Lawton west of 11th avenue. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors and open fire place. Mantel tile or brick. Tile bath room. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

STREET IMPROVEMENTS — Cost not stated. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The

Board of Public Works at their regular meeting, directed the secretary to advertise for bids for the improvement of 37th avenue between Anza and Balboa until January 26th. The Board also directed the City Engineer to prepare proceedings for the grading and sewering of 23rd street between Hoffman and Grand View avenues.

APARTMENT HOUSE AND STORES—4 story and base, brick and steel, $10,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner, Robert Trost, 26th and Howard streets, S. F. Location, southeast corner of 26th and Mission streets, covering an area of 90 by 100 feet. Will contain nine stores on the ground floor besides the entrance. Upper floors arranged for 42 apartments of two, three and four rooms. Interior finish pine and hardwood with some hardwood floors. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Wall beds. Patent store fronts and marble wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

FIRE HOUSE—2 story and base. Class C construction, $40,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Architect Reid has just been commissioned to prepare plans for the new fire station to be located on Pacific avenue between Polk and Van Ness. Details of construction are not available. Further mention will be made of the work. Bids will be taken by the Board of Public Works.

LAUNDRY ADDITION — 1 story, frame, $3,000. San Francisco. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner's name withheld. Location, 15th near Howard. Interior finish pine with cement floor. Special laundry machinery. Exterior shiplap. Plans complete and work to be done by Day Labor.

WAREHOUSE—4 story and base, mill construction. Cost not stated. San Francisco. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, Maria Cebrian, leased to General Electric Co. Location, south Bryant east of Second, covering an area of 126 by 160 feet. Will contain storage space, shipping rooms and receiving rooms. Elevator service, automatic sprinklers. Metal window sash and frames and fireproof doors. Exterior faced with stock brick. Plans complete and segregated figures taken. Contract to be awarded at once.

FLATS AND STORE—2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Valentine Fritz, 2022 Clement street, S. F. Location, south Geary west of 19th. Will contain a store and two modern flats of five rooms and bath. Interior finish pine with some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, N. M. Nielson, 917 Ingerson street, S. F. Location, west Hawes south of Ingerson. Will contain two small flats. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

FLATS ALTERATION—2 story and base, frame, $15,000. San Francisco. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, Claus Schilling, 2210 Vallejo street. Location 2210 Vallejo. Work will consist of altering a large residence into three modern flats, and will include new interior partitions, trim, plastering, painting, plumbing and electric work. Exterior will be faced with cement plaster. Plans complete and figures being taken.

HALL OF JUSTICE ELEVATOR ALTERATIONS—$7,791. San Francisco. Architect, City Department of Architecture, Temporary City Hall. Owners, City and County of San Francisco. Contractor, William Newsom, concrete work, $7,791. Otis Elevator Co., elevator, $3,490.

GARAGE—1 story and base. Class C construction. Cost not stated. San Francisco. Engineer, Pierre Zucco, 166 Geary street, S. F. Owner, Charles P. Kern. Location, Valencia between 18th and 19th streets. Designed for a commercial garage and will accomodate about 80 machines. Interior finish rough. Cement floors. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

HOSPITAL ADDITION—5 story and base. Class A construction, $300,000. San Francisco. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Location, Clay street near Webster. Plans have been completed and approved for the construction of a wing to the Lane Hospital, which will give that institution an addition of more than 200 beds. Complete steel frame, brick walls, faced with pressed brick. Interior finish pine and hardwood with marble and white enamel. Steam heat from central plant.

RESIDENCES—2, 2 story and base, frame, $4,000 and $2,500. San Francisco. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, southwest 28th avenue and Lincoln and west 28th north of Irving. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Tile and brick mantels. Tile bath room. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STORES AND LOFTS—2 story and base, brick and steel. Cost not stated. San Francisco. Architect, Herbert B. Maggs, 125 Alpine street, S. F. Owner, Mrs. E. M. H. Otto, leased to Hermann Safe Co. Location, west Fremont south of Howard. Will contain office, show rooms and factory. Interior finish pine and hardwood. Tile floor. Elevator service and patent store fronts. Marble bases. Exterior faced with pressed brick. Plans complete and figures in and under advisement.

THEATRE—2 story and base. Class A construction, $175,000. San Francisco. Architect, Matthew O'Brien, Foxcroft Bldg., S. F. Owners, Ellis Street Investment Co. Location, northeast corner Ellis and Mason streets, covering an area of 87½ by 137½ feet. Construction fireproof. Main lobby, balcony and several stores. Interior finish pine, metal and ornamental plaster. Steam heat, vacuum cleaning and hot water system. Exterior faced with pressed brick and terra cotta. Plans complete and contract for structural steel work to be awarded at once. Segregated figures to be taken for the balance of the work.

Contracts Awarded.

APARTMENT HOUSE—4 story and base, brick, $40,000. San Francisco. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, E. J. Greenhood. Contractors, New Era Marble and Concrete Co., foundation work, $1,000. Otis Elevator Co., elevator, $1,625. Pacific Manufacturing Co., mill work, ———. Jack Barman, painting, $1,200. J. W. Asher Electrical Co., electric work, $1,000, and Golden Gate Iron Works, structural steel, $2,300.

APARTMENT HOUSE—6 story and base, reinforced concrete, $44,750. San Francisco. Architects, Smith & Stewart, 244 Kearny street, S. F. Owners, Smith & Stewart, 244 Kearny street. Contractor, J. B. Reite, 110 Jessie street, S. F. Contract price, $44,750.

OAKLAND AND ALAMEDA COUNTY.

SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on January 27th for the construction of a sewer having an internal diameter of 18 inches in Prospect Drive, as follows: Beginning at the intersection of the center line of Prospect Drive with the production of the center line of Carleton street. A sewer having an internal diameter of 24 inches be constructed in Union street, Broadway Terrace and Edith street, as follows: Beginning at the eastern end of the above described 18-inch sewer, thence south 398 feet, thence east 620 feet, thence south 407 feet. Seven brick manholes, with cast tops, Y branches, each having a 5-inch opening, be constructed on the sewers. The aforesaid sewers and Y branches shall be constructed of first quality, vitrified sewer pipe.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the construction of concrete gutters, curbs, redwood curbs, and paving with oil macadam of Capp street from Nicol to Brookdale. Bids will be called for shortly.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, H. A. Pleitner, 954 Fruitvale avenue, Oakland. Location, east Viola south of Allendale. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base frame, $4,000. Piedmont, Alameda Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Alta Piedmont. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick.

Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $4,000. Piedmont, Alameda Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont Manor. Will contain eight rooms, two baths and sleeping porch. Interior finished in pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $4,200. Piedmont, Alameda Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Piedmont Manor. Will contain eight rooms, baths and sleeping porch. Separate garage. Interior finish pine, hardwood panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. Connor. Location, east Bryant avenue north of College. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $18,000. Berkeley, Alameda Co., Cal. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Mrs. Broderick. Location Miles avenue near College. Will contain two, three and four room suites with baths. Interior finish pine and hardwood with hardwood floors. Steam heat and hot water system. Bath rooms tile. Wall beds. Marble and tile entrance. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. Oakland, Cal. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, Noble Newsom. Location, 10th and Oak streets. Will contain a number of two and three rooms apartments with private baths and wall beds. Interior finish pine and elm panels. Some hardwood floors. Steam heat and a hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with cement plaster. Plans being revised.

APARTMENT HOUSE—4 story and base, brick, $75,000. Berkeley, Alameda Co., Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, Telegraph avenue and Haste street, covering an area of 95 by 130 feet. Will contain five stores on the first floor beside the lobby and entrance and 125 rooms on the upper floors. Apartments arranged in suites of two three and four rooms with private baths and wall beds. Interiors finished in pine and hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, automatic elevator and hot water supply. Bath rooms tile. Marble and tile wainscot and patent store fronts. Exterior faced with pressed brick. Plans being prepared.

APARTMENT HOUSE AND STORES —4 story and base, brick, $70,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, 24th and Telegraph. Will contain stores on the first floor besides the entrance and lobby. Upper floors arranged for two, three and four room apartments. Interior finished in pine and hardwood. Hardwood floors. Steam heat, automatic elevator, dumb waiters, oil burning plant, hot water system and vacuum cleaning. Bath rooms tile. Wall beds. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and owners to take sub-figures this week.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, George H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway 462 south Prospect. Will contain seven rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, George H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway 502 feet south of Prospect. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SEWER WORK—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be opened on January 25th for the construction of a 6-inch vitrified ironstone pipe sewer in High Court Tract, also a concrete catch basin with curb inlet and cast iron grating cover be constructed in the gutter; also an 8-inch corrugated iron pipe.

ELECTROLIERS—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received until January 25th for the construction and installation of 232 electroliers together with the underground conduit, etc. Plans can be secured from the office of the City Clerk.

SWIMMING TANK—Reinforced concrete. Cost not stated. Alameda, Alameda Co., Cal. Architect, Edward J. Symmes, Pacific Bldg., S. F. Owners, Surf Beach Amusement Co. The tank will be 75 by 300 feet with sides and bottom lined with glazed terra cotta. A large reinforced concrete bulkhead will also be constructed. The same architect has plans underway for a large amusement concession to be erected at Bay City, Los Angeles County, for a company headed by Frank Burt, Title Insurance Bldg., L. A. Bids are being taken for the work at Surf Beach.

CHURCH — 1 story, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owners, Central Methodist Episcopal Church. Location, southeast California and Derby. Will contain auditorium and Sunday school rooms. Interior finish pine. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

SCHOOL FIRE ESCAPES—Cost not stated. Berkeley, Alameda Co., Cal. Architect, Benj. G. McDougall, Sacramento. Owners, State of California. Bids will be received until January 27th for installing fire escapes on the Manual Arts buildings of the California School for the Deaf and Blind. Plans can be secured from the State Department of Engineering at Sacramento.

THEATRE ALTERATION—1 story concrete and steel. Cost not stated. Berkeley, Alameda Co., Cal. Architect, L. F. Hyde, 2745 26th avenue, Oakland. Owners, Lorin Photoplay Co., Beach & Krahn. Location, Adeline near Alcatraz. Work will consist of new interior finish, structural steel roof trusses and columns, plumbing, electric work, painting and plastering. Exterior to be faced with cement plaster. Plans complete and contract for steel work awarded to Judson Iron Works.

Contracts Awarded.

STREET IMPROVEMENT — Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Contractors, Kopperud Construction Co., 2030 High street, Oakland. Contract price not stated.

Bids Opened For U. C. Library.

J. D. Hannah Low Man for General Construction. Contracts to be Awarded in a Few Days.

Bids were opened by the Regents of the University of California on January 13th for work on five branches of the work in connection with the construction of the University Library on the Campus at Berkeley.

J. D. Hannah, Monadnock Bldg., San Francisco, presented the low figure on the general construction at $194,733; Otis Elevator Co. was low for the elevator work and book lifts at $7,485; Raymond Granite Co. low on the exterior granite work at $86,600; M. G. West Co. low on the metal furniture and metal book stacks at $104,379; Turner Co. low on the plumbing at $8,-21[illegible].

Contracts will be awarded within a few days on most of the work figured. Plans were prepared by Architect John Galen Howard, 604 Mission street, San Francisco. Following is a complete list of the bids received:

General Construction.

Wm. A. Newsom	$207,933
Sound Constr. & Eng. Co.	212,897
Howard S. Williams	226,770
Van Sant-Houghton	227,733
R. H. Mathewson & Co.	206,000
Caldwell & Son	205,740
McLeran & Peterson	204,600

Collman & Collman	214,753
J. S. Hannah	218,413
Lange & Bergstrom	220,827
Ward & Goodwin	218,000
Clinton Constr. Co.	214,800
*J. D. Hannah	194,733
Anderson & Ringrose	199,700
Williams Bros. & Henderson	209,800
Carnahan & Muiford	206,889
W. T. Commary & Co.	219,500
(Bond less than 10%)	
John Monk	217,250
James L. McLaughlin	221,260
Grant Fee	204,000

Elevators.

*Otis Elevator Co.	$7,485
Spencer Elevator Co.	8,850

Granite.

California Granite Co.	$93,200
*Raymond Granite Co.	$6,600
McGilvray Granite Co.	90,885

Book Stacks and Metal Furniture.

General Fireproofing Co., $108,757; Stack B omitted, deduct, $19,100.

Capital Sheet Metal Works, $106,000.

*F. W. Wentworth & Co., $100,675.63; deduct, $16,607.07.

Herman Safe Co., $105,985; deduct, $14,015.

Ralston Iron Works, $114,000; deduct, $19,974.

M. G. West Co., $104,379; deduct, $20,594.

Plumbing.

F. B. McKeon	$11,870
Frederick W. Snook	9,440
*Turner Co.	8,215
Robert Dalziel	8,497
Carl T. Doell	9,781
Wm. F. Wilson	10,268
Scott Company	8,970

Alameda Builders Enjoy Banquet.

Annual Membership Meeting and Banquet of Alameda County Builders' Exchange a Great Success.

The Annual Membership Meeting of the Builders' Exchange of Alameda County was called to order Saturday, January 8th, at 6 P. M. At that time the following eleven directors were elected to serve during 1916: Frank Oates, O. A. Edwall, E. G. Hunt, H. C. Steinbach, O. W. Fletter, Wm. Makin, P. N. Winlund, James Pedgrift, Al. Poulsen, J. P. Woods and Al. Hillman.

Reports were read showing the Exchange was now running about $50 ahead of their expenses. A resolution was adopted providing for a membership meeting on the First Monday in each month, between the hours of 1 and 2 P. M.

Following the meeting the members adjourned to the Hotel Oakland, where a fine banquet was served. Mr. Wm. Makin, the President of the Exchange, acted as the Toastmaster for the evening. During the course of the festivities the members and their guests were addressed by P. F. Bradhoff, Secretary of the General Contractors' Association of Alameda County; F. J. Woodard of the Great Western Power Co.; Frank Bilger of the Oakland Paving Co.; Robt. Knox, oldest living member of the Exchange; Ollie Fletter, James Pedgrift, George Dixon and R. W. Bartram, prominent contractors in the Exchange.

The Prince of Story Tellers, Jimmy McVey, was in very fine form and kept his audience in a gale of merriment for three-quarters of an hour. Mr. Kerr and Jim McKeon were also "There a million."

Classical music was furnished by the Exchange favorites, Frank Oates and Billy Makin, while Wm. Wright, Eddy Davis, Secretary of the Exchange, Mr. Wilson (some coon shonter) and Jimmy McVey favored the members with rag time and comic songs.

Jimmy McKee, of the City Electrical Department, recited a poem of Alaska in a manner that elicitated great applause.

Last, but by no means least, was that exponent of "The quickness of the hand deceives the eye," in a number of card tricks that were extremely clever.

Just in time to get out of the hotel before Sunday began, the banquet broke up after all present voted it "some evening."

U. C. Regents Receive Many Figures For Hospital Work.

Various Parts of the Work at Fourth and Parnassus Avenues Attracts Local Firms. Close Bids on Brick, Carpentry Work and Furring, Lathing and Plastering. Painting Figures Run Wild.

Bids were opened Monday afternoon in the offices of Lewis P. Hobart, Crocker Bldg., for various parts of the work in connection with the completion of the University of California Hospital, now under construction at the corner of Fourth and Parnassus avenues in this city.

The date for receiving figures for the hardware was postponed until January 25th at 1:30 P. M., when bids will be opened in Mr. Hobart's office.

The following firms were low: Furring, lath and plastering, Joseph Kaiser $40,045, $40,430, $40,237; carpentry work McLeran & Peterson, $48,300, $46,300, $51,000; brick work, Arthur Arlett, $50,120; architectural terra cotta one bid only, Gladding & McBean Co., $23,900; roofing and sheet metal work, United States Metal Products Co., Prop. 1, $14,353; Roberts Dalziel, Prop 2, $19,000; ornamental iron work, Monarch Iron Works, $10,624; tiling, G. McElhinney, $21,698 for 745 days and The Scott Co., $21,699 for 50 days; marble work, Mission Marble Works, $5,200; painting, D. Zelinsky, $14,860, $16,990; glass and glazing, California Plate & Window Glass Co., $4,640; composition flooring, Mallott & Peterson, $1,800, and lighting fixtures, Thomas Day Co., $4,300.

Following is a complete list of the bids as opened:

Furring, Lathing and Plastering.

H. Bosch	$45,800	$46,250	$49,360
Joseph Kaiser	40,045	40,430	40,237
Greenbach Plastering Co.	45,425	add 750	add 1,900
Brady & O'Reilly	41,900	add 295	add 1,440
Robert Simpson	44,267	44,939	49,639
James F. Smith	41,900	42,200	43,300
Gus Johnson	46,500	47,000	49,000
George McGruer	42,359	42,715	43,859
William Knowles	48,984	49,484	51,484
R. D. Felt	47,839	48,389	51,904
Lyden & Bickell	45,500	45,764	46,985
C. C. Morehouse	52,978	53,400	55,767

Carpentry Work.

P. F. Reilly	$53,906	$51,406	$55,306
W. A. Newsom	58,973	56,973	60,961
McLeran & Peterson	48,300	46,300	51,000
Lester H. Stock	54,752	52,000	56,400
Pacific Manufacturing Co.	64,984	62,840	66,800
Cameron & Disston	51,900	.....	51,600
M. P. Mortensen	54,900	51,850	56,600
Taylor & Goerick	51,970	49,670	54,370
Anderson & Ringrose	61,840	deduct 1,400	add 1,500
W. D. Henderson	49,569	48,560	51,569
Leiter & Sons	64,587	60,607	.....
Stockholm & Allyn	59,850	deduct 2,500	62,260
W. & R. H. Pearce*	48,638	45,388	65,000

*NOTE—Bidder states not including concrete forms.

Brick Work.

Hogberg & Ludwig	$55,500
Brandon & Lawson	59,850
M. J. White & E. Gloor	59,400
Ringrose & Son	53,840
A. P. Brady	57,140
Thomas Campbell	54,348
Mealy & Collins	59,800
Farrell & Reed	50,472
Arthur Arlett	50,120
Fred Preston	52,225
Lindgren & Co.	54,400
Charles Hock	62,485
McGowan & Butler	58,516
Lester H. Stock	65,440
Alonzo Reed	54,511

Architectural Terra Cotta.

Gladding, McBean & Co.	$23,900

Roofing and Sheet Metal.

Capitol Sheet Metal Wks	15,900	22,000
Robert Dalziel	18,857	19,000
Porderer Cornice Works	15,518	20,436
J. S. Metal Products Co.	$14,353	$21,413

Painting.

Vincent Donovan	$21,000	$23,000
J. R. Kissel	19,183	20,683
Pozer Co.	16,824	17,442
W. T. Baker Co.	25,650	27,500
W. A. Wheeler	36,250	add 925
D. Zelinsky	14,860	16,990
H. Cohn	27,280	28,280

Glass and Glazing.

Cal. Plate & Window Glass Co.	$4,640
W. P. Fuller	4,920

Composition Floors.

Hallott & Peterson	$1,800
Tiberstone & Roofing Co.	3,540
John D. Hoff Asbestos Co.	1,830

Lighting Fixtures.

Geo. J. Meyberg	$5,640
H. W. Johns-Manville Co.	6,500
Adams & Hollopeter	7,654
Roberts Mfg. Co.	6,050
Thomas Day Co.	4,300
Eckelheimer Bros. Co.	4,988

Ornamental Iron Work.

Monarch Iron Works	$10,624
Cal. Artistic Wire & Metal Wks	12,660
Pacific Iron Works	10,800
Vulcan Iron Works	11,453
Sartorius Co.	13,446
C. J. Hilliard	11,750
Rudgear-Merle Co.	16,750

Tiling.

G. McElhinney	$21,698
Mangrum & Otter	22,719
Holloway Expanded Metal Co.	23,350
Thomas F. Rigney	24,980
Scott Co.	21,699
Lowry & Daly	25,490
W. W. Montague	27,500

Marble Work.

Mission Marble Works	$5,200
Vermont Marble Co.	5,840
American Marble & Mosaic Co.	6,190

SAN JOSE AND THE SANTA CLARA VALLEY

SEWER CONSTRUCTION — Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. The City Council has passed an ordinance adopting the specifications for the Campbell avenue sewer to be built at Garfield Park. Further mention will be made of this work when bids have been called.

STREET IMPROVEMENT — Cost not stated. South San Francisco, San Mateo Co., Cal. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. The City Trustees at their last meeting ordered the City Engineer to prepare plans and specifications for the improvement of Walnut avenue. Bids on this work will be called for on completion of the plans.

STREET IMPROVEMENT—Cost not stated. San Mateo, San Mateo Co., Cal. Engineer, City Engineer, San Mateo. Owners, City of San Mateo. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract price not stated.

COLLEGE MUSEUM—2 story and base, reinforced concrete, $80,000. Palo Alto, Santa Clara Co., Cal. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr. University. Preliminary plans have been prepared for a large fireproof museum to be erected on the college campus. Construction and design will be similar to that of other building on the campus. Further mention will be made of the work as plans progress.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SEWER CONSTRUCTION—Cost not stated. Antioch, Contra Costa Co., Cal. Engineer, City Engineer, Antioch. Owners, City of Antioch. The Town Board of Trustees has passed resolutions of intention providing for the construction of sewers in Second and Fourth streets, in Sixth and Seventh streets. Bids will be called for at the next meeting of the Board. Further mention will be made of this work.

COURT HOUSE ADDITION — Reinforced concrete. Cost not stated. San Rafael, Marin Co., Cal. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Preliminary plans are being prepared for a one-story addition to house the sheriff's office, recorder and auditor. Construction will be fireproof. Interior finish hardwood and metal. Central heating system extended from present building. Exterior faced with cement plaster. Further mention will be made when plans are complete.

SCHOOL ADDITION, ETC.—Cost not stated. Petaluma, Sonoma Co., Cal. Architect, Brainard Jones, Petaluma. Owners, City of Petaluma. Bids will be received until January 28th for moving the manual training building, constructing cement sidewalks and for a frame addition to the said building. Plans and specifications can be secured from the architect.

RECLAMATION WORK — $55,000. Santa Rosa, Sonoma Co., Cal. Engineer, J. E. Williams, Santa Rosa. Owners, Wilfred and Cotati Reclamation District. Plans and estimates of cost for draining something like 12,000 to 14,000 acres of low land in the Wilfred and Cotati Districts were considered by the committees having the project under consideration at a meeting held recently in Santa Rosa. The plans call for approximately 17 miles of main ditches, averaging from 5 to 10 feet deep and from 10 to 18 feet wide on the bottom. It is estimated that the cost will be less than $3.50 per acre. Further mention will be made of this work when action is taken on the plans as presented.

Contracts Awarded

IRRIGATION DITCH AND LATERALS AND PUMPS—Cost not stated. Colusa, Colusa Co., Cal. Engineer's name not given. Owners, Cheney Slough Irrigation District. Contractors, Baber & Son, excavation of main canal, 2½ miles. Contract price 11c per cubic yard. Charles Rouke, laterals and ditches, 12½c and 13½c per cubic yard. Byron Jackson Co., 357 Market street, S. F., 1 36-inch and 1 26-inch pump and 1 300 and 1 150 H. P. motor. Contract price not stated.

BRIDGE— Steel, $94,460.32. Marin-Sonoma Counties. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Healy-Tibbitts Co., 9 Main street, S. F. Contract price, $94,460.32.

FERRY SLIP REPAIRS $2,000. Martinez, Contra Costa Co., Cal. Engineer's name not given. Owners, Martinez Benicia Ferry Co. Contractors, Hyde-Harjes Co., 110 Market street, S. F. Contract price $2,000.

PUMPING STATION ADDITIONS AND REPAIRS Cost not stated. Martinez, Contra Costa Co., Cal. Engineer's name not given. Owners, Associated Oil Co. Contractors, Lacey Mfg. Co., L. A. Contract price not stated.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

PASSENGER STATION 1½ story and base, concrete, $25,000. Fresno, Fresno Co. Cal. Architect, Engineering Dept Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Extensive alterations will be made to the present station and an addition of 40 feet built on each end of the building. Interior of the old building will be rearranged and refinished. Tile floors and wainscot will be used. Steam heat and a vacuum cleaning system will be installed. Exterior will be faced with cement plaster. Plans are complete and bids will be called for at once.

HIGHWAY CONSTRUCTION — Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor Annear, Modesto. Owners, Stanislaus County. Plans have been completed for the permanent improvement of the four miles of McHenry road from the Modesto city limits to join the Salida-Oakdale lateral at the Bald Eagle ranch and for a mile of paved highway near Newman, and will present them at the next meeting of the Supervisors for their approval. Further mention will be made of this work when action is taken by the Supervisors.

ELECTROLIER SYSTEM — Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The Board of Trustees has adopted and published a resolution of intention to construct an electrolier street lighting system on each side of J street from Merced to Tuolumne street. Bids will be called for shortly.

STREET PAVING, CURBS AND GUTTERS—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The Board of Trustees have adopted a resolution of intention and will call for bids shortly for improving a portion of Santa Fe avenue with cement concrete curbs and gutters, cement concrete base and bithulithic wearing surface and corrugated iron culverts.

ROAD CONSTRUCTION — $3,175. Madera, Madera Co., Cal. Engineer, County Surveyor, Madera. Owners, Madera County. The bid of Tieslau Bros., of San Francisco, for the building of the Cochrum road in the Supervisorial district was rejected as being too high and the work was ordered done under the Day Labor system. The bid submitted was $3,175.

RESIDENCE — 1 story and base, frame, $1,700. Fresno, Fresno Co., Cal. Architect, none. Owner, F. C. Wilson, 2321 Hills street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine throughout. Some hardwood floors. Open fire place and

tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Fresno, Fresno Co., Cal. Architect, none. Owners, Reese & Atkins, 743 Weldon street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—20, 1 story and base, frame. Cost not stated. Modesto, Stanislaus Co., Cal. Architect, none. Owners, Pratt-Lowe Preserving Co., Everett Crane, Mgr., Modesto. Location, adjoining cannery site. Designed for workmen, each to contain four or five rooms and bath. Interior finished in pine and redwood. Exteriors covered with rustic and shiplap. Plans being prepared.

APARTMENT HOUSE—2 story and base, frame, $5,000. Modesto, Stanislaus Co., Cal. Architect, Albert Lapachet, 110 Sutter street, S. F. Owner, D. Lacazoppi. Will contain four suites of three rooms and bath. Interior finish pine. Some hardwood floors. Wall beds. Hot water supply. Exterior covered with cement plaster. Plans being prepared.

HIGHWAY CONSTRUCTION — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be opened on February 8th for grading and constructing culverts on Div. 11, Sec. 4, Caliente-Kernville road, being that portion lying between a point in the present traveled road from Havilah to Bodfish, length approximately one and two-tenths miles.

HIGHWAY IMPROVEMENT — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be opened on February 8th for grading, paving and construction of culverts on Div. 7, Sec. 2, Bakersfield-Taft road, being that portion lying between the Old River Store and the bridge over the inlet channel to Buena Vista Lake, length approximately 11 miles.

SEWER FILTER, ETC.—Cost not stated. Reedley, Fresno Co., Cal. Engineer, City Engineer, Reedley. Owners, City of Reedley. The State Board of Health has taken action concerning the disposal of sewage in the city of Reedley, and has sent a communication to the Clerk of the Trustees stating that the Board, at their next meeting, will grant a permit to the city to dispose of its sewage into Kings River in accordance with the recommendations of the director of the bureau of sanitary engineering, under date of January 5, 1916, which are: 1. That a modern sprinkling filter be constructed, as outlined in the report. 2. That at a river stage of three feet or less (flow not less than 10,000 second feet) no sewage should be permitted to enter the river direct without additional treatment to completely sterilize it. Further mention will be made of the work when action is taken by the Reedley officials.

RESERVOIR—Cost not stated. Oakdale, Stanislaus Co., Cal. Owners, Oakdale Irrigation District. Bids opened by the Oakdale Irrigation District for the construction of a large reservoir shows the Keystone Logging and Construction Co., low. The bids were laid over until the next meeting. Further mention will be made of this work when the contract is awarded.

DISTRIBUTING STATION — Reinforced concrete. $17,000. Hanford, Kings Co., Cal. Engineer, Engineering Dept. Union Oil Co., S. F. Owners, Union Oil Co. Within the next fifteen days the Union Oil Co. will commence the erection of tanks and buildings for their new distributing depot in this city. The improvement will be in charge of Frank Nevill of Fresno.

BRIDGE—Reinforced concrete. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor Cowell, Merced. Owners, Merced County. At the last meeting of the County Supervisors County Surveyor Cowell was instructed to prepare plans and specifications for a reinforced concrete bridge over the canal on the Cox Ferry road near Edenvale. Further mention will be made of this work when bids have been called.

Contracts Awarded

BRIDGES AND SIPHONS — Reinforced concrete, $4,770.80. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Contractor, M. E. Fernandes, Modesto. Contract price, $4,770.80.

STORE—1 story and base, brick, $5,000. Madera, Madera Co., Cal. Architects, Glass & Butner, Republican Bldg., Fresno. Owner, Con Breslin. Contractors, Hansen Contracting Co., Fresno. Contract price, $5,000.

ROAD CONSTRUCTION — $29,412.30. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners Kern County. Contractors, Mackie & McLean, 320 Market street, S. F., Div. 6, Sec. 1, McKittrick-Maricopa road. Contract price, $29,412.30.

STREET PAVING, ETC.—Cost as follows. Turlock, Stanislaus Co., Cal Engineer, City Engineer, Turlock. Owners, City of Turlock. Contractor, Pool, Turlock. Contract prices, grading, 1¼c per square foot; oiling, 1¼c per square foot; curbing 29c per lineal foot.

HIGHWAY CONSTRUCTION — Cost as follows. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractor, O. D. Johns, San Francisco. Contract prices: Item 1, 47c per cubic yard; item 2, $0.0222 per square foot; item 3, $0.0111 per square foot; item 5, 30c per lineal foot.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

ROAD IMPROVEMENT—$5,000. Oroville, Butte Co., Cal. Engineer, County Surveyor, Oroville. Owners, Butte County. The Board of Supervisors has rejected the bid of J. L. Merry Construction Co., Chico, for repairing and altering the Cohasset road. The company bid $6,289.90, which was $1,200 more than the engineer's estimate. County Engineer Martin C. Polk has been instructed to have the work done under the Day Labor system.

SEWER SYSTEM—$21,330.37. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Chambers & Heafey, Bacon Bldg., Oakland, submitted the low bid for sewer construction at $21,330.37. A contract has not been awarded. Other bids received were as follows: D. Bishop, Stockton, $24,093.64; Tibbetts-Pacific Co., S. F., $27,941.79; Frank S. Ostranger, S. F., $28,062.65; Marin Rock Co., San Anselmo, $21,989.41; Fred Meyers, Richmond, $22,460.36; F. C. McIntire, Stockton, $21,761.38; C. D. Vincent, Sacramento, $23,360.69; W. F. Edwards, Oakland, $23,474.98.

SEWER CONSTRUCTION — Cost not stated. Auburn, Placer Co., Cal. Engineer's name not given. Owners, Town of Auburn. The City Trustees are arranging for the preparation of plans for the new sewers to be constructed in Auburn. It is expected that the plans will be ordered at the next meeting. Funds for the work are now available.

IRRIGATION RESERVOIR—$168,000. Stockton, San Joaquin Co., Cal. Engineer, A. Griffin, Stockton. Owners, South San Joaquin Irrigation District. The directors of the South San Joaquin Irrigation District have, on the recommendation of the chief engineer of the district, rejected all bids received for the construction of the reservoir dam with the exception of that of the Keystone Construction Co. of Portland, Ore., who submitted the lowest bid at $168,000, which is slightly above the engineer's estimate. It is thought that this company will be awarded the contract.

BRIDGE—Steel and reinforced concrete, $153,480 and $170,776. Yuba City, Sutter Co., Cal. Engineer, County Surveyor L. M. Bunce, Yuba City, associated with Engineer Earle L. Cope, First National Bank Bldg., S. F. Owners, Sutter County. At the last meeting the engineers presented a report on the preliminary surveys for the proposed Nicolaus bridge. The report was ordered filed until the next meeting when the matter of constructing the bridge will be taken up.

BRIDGE—Reinforced concrete. Cost not stated. Folsom, Sacramento Co., Cal. Engineer, County Surveyor, Sacramento. Owners, Sacramento County. Bids will be opened on January 28th at 2 p. m. for construction of a bridge across Figuerore street ravine.

BRIDGE—Steel and reinforced concrete. Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer Compton, Stockton. Owners, City of Stockton. Plans prepared by City Engineer Compton for a steel and concrete bridge over Mormon Channel at San Joaquin street were taken under advisement by the city officials at their last meeting. General Manager F. W. Webster of the Stockton Electric Railroad Co. was called into the discussion to determine what portion of the cost of the bridge should be borne by the railroad company. The bridge as planned would be 200 feet long and 70 feet wide, carried on reinforced concrete piers. The City Council is entirely in favor of its construction.

DRAINAGE SYSTEM — $5,000. Marysville, Yuba Co., Cal. Engineer, Engineering Department Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. The Southern Pacific Co. will spend $5,000 in improving drainage conditions on the eastern side of its right of way in the northern part

of this city, according to information made public from the engineering offices of the company.

IRRIGATION DISTRICT—Cost not stated. Chico, Butte Co., Cal. Engineer's name not given. Owners, Paradis Irrigation District. The plans of the Paradis Irrigation District in Butte County have received the approval of the State Engineer, and the election for the formation of the district has been set for March 3rd by the County Supervisors.

WATER PUMPING PLANT—1 story, reinforced concrete, $13,000. Eureka, Humboldt Co., Cal. Architect, Edmund J. Burke, Eureka. Owners, City of Eureka. Bids are now being taken and will be opened on February 1st for the construction of a one-story pumping plant and for the installation of mechanical equipment. Further information can be secured from the architect or City Clerk.

CHURCH ALTERATION — Frame, $6,000. Redding, Shasta Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Roman Catholic Church, Father Hayes. Work will consist of interior and exterior alterations. Art glass and marble and tile work. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

HOTEL—3 story and base, brick, $20,000. Stockton, San Joaquin Co., Cal Architect, F. Warner, San Joaquin Bldg., Stockton. Owner, Mrs. Flanagan, 129 East Magnolia street, Stockton. Location, east El Dorado between Lafayette and Washington streets. Will contain stores on the first floor and modern hotel rooms above. Interior finish pine. Steam heat and hot water system. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

NURSES HOME—2 story and base, reinforced concrete, $40,000. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Plans for the first unit of a group of buildings to be erected at a cost of $400,000 have been completed and are now out for figures. Bids will be opened on February 17th. Plans can be secured from the architect.

Contracts Awarded.

BRIDGES — Timber and concrete. Cost as follows. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. Contractor, West Side Construction Co., Los Banos bridge No. 41, District No. 4, W. H. McElroy, Merced, bridge No. 42, $1,655 and No. 43, $885.

ROAD IMPROVEMENT — Cost as follows. Red Bluff, Tehama Co., Cal. Engineer, County Surveyor, Red Bluff. Owners, Tehama County. Contractors, J. C. Trent and J. B. Peaslee, Red Bluff. Improvement of portion of Paynes Creek road. Contract price, $2.38 per cubic yard.

HIGHWAY CONSTRUCTION—Cost as follows. Sacramento, Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Taylor & Berliner, Willows, Cal., Tehama County Routes 7 and 3, $61,282. A. C. McLean Construction Co., 320 Market street, S. F., Div. 3, Route 17B, Sec. A., $36,224.80; Route 17, Sec. B, $39,814.60

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGES—Steel and reinforced concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor Petit, Ventura. Owners, Ventura County. Plans and specifications have been completed by County Surveyor Petit and have been presented to the Supervisors for the proposed Casitas bridge over the Ventura River. The plans call for a span for a steel bridge 200 feet long on the old piers, which are to be raised. It is estimated the structure will cost $9,000. La Crosse bridge plans, Sespe bridge plans and the plans for spans for the Saticoy bridge are already for action by the Supervisors, who will probably take up the matter of advertising for bids for all these structures at the present session. Further mention will be made of this work when the bids have been called.

PILE TRESTLE BRIDGE—Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. County Road Commissioner Joyner has recommended to the Board of Supervisors that all bids received for constructing a pile trestle bridge on Mountain avenue between School street and Burr avenue, and on Palm avenue between Michigan avenue and Cross street, be rejected and the work done by the county road department by force account.

POWER DISTRIBUTING SYSTEM—Cost not stated. Los Angeles, Cal. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. The City Council has finally decided to install and operate an electric distributing system for the benefit of its citizens who are to be served with aqueduct electric light and power. Plans and specifications for the work are now nearing completion and will be ready for adoption shortly. The cost of two distributing systems, as planned, it is estimated will run about $725,000. There will be two stations, one in the Garvanza district and the other in the Hollywood, both of which will be fed by a central station on the banks of the Los Angeles River. Further mention will be made of this work.

WATER PIPE—Cost not stated. Pasadena, Los Angeles Co., Cal. Engineer, City Engineer, Pasadena. Owners, City of Pasadena. Bids are now being taken by the City Commission for new cast iron pipe for the city water department. Three thousand feet of 4-inch pipe will be bought to have in stock, and 36 feet of 20-inch pipe will be purchased to use on the outlet to the new northwest district reservoir. Further information may be had from the City Clerk or Engineer at Pasadena.

CHURCH—2 story and base. Class A construction, $300,000. Los Angeles, Cal. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, First Methodist Episcopal Church. Location, southwest corner 8th and Hope streets, covering an area of 195 by 157 feet. Complete steel frame, exterior walls of brick and concrete, faced with cement plaster and pressed brick. Interior finish pine, hardwood and ornamental plaster. Central heating system, vacuum cleaning and modern ventilation. Art glass windows. Plans to be completed within six weeks and figures called.

HOTEL ADDITION 3 story and base, reinforced concrete, $100,000. Santa Barbara, Santa Barbara Co., Cal. Architect, Arthur P. Benton, 111 North Spring street, L. A. Owners, The Arlington Hotel Co. The new addition will be in the form of a wing to the present structure and will be of fireproof construction, containing 100 rooms and baths. Interior finish pine and hardwood. Steam heating system extended from present power plant. Exterior faced with cement plaster. Plans being prepared.

HOTEL AND STORES—5 story and base, brick. Cost not stated. Los Angeles, Cal. Architect, Richard D. King, Van Nuys Bldg., L. A., Owner, J. A. Hill. Location, Figueroa between 2nd and 3rd streets, covering an area of 150 by 175 feet with one story garage in rear. Will contain nine stores and 50 rooms and baths. Interior finish pine. Steam heat, hot water system. Bath rooms composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work by Day Labor. Excavation started.

FREE CLINIC—1 and 2 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, Arthur B. Benton, 111 North Spring street, L. A. Owner, O. T. Johnson for Parent Teachers' Association. Location, Castelar street, covering an area of 50 by 120 feet. Will contain offices, operating rooms, waiting rooms and dispensary. Interior finish pine and hardwood. Reinforced concrete walls and roof slabs. Steam heat and hot water supply. Exterior faced with cement plaster. Plans being prepared.

LIBRARY—1 story and base, hollow tile, $30,000. East Los Angeles, Cal. Architects, Lester H. Hibbard, and H. B. Cody, Marsh-Strong Bldg., L. A. Owners, City of Los Angeles. Location, southeast corner 26th and Workman streets, covering an area of 96 by 96 feet. Will contain reading rooms, work rooms, stack room and office on the main floor and a large auditorium in the basement. Interior finish pine and hardwood with tile and maple

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floors. Central heating system and vacuum cleaning. Metal book stacks. Exterior faced with cement plaster. Revised plans complete and figures to be called for at once.

SCHOOL—4 story and base. Class A construction, $400,000. Los Angeles, Cal. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. Location, Knoll street between Wilshire and Pico. Main portion of building 344 by 70 feet, with two two-story wings each 67 by 80 feet. Reinforced concrete foundations, walls and floors. Concrete stairways, hollow tile partitions. Metal window sash and frames. Steam heat, oil burning system, vacuum cleaning and program clocks. Exterior faced with pressed brick. Plans complete and figures being taken. Bids opened on February 17th. Separate bids for general construction, plumbing, heating, electric work and program clocks.

SCHOOL GROUP—2, 3 story and base reinforced concrete, $250,000. Los Angeles, Cal. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, St. Vincent's College. Location, West 16th street between Vermont and Normandie. Two main buildings will cover areas of 75 by 170 feet. Interior finish arate building. Exteriors faced with pressed brick. Plans being prepared. pine and hardwood with maple floors. Central heating system housed in sep-

Contracts Awarded.

PAVING, ETC.—$73,000. Huntington Beach, Orange Co., Cal. Engineer, City Engineer, Huntington Beach. Owners, City of Huntington Beach. Contractor, Leigh Garnsey, Central Bldg., L. A. Contract price, $73,600.

WAREHOUSE—5 story and base, reinforced concrete, $400,000. Los Angeles, Cal. Architects, Moores & Durford, Otis Bldg., Chicago, Ill. Owners, Panama-Pacific Warehouse Co. Contractors, Stone & Webster, Boston, Mass. Contract price, $400,000.

CLUB HOUSE—3 story and base. Class C construction, $26,000. San Diego, San Diego Co., Cal. Architects, Will Sterling Hebbard & Carlton M. Winslow, San Diego. Owners, University Club. Contractors, F. O. Engstom Co., 5 th and Seaton streets, L. A. Contract price, $26,000, exclusive of plumbing and heating.

SCHOOL—2 story and base, brick, $30,000. Los Angeles, Cal. Architects, Train & Williams, Exchange Bldg., L. A. Owners, City of Los Angeles. Contractor, A. S. O'Neil, Lankershim Bldg., general construction, $28,800. Lohman Bros., 105 East Second street, plumbing, $1,698. Hoagland-Lakin Electric and Engineering Co., heating and ventilating, $2,447.

SCHOOL—2 story and base, reinforced concrete, $76,400. Los Angeles, Cal. Architect, Edgar H. Cline, Brockman Bldg., L. A. Owners, City of Los Angeles. Contractors, John Simpson Co., Baker-Detwiler Bldg., L. A. Contract price, $76,100.

PAVING, GUTTER AND CULVERTS —$45,000. Ontario, San Bernardino Co., Cal. Engineer, City Engineer, Ontario. Owners, City of Ontario. Contractors, S. & C. Contracting Co., Washington Bldg., L. A. Contract price, $45,000, approximate.

SEATTLE AND WASHINGTON

BRIDGE—Steel and reinforced concrete, $300,000. Seattle, Wash. Engineer Rapp, City Department of Engineering, Seattle. Owners, City of Seattle. Plans and specifications for the proposed steel bridge to be constructed over the Lake Washington Canal at 10th avenue N. E. have been approved and bids will be called for in ten days. The structure will be of the double bascule type. It will have a clear span of 175 feet and a width of 44 feet, which provides for a double track roadway and two 6-foot sidewalks. There will 1200 feet of temporary wooden approach. The concrete piers will cost $100,000 and the superstructure about $200,000. Further mention will be made of this work when bids have been called.

NATATORIUM—2 story and base, steel and reinforced concrete, $150,000. Seattle, Wash. Architect, B. Marcus Pretica, Pantages Theatre Bldg., Seattle. Owner, C. D. Stimpson. Location, Second avenue and Lenora. Will contain large swimming pool, tub, shower and Turkish baths. Interior finish pine and tile. Cement floors. Terra cotta tile lining for tanks. Special mechanical equipment. Steam heat. Exterior faced with cement plaster. Plans complete and figures being taken for general construction. Figures for plumbing, heating and electric work to be taken later.

COMPRESSOR PLANT—1 story and base, reinforced concrete, $30,000. Seattle, Wash. Engineer, J. R. West, Port of Seattle Commission, Seattle. Owners, Port of Seattle Commission. Location East Waterway, covering an area of 100 by 100 feet. Construction fireproof. Special machinery not included in estimated cost. Plans being prepared.

STORES AND LOFTS—2 story and base, brick and concrete, $55,000. Tacoma, Wash. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, Frye Packing Co. Location, 12th and Broadway, covering an area of 60 by 120 feet. Will contain stores and offices and light lofts. Interior finish pine and redwood. Maple floors. Patent store fronts. Elevator service and steam heat. Exterior faced with pressed brick. Plans being prepared.

STORES, OFFICES AND CLUB ROOMS—9 story and base. Class A construction, $300,000. Seattle, Wash. Architect, A. Warren Gould, American Bank Bldg., Seattle. Owner, James Moses, leased to Artic Club. Location, northeast corner 3rd avenue and Cherry, covering an area of 111 by 120 feet. Reinforced concrete frame, floors and roof slabs. Besides the quarters of the Artic Club, which will be elaborately finished, plans provide for 120 modern offices and about 50 hotel rooms. Steam heat, elevator service, vacuum cleaning and hot water supply. Exterior faced with cut stone and terra cotta. Plans complete and figures being taken. Bids close January 27th.

Contracts Awarded.

APARTMENT HOUSE—3 story and base, brick, $30,000. Seattle, Wash. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owner, Mrs. H. Schneider. Contractors, Albin & Huskamp, 1719 12th avenue, Seattle. Contract price, $30,000.

SCHOOL—4 story and base, reinforced concrete. $93,374. Bellingham, Wash. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, City of Bellingham. Contractors, Hedlick, Baumeister & Klueter, Bellingham. Contract price, $93,374.

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Developments — 503 Grant Bldg.
Construction — Los Angeles, Cal.

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Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
93	Cath Archb	Smith	750
94	Cox	Cox	2800
95	Greenhood	G G Iron	2300
96	Same	New Era Marble	1800
97	Same	Otis Elevator	1625
98	Same	Pacific Mfg	——
99	Same	Barman	1200
100	Same	Asher	1000
101	Brockie	Frisk	600
102	Duffey	Malloch	7096
103	Karski	Moller	68871
104	Hart	Pasqualetti	2100
105	Heyman	Heyman	3750
106	Nelson	Nelson	2800
107	Garibaldi	Garibaldi	3000
108	Nielson	Nielson	2000
109	Fritz	Fritz	3000
110	Ciampa	Dioguardi	5400
111	Cavagnaro	Moriconi	9532
112	Van Erp	Chase	6060
113	Reite	Lacey	19350
114	Bollman	Coleman	3369
115	Same	Pac Fire Extg	7450
116	Pockman	Pockman	3000
117	Same	Same	3000
118	Same	Same	3000
119	Same	Same	3000
120	Same	Same	3000
121	Same	Same	3000
122	Same	Same	3000
123	Same	Same	3000
124	Yager	Yager	5500
125	Same	Same	5500
126	Nelson	Nelson	2900
127	Same	Same	2900
128	Ryan	Ryan	1250
129	Sequoia	Hansbrough	400
130	Gensler	Danman	500
131	Hearst	Mahony	450
132	Reno	Reno	3000
133	Kiernan	O'Brien	5000
134	Bollman	Pacific Iron	1310
135	Farber	Anderson	3500
136	Paines	Rushton	500
137	Sullivan	Sullivan	1406
138	Marsh	Peterson	950
139	Plenz	Anderson	1155
140	Baldwin	Howell	1000
141	Hearney	Hamill	3250
142	Harrison	Rassmussen	1000
143	Portola Louvre	Brumfield	400
144	Rosenfeld	Braunton	450
145	Knaup	Knaup	600
146	Erikson	Erikson	1800
147	Johnson	Johnson	500
148	O'Brien	O'Brien	2700
149	Dennegan	Walker	400
150	Roth	Roth	500
151	Borzone	Bovyer	1000
153	R Ct Archb	Chisholm	14695
154	Hale	Macdonald	13000
155	Pope	Bos	3300
156	Workman	Kiernan	2354
157	St. Francis Rlty	Trost	12297
158	McKenzie	Prout	17800

WOOD PANELING

(93) NE COLUMBUS AVE & VALLEJO. Wood paneling in vestibule of church

Owner.....Roman Catholic Archbishop of S. F., 1100 Franklin St., San Francisco.

Architect...Chas. J. I. Devlin, Pacific Bldg., San Francisco.

Contractor..J. W. Smith, 180 Jessle, San Francisco.

COST, $750

FRAME DWELLING

(94) W FOURTH AVE 195-9½ S Parnassus Ave. Two-story and basement frame dwelling.

Owner.....Ward Cox, 239 Hugo, S. F.

Architect...Owner.

Contractor..Cox Bros. 401 Lincoln Way San Francisco.

COST, $2800

BRICK APARTMENTS

(95) NW BUSH AND POWELL. Steel work for four-story and basement brick (31) apartments and stores.

Owner.....E. J. Greenhood, 45 Kearny San Francisco.

Architect...J. Cahen, 45 Kearny, S. F.

Contractor..Golden Gate Iron Works, 1541 Howard, S. F.

COST, $2300

(96) FOUNDATION WORK ON ABOVE.

Contractor..New Era Marble & Concrete Co.

COST, $1800

NOTE:—Foundation started.

(97) ELEVATOR WORK ON ABOVE.

Contractor..Otis Elevator Co., Beach and Stockton, S. F.

COST, $1625

(98) MILL WORK ON ABOVE.

Contractor..Pacific Manufacturing Co., 177 Stevenson, S. F.

COST, $——

(99) PAINTING ON ABOVE.

Contractor..Jack Barman.

COST, $1200

(100) ELECTRIC WORK ON ABOVE.

Contractor..J. W. Asher Elec. Co., 2513 Sacramento, S. F.

COST, $1000

FRAME BUILDING

(101) SW JONES AND JACKSON S 37-6xW 82-6. Palnting, tinting, varnishing, enameling, papering, etc., for three-story frame building.

Owner.....W. S. and Annie Brockie.

Architect...Alexander A. Cantin, 68 Post, San Francisco.

Contractor..C. J. Frisk & Co., 3819 23d, San Francisco.

Filed Jan. 8, '16. Dated Dec. 6, '15.

75% of work completed	$200
Completed and accepted	200
Usual 35 days	200
TOTAL COST,	$600

Bond, $300. Surety, Massachusetts Bonding & Insurance Co. Limit, as fast as possible. Forfeit, none. Plans and specifications filed.

FRAME APARTMENT FLATS

(102) SW BROADWAY AND JONES — 22-9x60. All work for three-story and basement frame building (3 apartment flats.)

Owner.....Edward J. Duffey.

Architect...None.

Contractor..J. S. Malloch, 110 Jessle, San Francisco.

Filed Jan. 8, '16. Dated Jan. 5, -6.

Frame up & roof sheathing on	$1774
Brown coated	1774
Completed and accepted	1774
Usual 35 days	1774
TOTAL COST,	$7096

Bond, $3547. Surety, Guardian Casualty Co. Limit, 90 days from Jan. 8, 1916. Forfeit, none. Plans and specifications filed.

CLASS "A" THEATRE

(103) W POLK 112-6 N California N 25 W 168-9 S 137-6 E 75 N 87-6 E 12-6 N 25 E 81-3. All work for Class "A" theatre building.

Owner.....Abraham C. Karski, Isaac Oppenheimer and Frank Levy, Pacific Bldg., S. F.

Architect...Bernard J. Joseph, New Call Bldg., S. F.

Contractor..R. W. Moller, 185 Stevenson, San Francisco.

Filed Jan. 10, '16. Dated Jan. 5, '16.

Grading and concrete piers done	$ 3,340
Steel frame up and plumbed	13,325
Steel work rivited, outside walls up and main roof on	12,225
Electric condnits and rough plumbing in and concrete slabs and balcony and concrete stairs in	6,660
Lath and plaster completed	8,000
Completed and accepted	8,100
Usual 35 days	17,221
TOTAL COST,	$68,871

Bond, none. Limit, 180 days. Forfeit, none. Plans and specifications filed.

FRAME MARKET BUILDING

(104) NW CALIFORNIA AND 25TH Ave 32-6x74. All work for two-story frame market building.

Owner.....Mark I. Hart, 2840 California, San Francisco.

Architect...None.

Contractor..J. Pasqualetti, 785 Market, San Francisco.

Filed Jan. 10, '16. Dated Jan. —. '16.

Roof on	$ 525
Completed and accepted	1050
Usual 35 days	525
TOTAL COST,	$2100

Bond, $1050. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

FRAME DWELLING

(105) SE CABRILLO & FIFTEENTH Ave. Two-story and basement frame dwelling.

Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.

Architect...None.

Day's work. COST, $3750

FRAME DWELLING

(106) W FIFTEENTH AVE 25 S Balboa. Two-story and basement frame dwelling.

Owner.....Emil Nelson, 244 Rivoli, San Francisco.

Architect...None.

Day's work. COST, $2800

FRAME FLATS

(107) NO. 2814 GOUGH. Two-story and basement frame (2) flats.

Owner.....John Garibaldi, 1628 Union, San Francisco.

Architect...Louis Mastropasqua, 580 Washington, San Francisco.

Day's work. COST, $3000

FRAME FLATS
(108) W HAWES 25 S Ingerson. Two-story and basement frame (2) flats.
Owner.....N. M. Nielson, 917 Ingerson, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME FLATS AND STORE
(109) S GEARY 64 W Nineteenth Ave. Two-story and basement frame (2) flats and store.
Owner.....Valentine Fritz, 2022 Clement, San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME STORE AND FLATS
(110) N BRAZIL AVE 50 W Edinburgh W 25xN 100. All work except foundation and concrete work for three-tory and basement frame store and flats.
Owner.....Gaetano Ciampa, 414 Madrid, San Francisco.
Architect ...Chas. Fantoni, 916 Kearny San Francisco.
Contractor..Luigi Dioguardi, 715 Garden, San Francisco.
Filed Jan. 11, '16. Dated Dec. 9, '15.
Enclosed and roofed.....$1350
Brown coated and front elevation plastered 1350
Completed and accepted..... 1350
Usual 35 days..... 1350
TOTAL COST, $5400
Bond, $2700. Sureties, N. Capurro and Guiseppo Panella. Limit, 90 days. Forfeit, $3.50. Plans and specifications filed.

FRAME FLATS
(111) W TAYLOR 62-6 S Lombard S 50xW 77-6. All work for two three-story and basement frame buildings (flats).
Owner.....Luigi Elia and Eugenio Cavagnaro and Camillo Bugatto, 2029 Powell, S. F.
Architect ...L. Traverso, 854 Union, San Francisco.
Contractor..G. Moriconi and G. Passarino, 2123 Polk, S. F.
Filed Jan. 11, '16. Dated Jan. 8, '16.
Enclosed and roof on.....$2383
Brown coated 2383
Completed and accepted..... 2383
Usual 35 days..... 2383
TOTAL COST, $9532
Bond, $4766. Sureties, F. Berti and N. Capurro. Limit, 90 days from Jan. 8, 1916. Forfeit, none. Plans and specifications filed.

(112) S VALLEJO 114-7 W Hyde 22-11 x137-6. All work except electric fixtures for two-story and basement frame flats.
Owner.....Dick and Mary Van Erp, 1104 Sutter, S. F.
Architect ...None.
Contractor..John G. Chase Jr., 463 31st Ave., San Francisco.
Filed Jan. 11, '16. Dated Jan. 11, '16.
Frame up $1010
Enclosed 1010
Brown coated 1010
White coat plaster on..... 1010
Completed 1010
Usual 35 days..... 1010
TOTAL COST, $6060
Bond, $3000. Surety, The Aetna Accident & Liability Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

PLUMBING WORK
(113) S MISSION 117-6 W Mary. Plumbing work for apartments.
Owner.....J. B. Reite, 110 Jessie, San Francisco.
Architect ...None.
Contractor..E. V. Lacey, 249 9th, S. F.
Filed Jan. 11, '16. Dated Jan. 10, '16.
Progressive payments of..... 75%
5 days after completion.....Balance
TOTAL COST, $19,350
Bond, none. Limit, 150 days from Jan. 12, 1916. Forfeit, none. Plans and specifications, none.

PLUMBING
(114) SE FOURTH AND BRANNAN 137-6 on Brannan and 275 on Fourth. Plumbing for three-story and basement reinforced concrete warehouse.
Owner.....The John Bollman Co., Battery and Commercial, S. F. by Lange & Bergstrom, Sharon Bldg., S. F.
Architect ...Chas. Peter Weeks, Mutual Bank Bldg., S. F.
Contractor..Alexander Coleman, 706 Ellis, San Francisco.
Filed Jan. 11, '16. Dated Jan. 3, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $3369
Bond, limit, forfeit, none. Plans and specifications, none.

(115) AUTOMATIC SPRINKLER SYSTEM (Standard Grinnell Sprinkler Equipment) on above.
Contractor..Pacific Fire Extinguisher Co., 507 Montgomery, S. F.
Filed Jan. 11, '16. Dated Dec. 13, '15.
Payments same as above.....
TOTAL COST, $650 profit on a cost of $7450.
Bond, limit, forfeit, none. Plans and specifications, none.

FRAME DWELLING
(116) E FORTIETH AVE 470 N Geary. One-story and basement frame dwlg.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(117) E FORTIETH AVE 410 N Geary. One-story and basement frame dwlg.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(118) E FORTIETH AVE 350 S Geary. One-story and basement frame dwlg.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(119) E FORTIETH AVE 290 N Geary. One-story and basement frame dwlg.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(120) W THIRTY-NINTH AVE 470 N Geary. One-story and basement frame dwelling.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(121) W THIRTY-NINTH AVE 410 N Geary. One-story and basement frame dwelling.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(122) W THIRTY-NINTH AVE 290 N Geary. One-story and basement frame dwelling.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(123) W THIRTY-NINTH AVE 350 N Geary. One-story and basement frame dwelling.
Owner.....Pockman & Co., 37th Ave. and Geary, S. F.
Architect ...None.
Day's work. COST, $3000

FRAME FLATS
(124) W TWENTY-FIRST AVE 90 S California. Two-story and basement frame (2) flats.
Owner.....Grace Yager, 1539 Clay, San Francisco.
Architect ...None.
Contractor..W. W. Yager, 1239 Polk, San Francisco.
COST, $5500

FRAME FLATS
(125) W TWENTY-FIRST AVE 115 S California. Two-story and basement frame (2) flats.
Owner.....Grace Yager, 1539 Clay, San Francisco.
Architect ...None.
Contractor..W. W. Yager, 1239 Polk, San Francisco.
COST, $5500

FRAME DWELLING
(126) NE BALBOA AND NINETEENTH Ave. Two-story and basement frame dwelling.
Owner.....Nelson Bros., 515 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING
(127) E NINETEENTH AVE 25 N Balboa. Two-story and basement frame dwelling.
Owner.....Nelson Bros., 515 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING
(128) S SHAFTER 150 W Jennings. One and one-half-story and basement frame dwelling.
Owner.....Geo. Ryan, 2844 Army, San Francisco.
Architect ...None.
Day's work. COST, $1250

BRICK MANTEL
(129) NO. 1725 WASHINGTON. Install brick mantel.
Owner.....Sequoia Club, Premises.

Architect ...C. C. McDougall, Russ Bldg., San Francisco.
Contractor..Hansbrough Johnston Co., Monadnock Bldg., S. F.
COST, $400

ALTERATIONS
(130) NOS. 39-41 ELLIS. Alter restaurant.
Owner.....Edgar J. Gensler, 3312 Fillmore, San Francisco.
Architect ...None.
Contractor..Fred Danman.
COST, $500

ALTERATIONS
(131) SE MARKET AND THIRD. Erect partitions and alter store.
Owner.....Mrs. P. Hearst, Hearst Bldg., San Francisco.
Architect ...None.
Contractor..Mahony Bros., Crocker Bldg., San Francisco.
COST, $450

REPAIRS
(132) NO. 1685 SUTTER. General repairs for dwelling damaged by fire.
Owner.....H. G. Reno, 4342 San Pablo Ave., Oakland.
Architect ...None.
Day's work. COST, $3000

FRAME FLATS
(133) E FOLSOM 77 S 13th. All work for two-story frame flats.
Owner.....Thos. F. Kiernan, 1754 Mission, San Francisco.
Architect ...Theodore Lenzen, Humboldt Bank Bldg., S. F.
Contractor..Kiernan & O'Brien, Inc., 1754 Mission, San Francisco
Filed Jan. 12, '16. Dated Jan. 11, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $5000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

CAST AND WROUGHT IRON WORK
(134) SE FOURTH AND BRANNAN 137-6 on Brannan and 275 on Fourth. Cast and wrought iron work for 3-story and basement reinforced concrete warehouse.
Owner.....The John Bollman Co., Commercial & Battery, S. F. by Lange & Bergstrom, Sharon Bldg., S. F.
Architect ...Charles Peter Weeks, Mutual Bank Bldg., S. F.
Contractor..Pacific Iron Works, 1155 67th, Oakland.
Filed Jan. 11, '16. Dated Jan. 7, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1310
Bond, limit, forfeit, none. Plans and specifications, none.

FRAME FLATS
(135) W HARRIET 200-6 N Folsom. Two-story and basement frame (2) flats.
Owner.....Morris Farber, 146 Russ, San Francisco.
Architect ...None.
Contractor..Wm. J. Anderson, 392 5th, San Francisco.
COST, $3500

ADDITION
(136) NO. 3941 SACRAMENTO. Add bath and porch.
Owner.....L. Palmes, Premises.
Architect ...None.
Contractor..C. A. Rushton, 751 9th Ave., San Francisco.
COST, $500

FRAME DWELLING
(137) S CAMPBELL 50 W Rutland. One-story and basement frame dwlg.
Owner.....Daniel Sullivan, 101 Campbell Ave., San Francisco.
Architect ...None.
Day's work. COST, $1400

FRAME STORE
(138) W RAIL ROAD AVE 100 S 14th. One-story frame store.
Owner.....F. L. Marsh, 324 Berlin, San Francisco.
Architect ...None.
Contractor..Antone Petersen.
COST, $950

ALTERATIONS
(139) NOS. 341, 345 HARRIET. Alter and minor changes for apartments.
Owner.....Mrs. Sophie Plenz, 1114 Octavia, San Francisco.
Architect ...None.
Contractor..O. A. Anderson, 1874 Greenwich, San Francisco.
COST, $1155

ALTERATIONS
(140) NE THIRD & TWENTY-FIRST. Alter and add for saloon.
Owner.....Baldwin & Howell, 318 Kearny, San Francisco.
Architect ...None.
Day's work. COST, $1000

FRAME RESIDENCE
(141) W TWENTIETH AVE 125 N Balboa N 25xW 120. All work for two-story and basement frame residence.
Owner.....Hugh T. Hearney, Burlingame, Cal.
Architect ...None.
Contractor..Thos. Hamill, 5535 Geary, San Francisco.
Filed Jan. 13, '16. Dated Jan. 13, '16.
Frame up and roof on.....$800
Brown coated 800
Completed and accepted..... 800
Usual 35 days..... 850
TOTAL COST, $3250
Bond, none. Limit, 70 days. Forfeit, plans and specifications, none.

ALTERATIONS
(142) NO. 1 EIGHTEENTH AVE. Alter residence.
Owner.....M. C. Harrison, Merchants' Exchange Bldg., S. F.
Architect ...Chas. S. Kaiser, 57 Post, San Francisco.
Contractor..A. Rassmussen.
COST, $1000

ELECTRIC SIGN
(143) NO. 18 POWELL. Electric sign.
Owner.....Portola Louvre Cafe, Prem.
Architect ...None.
Contractor..Brumfield Elec. Sign, 18 7th, San Francisco.
COST, $400

ALTERATIONS
(144) E FILLMORE 108 S Ellis. Alter meat store house.
Owner.....John Rosenfeld' Sons, 1024 Merchants' Exchange Bldg., San Francisco.
Architect ...None.
Contractor..Harold Braunton, 18 Stevenson, San Francisco.
COST, $450

FRAME DWELLING
(145) E MILTON 100 N Bosworth. One story and basement frame dwelling.
Owner.....Carl Knaup, 45 Burnside Ave., San Francisco.
Architect ...None.
Day's work. COST, $600

FRAME DWELLING
(146) SE ATHENS 125 SW Excelsior. One and one-half-story and basement frame dwelling.
Owner.....Gustaf Erikson, 319 Madrid San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(147) E CONGO 251 N Joost. One-story frame dwelling.
Owner.....Otto Johnson, 2079 Market, San Francisco.
Architect ...None.
Day's work. COST, $500

FRAME RESIDENCE
(148) S LAWTON 70 W 11th Ave. Two-story and basement frame residence.
Owner.....Arthur J. O'Brien, 1331 10th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2700

ALTERATIONS
(149) N McALLISTER 68 W Van Ness Ave. Alter for grill.
Owner.....Dennegan & Son, Pacific Bldg., San Francisco.
Architect ...O'Brien Bros., 240 Montgomery, S. F.
Contractor..A. W. Walker, 251 Kearny, San Francisco.
COST, $400

ADDITION
(150) NO. 1530 FILLMORE. Add one-story frame to store.
Owner.....A. Roth, Premises.
Architect ...None.
Day's work. COST, $500

REPAIRS
(151) NOS. 2107-09 JONES. Repair fire damage.
Owner.....Mrs. E. Borzone, 2202 Jones San Francisco.
Architect ...None.
Contractor..Boyyer & Sons, 2407 California, San Francisco.
COST, $1000

CLASS "A" BUILDING
(152) SW DAVIS AND CALIFORNIA W 87-6xS 137-6. All work for three story Class "A" building.
Owner.....California Realty Co.
Architect ...O'Brien Bros., 240 Montgomery, San Francisco.
Contractor..J. H. Hjul, Mechanics' Institute Bldg., S. F.
Filed Jan. 15, '16. Dated Jan. 14, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $150,000
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME CHURCH
(153) SE EIGHTEENTH AND HOWARD E 122-6xS 85. Carpenter, elec-

trical, plumbing and plastering for frame and stucco church building.
Owner..... Roman Catholic Archbishop of S. F., 1160 Franklin, San Francisco.
Architect...Leo J. Devlin, Pacific Bldg San Francisco.
Contractor..R. A. Chisholm, 180 Jessie, San Francisco.
Filed Jan. 14, '16. Dated Jan. 11, '16.
On 15th of each month commencing January 15, 1916..... 75%
Usual 35 days..... 3700
TOTAL COST, $14,695
Bond, $7500. Sureties, A. F. Mahoney and P. J. Brickley. Limit, as fast as possible. Forfeit, $5. Plans and specifications filed.

CONCRETE ADDITION
(154) N STEVENSON 175 W Fifth. One-story and basement reinforced concrete addition to department store
Owner.....Hale Bros., Inc., Market and 5th, San Francisco.
Owner.....Hale Bros., Inc., Premises.
Architect...Reid Bros., California-Pacific Bldg., S. F.
Contractor. Mardonald & Kahn, Rialto Bldg., San Francisco.
COST, $13,000

ALTERATIONS
(155) NW CALIFORNIA AND VAN Ness Ave W 159-4xN 69-3. Alterations and additions to building.
Owner.....Pope Estate Co., Kohl Bldg., San Francisco.
Architect...None.
Contractor..George A. Bos, Hearst Bldg., San Francisco.
Filed Jan. 14, '16. Dated Jan. 12, '16.
Completion of concrete work..$2000
Completed and accepted..... 475
Usual 35 days, balance..... 25%
TOTAL COST, $3300
Bond, $1650. Surety, Massachustess Bonding & Insurance Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

CONCRETE & FRAME FACTORY
(156) SW SEVENTH 175-2 — Harrison — 125 SW 85 NW 25 NE 5 NW 75 SW 80 NW 25 NE 160. Plumbing, sewering, tanks, hose reels, tiling, gas piping, etc., for one-story and mezzanine reinforced concrete and frame factory building.
Owner.....Workman Packing Co., 180 Erie, San Francisco.
Architect...Smith O'Brien, Humboldt Bank Bldg., San Francisco.
Contractor..Kiernan & O'Brien, 1754 Mission, San Francisco.
Filed Jan. 14, '16. Dated Jan. 10, '16.
Sewering & rough plumbing in..$800
Completed and accepted..... 365
Usual 35 days..... 589
TOTAL COST, $2354
Bond, $1177. Sureties, G. F. Bernard and Jas. H. Pinkerton. Limit, March 25, 1916. Forfeit, none. Plans and specifications filed.

BRICK STORES
(157) NW GEARY AND MASON. All work except roof for two-story brick building (stores).
Owner.....Saint Francis Realty Co.
Architect...W. H. Weeks, 75 Post, San Francisco.
Contractor..Robt Trost, 26th and Howard, San Francisco.
Filed Jan. 14, '16. Dated Jan. 10, '16.
2nd floor joists on.....$3074.25
Ready for plaster..... 3074.25
Completed and accepted..... 3074.25
Usual 35 days..... 3074.25
TOTAL COST, $12,297.00
Bond, $6148.50. Surety, Pacific Coast Casualty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME APARTMENT
(158) SE BROADWAY AND FILLmore 35 on Broadway and 100 on Fillmore. All work except gas and electric fixtures, shades, stoves, linoleum, carpets and grading for three-story and basement frame apartments.
Owner.....C. C. McKenzie, 1429 Sacramento, San Francisco.
Architect...None.
Contractor..J. Prout, 2020 Turk, S. F.
Filed Jan. 14, '16. Dated Dec. 28, '15.
Frame up ready for roof rafters.$3337
Enclosed, rough plumbing in and ready for lathers..... 3337
Ready for painters..... 3337
Completed and accepted..... 3339
Usual 35 days..... 4450
TOTAL COST, $17,800
Bond, $8900. Surety, Fidelity & Deposit Co. of Maryland. Limit, 90 days. Forfeit, none. Plans and specifications filed.
NOTE: 1st report Jan 8, 1916. No. 70

LEASES.

Jan. 14, 1916—NO. 4 SAGAMORE ST. Robert Wertz to Robert Murray and John Lazzerini. 5 years. $30 per month.
Jan. 14, 1916—E FRONT, bet Clay and Washington; Nos. 430 and 432 Front. E W Hopkins to W L and C T Sanford (as Sanford Bros.) 3 years. $5400.
Jan. 14, 1916—SW SEVENTEENTH & Kansas 50x92-6. The George Dillman Co to Anton Judnich. 6 years. $5400, with option to renew.

NOTICE OF NON-RESPONSIBILITY.

Jan. 14, 1916—S HOWARD AND Seventh SW 111xSE 100. John W J Enright and Mary A Sweeney as to improvements on leased property .....
Jan. 13, 1916—NO. 1752 POLK E line 26 m or l S Washington S 40-8xE 100 m or l. Sylvia wife Philip Gordon to A C Karski and Isaac Oppenheimer. 66 months. $16,500.

NOTICE OF NON-RESPONSIBILITY.

Jan. 13, 1916—W SANTA BARBARA Ave and SE Corbett Road th N 47 deg 42 min 55 sec E 71.03 th leaving Corbett Road along arch of curve to right 85.10 to a pt dist S 77 deg 04½ min E 85.10 for a beg th along arch of curve to right 50.60 to a pt S 75 deg .09½ E 50.60 N 23 deg 33¾ min E 100.34 N 73 deg 41½ min W 50.41 S 23 deg 33¾ min W 101.65. Westgate Park Co as to improvements on leased property....
Jan. 12, 1916—N CALIFORNIA 93-9 W Polk W 12-6 N 137-6 E 25 S 50 W 12-6 S 87-6; N California 106-3 W Polk W 25 N 137-6; N California 131-3 W Polk W 37-6xN 137-6; W Polk 112-6 N California N 25xW 81-3. George S Lurie as to improvements on leased property...

ASSIGNMENT OF LIEN.

Jan. 13, 1916—N PINE 77-6 W Grant Ave W 60xN 60. G & M Sheet Metal Works to S F Metal Stamping & Corrugating Co .....

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Jan. 7, 1916—W TAYLOR 137-6 N Sutter N 38-9xW 137-6. Biltmore Realty Co to United States Metal Products Co, Hicks & Folte and Peterson-James Co.....Jan. 6, 1916
Jan. 8, 1916—SE VAN NESS AVE & Post — 109xS 120. The Concordia to Siebert Co.....Jan. 7, 1916
Jan. 8, 1916—E NINETEENTH AVE 150 N Balboa N 25xE 120. Oscar W Lind to whom it may concern.....
.....Jan. 7, 1916
Jan. 8, 1916—E CASTRO 76-6 S Army 25x118. Albert and Karoline Noste to Victor Gullmer.....Dec. 30, 1916
Jan. 8, 1916—NO. 138 EAST. Harvey H Dana to Scott Co....Dec. 27, 1915
Jan. 10, 1916—LOT 24 BLK 6442 Amazon Tract Sub No. 2. R N Osborn to whom it may concern.Jan. 10, 1916
Jan. 10, 1916—E TWELFTH AVE 75 S Balboa S 25xE 95. Nellie R Eggers to R & J S McLelland.....
.....Jan. 5, 1916
Jan. 10, 1916—N SEVENTEENTH 86-3 E Guerrero E 24xN 102. Louis G and Elizabeth Shade to John J Binet Co.....Jan. 7, 1916
Jan. 10, 1916—S SEVENTEENTH 250 E Dolores 25x100. Robert O Hoffman to whom it may concern.....
.....Jan. 10, 1916
Jan. 10, 1916—E HYDE 112.5 S Ellis S 25x E 137.5. J Edw and Freda Steffens to Larsen-Sampson Co....
.....Jan. 8, 1916
Jan. 11, 1916—E TENTH AVE 325 N Kirkham N 25x120. Frank and Annie Zagrzewiski to whom it may concern.....Jan. 11, 1916
Jan. 12, 1916—S CABRILLO 57-6 W 11th Ave W 25x100. J H Conner to whom it may concern...Jan. 12, 196
Jan. 12, 1916—W TWENTY-FOURTH Ave 100 N California N 25xW 120. John Gray to whom it may concern
.....Jan. 11, 1916
Jan. 12, 1916—NO. 628 MONTGOMERY Montgomery Block Real Estate Associates to Petersen-James Co....
.....Jan. 10, 1916
Jan. 12, 1916—LOT 11 BLK "G" Mission Street Land Co. Homestead Realty Co to William H Grahn...
.....May 26, 1915
Jan. 12, 1916—S ANZA 82-6 E 22nd Ave 25x100. Joseph G Raggio to Devencenzi Bros & Co..Jan. 12, 1916
Jan. 12, 1916—S HAYES 193-3 W Central Ave 25x137-6; No. 1749 Hayes.
.....Dec. 22, 1915
Jan. 12, 1916—SE VAN NESS AVE & Post — 109 S 120 W 109 N 120. The Concordia to Harry G Graper
.....Jan. 10, 1916
Jan. 13, 1916—W CONNECTICUT 175 S 18th W 100xS 25. Gus F Lehrke to John Diestel and Edward Jose (as Diestel & Jose).....Jan. 7, 1916
Jan. 13, 1916—NE ZOE 137-6 SE Bryant. William Pembroke to Murray & Doig.....Dec. 23, 1915
Jan. 13, 1916—E FORTY-FIFTH AVE

185 S Irving S 25xE 120. Lazar Aydukovich to whom it may concern.....Jan. 12, 1916

Jan. 13, 1916—W TAYLOR 137-6 N Sutter N 35-9xW 137-6. Biltmore Realty Co to The California Plate & Window Glass Co and Kiel Iron Works ..... Jan. 12, 1916

Jan. 14, 1916—E TENTH AVE 100 N California N 25xE 120. Jno J and Dena M Powers to M G Hantzsche and Fred O McKay.....Jan. 14, 1916

Jan. 14, 1916—NE GOLDEN GATE Ave and Buchanan E 137-6xN 119-6. Mrs Emma Levison to Harry J Spring.....Jan. 8, 1916

Jan. 14, 1916—S MINNA 75 E Julia E 25xS 80. A F Schuler to Fred Warden.....Jan. 6, 1916

Jan. 14, 1916—SE SAN JOSE AVE 275 SW Santa Ynez Ave. Henry Steinbach to whom it may concern .....Jan. 14, 1916

LIENS FILED

San Francisco

Jan. 7, 1916—S FILBERT 154 W Webster W 24xS 137-6. Clancy & Sons vs George Arata and J H Sampel $183.66

Jan. 10, 1915—S FILBERT 154 m or l W Webster W 24xS 137-6. John Schmidt vs Devencenzi Bros & Co and George Arata.....$300

Jan. 11, 1916—N ELLIS 77-6 W Leavenworth W 60xN 137-6. Bay Development Co vs Metropolis Investment Co, George Elder, Dunnavant-Oakley Co $288.66

Jan. 12, 1916—N ELLIS 77-6 W Leavenworth 60x137. Pacific Gas & Electric Co vs Metropolitan Investment Co, Dunnavant-Oakley Co..$50

Jan 12, 1916—N ELLIS 77-6 W Leavenworth W 60xN 137-6. J N McCallum vs Metropolis Investment Co, Geo Elder and Dunnavant-Oakley Co $1135.47

Jan. 12, 1916—N ELLIS 77-6 W Leavenworth W 60xN 137-6. Pacific Portland Cement Co, Consolidated Cpn vs Metropolis Invst Co, Dunnavant-Oakley Co and G H Oakley Co, Inc $777.64

Jan. 13, 1916—N GEARY 95 W 9th Ave — 25 m or l by N 100; No. 4524 Geary. Charles Legrand vs Martin F and Annie Dooley.....$112

Jan. 14, 1916—N ELLIS 77-6 W Leavenworth W 60xN 137-6. Joost Bros vs Metropolis Invst Co and Dunnavant-Oakley Co.....$168.52

Jan. 3, 1916—S FILBERT 70 m or l W Steiner W 100xS 100. Rex Elec Co vs H A Lehfeldt and E M Reagh $295.10

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Jan. 5, 1916—S TURK 57.6 E Polk E 35xS 85. N O Nelson Mfg Co to J M Boscus.....

Jan. 10, 1916—N FILBERT 137-6 W Leavenworth W 137-6xN 137-6; W Leavenworth 87-6 N Filbert N 50x W 137-6. Wm P Goss to Howard M Engle.....

Jan. 11, 1916—S NEY 150 E Congdon E 25xS 110. E G Lawrence to Alice Jelm, Gus Jelm and J J Short.....

Jan. 11, 1916—W WISCONSIN 25 S 20th S 25xW 100. Robert Selman to Katherine McDonald .....

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
37	Troth	Litton	1800
38	Nichols	Nichols	1800
39	Donohue	Donohue	450
42	Alren	Dutra	400
43	Highe	Bay City Cabinet	500
44	Dunn	Anderson	400
46	Antraccoli	Daly	2200
47	Creighton	Rich	4000
48	Bates	Spence	5485
49	Blackman	Frances	500
50	Collins	Baccus	500
51	Cartwright	Cartwright	2000
52	O'Connor	O'Connor	2500
53	Berger	Knight	986
54	Alameda Co	Butte	3142
55	Same	Turner	4640
56	Same	Snook	6620
57	Hollidge	Hollidge	2500
58	Smith	Smith	2200
59	Dixon	Dixon	1000
61	Hollidge	Hollidge	2500
63	Kears	Kears	400
64	Oakland Bk Svgs	Walker	1000
65	Sampson	Sampson	400
66	Fossing	Fossing	1000
67	Mazzola	Hunter	400
69	Jackson	Warden	2718

REPAIRS
(37) NO. 1651 NINETEENTH AVE., Oakland. Fire repairs to dwelling.
Owner.....Mrs. D. S. Troth, Premiscs.
Architect ...None.
Contractor..R. B. Litton, 2326 26th Ave., Oakland.
COST, $1800

DWELLING
(38) W MAGEE AVE 200 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....Estelle H. Nichols, 2342 14th Ave., Oakland.
Architect ...None.
Contractor..Leo L. Nichols, 2342 14th Ave., Oakland.
COST, $1800

ALTERATIONS
(39) SE NINTH AND FRANKLIN, Oakland. Alterations.
Owner.....Mrs. Donohue, S. F.
Architect ...None.
Day's work. COST, $450

ALTERATIONS
(42) NO. 1048 EIGHTY-SECOND AVE. Oakland. Alterations.
Owner.....Antone Abreu,Premises.
Architect ...None.
Contractor..A. V. Dutra, 3425 Haven, Oakland.
COST, $400

ALTERATIONS
(43) NO. 1424 SAN PABLO AVE., Oakland. Alterations.
Owner.....S. Highe, Premises.
Architect ...None.
Contractor..Bay City Cabinet Co., 1080 5th, Oakland.
COST, $500

ALTERATIONS
(44) NO. 975 FOURTEENTH, Oakland. Alterations.
Owner.....Mrs. Dunn.
Architect ...None.
Contractor..Wm. E. Anderson, 14 Croxton Ave., Oakland.
COST, $400

DWELLING
(46) LOT 19 and E 7½ Lot 18 Blk "A" Map No. 2 Paradise Plot, Oakland. All work for one-story 5-room dwelling.
Owner.....Peter Antraccoli, 3815 Telegraph Ave., Oakland.
Architect ...None.
Contractor..E. B. Daly, Oakland.
Filed Jan. 11, '16. Dated Jan. 6, '16.
Frame up, rustic on and plumbing roughed in $700
Plastered 500
Completed and accepted..... 500
Usual 35 days..... 500
TOTAL COST, $2200
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
(47) N MOUNTAIN AVE being Lot 17 Craig Ppty., Piedmont. Two-story 8-room dwelling and garage.
Owner.....W. H. Creighton, 466 Slow Ave., Oakland.
Architect ...None.
Contractor .Rich & Woolley, 3868 Lusk Oakland.
COST, $4000

BRICK GARAGE
(48) N FIFTEENTH 50 W Jefferson W 50xN 103-9, Oakland. All work for one-story brick garage.
Owner.....Bates, Borland & Ayer, Oakland Bank of Savings Bldg., Oakland.
Architect ...W. D. Reed, Oakland Bank of Savings Bldg., Okd.
Contractor..A. T. Spence, 641 Taylor Ave., Alameda.
Filed Jan. 12, '16. Dated Jan. 10, '16.
On 15th day of each month.... 75%
Usual 35 days..... 25%
TOTAL COST, $5485
Bond, none. Limit, 45 days. Forfeit, $5. Plans and specifications filed.

PLANING MILL
(49) E FORTY-SECOND AVE 150 S E-14th, Oakland. Two-story planing mill.
Owner.....E. L. Blackman, Premises.
Architect ...None.
Contractor..E. O. Frances, 4315 E-12th, Oakland.
COST, $500

ALTERATIONS
(50) S ELEVENTH 125 W Broadway, Oakland. Alterations.
Owner.....B. Collins, Oakland.
Architect ...None.
Contractor..W. J. Baccus, 565 16th, Okd
COST, $500

DWELLING
(51) E BRYANT AVE 60 N Ada, Oakland. One-story 6-room dwelling.
Owner.....M. C. Cartwright, 5632 Broadway, Oakland.
Architect ...None.
Contractor..W. A. Cartwright, 5632 Broadway, Oakland.
COST, $2000

DWELLING
(52) E BRYANT AVE 150 N College, Oakland. One-story 6-room dwlg.
Owner.....J. C. O'Connor, 202 Syndicate Bldg., Oakland.
Architect ...M. I. Diggs.
Day's work. COST, $2500

GALVANIZED IRON FACTORY
(53) SE E-ELEVENTH AND PARK Ave., Oakland. All work for one-story galvanized iron factory.
Owner.....Jesse A. Berger, 744 E-20th, Oakland.
Architect...Chester H. Miller, Dalziel Bldg., Oakland.
Contractor..Harry C. Knight, 3851 Market, Oakland.
Filed Jan. 12, '16. Dated Jan. 10, '16.
Framing of first half completed.. ¼
Framing of 2nd half completed ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $986.20
Bond, none. Limit, 45 days. Forfeit, none. Plans and specifications filed.

ELECTRIC WORK
(54) FOOTHILL BLVD. near San Leandro. Electric work for two-story brick and concrete first unit of Infirmary.
Owner.....County of Alameda.
Architect...Chas. P. Weeks, Mutual Bank Bldg., S. F.
Contractor..Butte Elec. & Eng. Co., 683 Howard, San Francisco.
COST, $3142

(55) HEATING AND VENTILATING on above.
Contractor..The Turner Co., 278 Natoma, San Francisco.
COST, $4640

(56) Plumbing on above.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
COST, $6620

DWELLING
(57) E BROADWAY 502 S Prospect, Oakland. One and one-half-story 7-room dwelling.
Owner.....Geo. H. Hollidge, 5926 Taft Ave., Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(58) N FLEMING AVE 200 E 55th Ave. Oakland. One and one-half-story 8-room dwelling.
Owner.....Frederick Smith.
Architect...None.
Contractor..O. G. Smith, 4402 Brookdale Ave., Oakland.
COST, $2200

DWELLING
(59) S E-THIRTY-THIRD 211 E 14th Ave., Oakland. One-story 4-room dwelling.
Owner.....T. Dixon, 242 E-14th, Okd.
Architect...None.
Day's work. COST, $1000

DWELLING
(61) E BROADWAY 462 S Prospect, Oakland. One and one-half-story 7-room dwelling.
Owner.....Geo. H. Hollidge, 5926 Taft Ave., Oakland.
Architect...None.
Day's work. COST, $2500

ALTERATIONS
(63) NO. 470 TWELFTH, Oakland. Alterations.
Owner.....Harry Kears, Premises.
Architect...None.
Day's work. COST, $400

ALTERATIONS
(64) NE TWELFTH AND BROADway, Oakland. Alterations.
Owner.....Oakland Bank of Savings, Premises.
Architect'..W. D. Reed, Oakland Bank of Savings, Oakland.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $1000

ALTERATIONS
(65) NO. 1627 E-SIXTEENTH, Oakland. Alterations.
Owner.....S. P. Sampson, Premises.
Architect...None.
Day's work. COST, $400

BOILER ROOM
(66) NO. 1577 BRUSH, Oakland. Boiler room.
Owner.....Eva M. Fossing, 560 Oakland Ave., Oakland.
Architect...None.
Day's work. COST, $1000

DWELLING
(67) N FORTY-SECOND 300 E Market, Oakland. One-story 3-room dwlg
Owner.....L. Mazzola, 865 43rd, Okd.
Architect...None.
Contractor..A. W. Hunter, 871 53rd, Oakland.
COST, $400

ALTERATIONS
(69) W CLAY, bet. 13th and 14th, Oakland. All work except steel work and painting for alterations to store building.
Owner.....Jackson Furniture Co., Premises.
Architect...Carl Werner, Phelan Bldg San Francisco.
Contractor..Warden Bros.
Filed Jan. 14, '16. Dated Jan. 14, '16.
Completed and accepted....$2038.50
Usual 35 days..... 679.50
TOTAL COST, $2718.00
Bond, none. Limit, 30 days. Forfeit, $10. Plans only filed.

Building Contracts Awarded

Oakland.

40	Klamfp	Montgomery	1000
41	Butler	Allen	3000
45	C M E Church	Owner	2500
60	Rhine	Hicks	1000
62	Hang	Hang	400
68	Ala Co Hm Bldrs	Wiley	5000

ALTERATIONS
(40) SW ASHBY AND COLLEGE, Berkeley. Alterations.
Owner.....Mrs. O. H. Klamfp.
Architect...None.
Contractor..W. S. Montgomery, 2321 Ward, Berkeley.
COST, $1000

BRICK GARAGE
(41) SW SHATTUCK AND DURANT Aves., Berkeley. One-story brick garage.
Owner.....F. M. Butler, 635 El Dorado Ave., Oakland.
Architect...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $3000

FRAME CHURCH
(45) SE CALIFORNIA AND DERBY, Berkeley. One-story frame church.
Owner.....C. M. E. Church.
Architect...None.
Day's work. COST, $2500

DWELLING
(60) S FELTON 80 W King Ave., Berkeley. One-story 5-room dwelling.
Owner.....Mrs. H. Rhine, 1208 Cornell Ave., Berkeley.
Architect...None.
Contractor..A. L. Hicks, 1268 Cornell Ave., Berkeley.
COST, $1000

ADDITION
(62) NO. 2313½ DURANT AVE., Berkeley. Addition.
Owner.....Mrs. Ida Hang, 1732 Highland Place, Berkeley.
Architect...None.
Day's work. COST, $400

DWELLING
(68) E SPRING about 900 N Vine, Berkeley. Two-story 8-room dwelling.
Owner.....Alameda County Home Bldrs., 222 1st National Bk. Bldg., Berkeley.
Architect...W. H. Ratcliff Jr., 211 1st National Bank Bldg., Bkly.
Contractor..J. M. Wiley, 1718 Hearst Ave., Berkeley.
COST, $5000

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Jan. 6, 1916—SW FOURTEENTH & Broadway S 200xW 100, Oakland. Matilda Brown, Annie Moller and Lillian D Powers as to improvements on leased property.....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Jan. 8, 1916—LOT 21 BL 14 Map Northbrae, Oakland Tp. W L Woodward to H H Schuessler.Dec. 31, 1915
Jan. 10, 1916—E WEBSTER 36 N 44th N 36xE 100, Okd. Mark Lennon to John Lehman.....Dec. 10, 1915
Jan. 10, 1916—E MARKET 32 S 42nd S 28.45 being Ptn Lots 16 and 17 Map Estate John Evoy, Plot 26, Okd. Reinhard W Hitchens to L W Andersen.....Dec. 14, 1915
Jan. 10, 1916—NO. 5633 OCEAN VIEW Drive, Okd. Sarah Alice Morgan to J F Rogers.....Jan. 10, 1916
Jan. 10, 1916—LOT 29 AND S 15 LOT 28 Blk "D" Map Broadway Terrace Okd. F D Robbins to whom it may concern.....Jan. 10, 1916
Jan. 10, 1916—LOTS 180 AND 181, Crocker Highlands, Okd. Sidney B Newsom to C A Anderson and B G Larson.....Jan. 8, 1916
Jan. 11, 1916—LOT 5 Map Boyd Place, Bkly. George A and Gertrude L Brown to Verne Dildine.Jan. 10, 1916
Jan. 11, 1916—LOT 3 BLK 14 Northbrae, Oakland Tp. Louis E Schuessler to H H Schuessler..Jan. 11, 1916
Jan. 11, 1916—WEST OAKLAND Yards, Okd. Southern Pacific Co to B S Harris.....Jan. 10, 1916
Jan. 11, 1916—SW THIRTY-FOURTH and Chestnut, being Lot 7 Blk 576 Map Watts Tract No. 2, Okd. C McCarron to Albert A Haskell.....Jan. 10, 1916
Jan. 11, 1916—LOT 9 BLK 1 Amended

Map Blk 1 Thousand Oaks, Oakland Tp. N Kruschke to A L Skee.... .....Jan. 11, 1916

Jan. 12, 1916—S ARIMO AVE 250 E Walla Vista Ave, being Lot 14 Blk "L" Map East Piedmont Heights, Okd. Ella B Edwards to C B Barton.....Jan. 7, 1916

Jan. 12, 1916—LOT 1 BLK 7 Map Northbrae, Bkly. Carrie Newman to John M Bartlett.....Jan. 6, 1916

Jan. 12, 1916——S DELAWARE 219.17 E Bonita Ave E 40xS 95, Bkly. Anna Brewer to John B Woolfrey. .....Jan 3, 1916

Jan. 12, 1916—NO. 1609 SPRUCE, being E Spruce about 100 S Cedar, Bkly. Maria C Anderson by James W Plachek to O M and H G Patrick .....Jan. 7, 1916

Jan. 13, 1916—LOT 14 Hemphill Tct, Okd. Wm H Picard and Chas E Faulhaber to whom it may concern.....Jan. 12, 1916

Jan. 14, 1916—PTN LOT 1 Map Duffy Tract, Okd. Laura E Allen to whom it may concern..Jan. 5, 1916

Jan. 14, 1916—NE PERRY 100 SE Jeane 40x150, Okd. Mrs A V Long to C J Pfrang.....Jan. 12, 1916

LIENS FILED

ALAMEDA COUNTY.

Jan. 8, 1916—LOT 98 Map Santa Fe Tract No. 20, Okd. Hunter Lumber Co vs Gustave Johanson and J J Benton $216.40

Jan. 8, 1916—SW SACRAMENTO AND Francisco S 100xW 80, Bkly. J W Swift and R C Wilcox (Swift & Wilcox) vs E M Reagh and Henry A Lehfeldt $86.05

Jan. 11, 1916—LOT 27 BLK 2 Map North Cragmont, Bkly. Hogan Lumber Co vs Geo W Morrow.$138.21

Jan. 12, 1916—LOT 13 BLK "C" Map Scenic Blvd Knoll, Okd. Schmidt & Birtsch vs H S Patton and G W Baumann $250

Jan. 12, 1916—NW FIFTH AVE AND NE E-20th NW 87½xNE 50, Okd. Pacific Mfg Co vs Carrie C Penoyar and Emeryville Planing Mill..$126.85

Jan. 13, 1916—LOT 20 BLK "B" Map Adline St. Ppty, being resbdvn Blks A and B of Northern Addition to City of Oakland. L W Blake vs J Johnson $105

RELEASE OF LIENS.

ALAMEDA COUNTY.

Jan. 11, 1916—NE DELAWARE 291.87 SE Peralta Ave SE 40xNE 100, Okd. Sunset Lumber Co to William and Bessie Street $378.59

Jan. 15, 1916—SE SHAFTER AVE 126.59 NE College Ave NE 80 SE 131.01 SW 80 NW 130.78, Okd. Sunset Lumber Co to Berkeley Bank of Savings & Trust Co et al..$1734.33

Jan. 15, 1916—SW SACRAMENTO & Francisco S 160xW 80, Bkly. Swift & Wilcox, $86.05; Hunter Lumber Co, $139.22 to E M Reagh and Henry A Lehfeldt .....

Jan. 14, 1916—NW FIFTH AVE AND NE E-20th NW 87½xNE 50, Okd. Pacific Mfg Co to Carrie C Penoyar and Emeryville Planing Co..$126.85

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME DWELLING
NO. 425 S-SECOND ST., San Jose. All work for two-story frame dwelling.
Owner.....W. H. Wood, Premises.
Architect ...A. P. Hill, Jr., Porter Bldg San Jose.
Contractor..S. H. Gandrup, 132 N-16th St., San Jose.
Filed Dec. 20, '15. Dated Dec. 15, '15.
Frame up ..... ¼
Brown plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $635
Bond, $320. Sureties, W. T. Lloyd and R. B. Jones, San Jose. Limit, 70 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
GLEN ARY AVE., San Jose. All work for one-story frame dwelling.
Owner.....C. W. Moore, San Jose.
Architect ...None.
Contractor..J. J. Hanson, 140 N-16th St., San Jose.
Filed Dec. 21, '15. Dated Dec. 20, '15.
Frame up ..... ¼
Building enclosed ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $1570
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
LOT 12 BLK 4, Hester Park, San Jose. All work for one-story frame dwlg.
Owner.....J. Kraus, San Jose.
Architect ...None.
Contractor..V. F. Van Dalsam, 171 N-18th St., San Jose.
Filed Jan. 6, 1916. Dated Dec. 27, '15.
Frame up $375
When plastered 375
When completed 375
Usual 35 days..... 375
TOTAL COST, $1500
Bond, $800. Sureties, V. F. Van Dalsam and E. M. Sullivan, San Jose. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
MILPITAS. All work for two-story frame and plastered dwelling.
Owner.....Geo. E. Abel, Milpitas.
Architect ..A. P. Hill Jr., Porter Bldg., San Jose.
Contractor..P. E. Peterson, San Jose.
Filed Dec. 24, '15. Dated Dec. 15, '15.
Frame up ..... ¼
Brown plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $5425
Bond, $2752.50. Sureties, O. N. Berg and Geo. W. Dobson, San Jose. Limit, 120 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Dec. 30, 1915—ON CINNIBAR ST. near Alameda Road, San Jose. M R Hanlon to whom it may concern.. .....Dec. 20, 1915
Dec. 31, 1915—36 ACRES OF LAND near Los Gatos on Kennedy Road. H W Phillips to whom it may concern .....Dec. 30, 1915
Jan. 8, 1916—LOT 21 BLK 12 South Range B of the Jas Lick Homestead Tract, San Jose. S G Picone to whom it may concern....Jan. 8, 1916
Jan. 8, 1916—ON N SIDE STEVENS Creek Road between Cleveland and Topeka Ave., San Jose. The Roman Catholic Archbishop of S. F. to The San Jose Contract Mill & Lumber Co.....Dec. 30, 1915

BUILDING CONTRACTS

SAN MATEO COUNTY.

RESIDENCE
LOT 11 of the Reserved Villa Lots of the Bowie Estate Company. All work except painting and plumbing fixtures for residence.
Owner.....Alice A. Myers, Hillsborough.
Architect ...L. M. Upton.
Contractor..O. W. Britt, 330 Ivy, S. F.
Filed Jan. 10, '16. Dated Dec. 10, '15.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $7950
Bond, none. Limit, 100 days. Forfeit, $10. Plans and specifications, none.

FRAME COTTAGE
BEPLER AND RHINE STS., Daly City. All work for one and one-half-story frame cottage.
Owner.....T. Colloty, Colma.
Architect ...None.
Contractor..Thomas McCormick, 25 Gladys, San Francisco.
Filed Jan. 8, '16. Dated Dec. 23, '15.
Frame up $562.50
Brown plastered 562.50
When completed 562.50
Usual 35 days..... 562.50
TOTAL COST, $2250.00
Bond, $1125. Sureties, H. S. Thomson and W. A. Dunn. Limit, 90 days. Forfeit, none. Plans and specifications, none.

BRICK WALL
EL CAMINO REAL, opp Crystal Springs Road, San Mateo. All work for brick wall for Red Cross Hospital.
Owner.....St. Matthew's Red Cross Hospital, San Mateo.
Architect ...Lewis P. Hobart, Crocker Bldg., San Francisco.
Contractor..Farrell & Reed, 709 Mission, San Francisco.
Filed Jan. 5, '16. Dated Jan. 3, '16.
TOTAL COST, $1747
Bond, none. Limit, Feb. 1, 1916. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Dec. 27, 1915—CRYSTAL SPRINGS Road, City of San Mateo. A P Welch to Collman & Collman..... .....Dec. 21, 1915
Dec. 28, 1915—LOT 3 BLK 11, Menlo Oaks, Menlo Park. Oregon E Morris to whom it may concern..... .....Dec. 14, 1915
Dec. 28, 1915—LOT 20 BLK 32, Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern..... Dec. 21, 1915

Dec. 28, 1915—LOT 5 BLK 44, Redwood Highlands. Redwood City. Redwood Highlands Co to whom it may concern.....Dec. 27, 1915
Dec. 28, 1915—LOTS 12 AND 13 BLK 5 Burlingame Grove Tract, Burlingame. A L Bowley to John J Binet.....Dec. 23, 1915
Dec. 29, 1915—LOT 48 Burlingame Heights, Burlingame. Gertrude M Smith Radle to S McClure.Dec. 23, '15
Jan. 4, 1916—LOT 13 BLK 45 Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern.....Jan. 3, 1916
Jan. 4, 1916—LOT 14 BLK 22, Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern.....Jan. 3, 1916
Jan. 4, 1916—LOT 26 BLK 31, Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern.....Jan. 3, 1916
Jan. 6, 1916—LOT 4 BLK 7 Range "C" Town of Mezesville (now called Redwood City). John Capella to Floyd L and Earl D Baird.Jan. 6, '16
Jan. 7, 1916—LOT 12 and ½ Lot 11 Blk 11, City of San Mateo. E A Hasing to W S Leadley.Dec. 31, 1915

RELEASE OF LIENS.

SAN MATEO COUNTY.

RECORDED AMOUNT
Jan. 6, 1916—PTN BLK 7, Dimond Tract, Visitacion. Charles Gad to J E Sprague and Wright & Co.$101.25
Jan. 6, 1916—LOTS 8 AND 9 BLK 14 Western Add'n to City of San Mateo. Inlaid Floor Co to Mrs Boswell Dixon $85.44

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

TANKS
PITTSBURG, Conra Costa County. Erect tanks.
Owner.....Hercules Powder Co., Pittsburg, Cal.
Architect ...None.
Contractor..Redwood Manufactures Co. 479 Bryant, S. F.
COST, $40,000

CONCRETE & BRICK BLDG.
CITY OF RICHMOND, Contra Costa Co. Erect two-story and basement reinforced concrete and brick City Hall.
Owner.....City of Richmond.
Architect ...Jas. T. Narbett and J. B. Ogborn, 704 Macdonald Ave Richmond.
Contractor..Williams Bros. & Henderson, Holbrook Bldg., S. F.
COST, $25,000

PAINTING SCHOOLS
BEING BLOCK BDED BY RAILROAD Ave on W; by Fourth St. on N; Cumberland St. on E, and Fifth St. on S, City of Pittsburg. All work for painting of several school buildings, designated as Main Building, Brick Building and Stable.
Owner.....Pittsburg Grammar School District, Pittsburg, Cal.
Architect ...None.
Contractor..Carl J. Fiske.
Filed Jan. 4, '16. Dated Dec. 10, '15.
On completion of interior and delivery of all material on premises $300
Completion of entire contract.... 165
Usual 35 days..... 230
TOTAL COST, $695
Bond, $347.50. Surety, Massachusetts Bonding & Insurance Co. Limit, Until Jan. 31, 1916. Forfeit, none. Plans and specifications filed.

FRAME BUILDING
LOT 8 BLK 3 in Tormey-Merrithew Addition to Town of Martinez. Excavating, concrete and cement work, brick work, plumbing, painting, carpenter work, plastering, electric, roofing and all other work for frame building.
Owner.....W. R. Sharkey, 1001 Main St., Martinez, Cal.
Architect ...James I. Narbett, 704 Macdonald Ave., Richmond, Cal
Contractor..George Bitcon, Martinez.
Filed Dec. 29, '15. Dated Dec. 28, '15.
Entire frame up, roof on and closed in $537.50
Outside priming coat of paint and walls and ceiling inside plastered 537.50
Entirely completed and accepted by architect 537.50
Usual 35 days..... 537.50
TOTAL COST, $2150.00
Bond, $1075. Sureties, J. J. McNamara and C. Borghesani. Limit, within 45 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

MARIN COUNTY.

RECORDED ACCEPTED
Jan. 12, 1916—LOT 11 A Barber Tract San Anselmo. Nellie E Van Meter to Ellis L Wilson.....Jan. 7, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

FRAME DWELLING
LOTS 25 AND 26 BLK 57, East Fresno Tract, Fresno. All work for frame dwelling.
Owner.....Shepherd - Cochrane Co., 1659 I St., Fresno.
Architect ...E. Mathewson, 206 Forsythe Bldg., Fresno.
Contractor..Henry Gede Jr. and Victor R. Gede, 451 Poplar St., Fresno.
Filed Jan. 12, '16. Dated Dec. 30, '15.
1st floor joists in place.....$1000
When plastered 1000
When completed 1000
Usual 35 days..... 1125
TOTAL COST, $4125
Bond, $2065. Sureties, J. C. Gustin and Chas. Bergstrom. Limit, 65 working days. Forfeit, $2.50 per day. Plans and specifications filed.

FRUIT SHED
OPP. LOTS 13 AND 14 BLK 49, Arlington Heights, Fresno. Fruit Shed Rail Road Reservation.
Owner.....H. V. Rudy, P. O. Box 1318, Fresno.
Architect ...None.
Contractor..W. H. Minard, 319 Abby, Fresno.
COST, $1950

DWELLING
LOT 12 BLK 21, Alta Vista Tract, Fresno. Dwelling.
Owner.....Reese & Atkins, 743 Weldon St., Fresno.
Architect ...None.
Day's work. COST, $1800

DWELLING
LOT 1 BLK 22, Alta Vista Tract, Fresno Dwelling.
Owner.....F. C. Wilson, 2321 Hills St., Fresno.
Architect ...None.
Day's work. COST, $1700

DWELLING
LOT 33 BLK 3 Orchard Hill Add'n., Frseno. Dwelling.
Owner.....C. A. Clark, 451 Thesta St., Fresno.
Architect ...None.
Contractor..S. P. Williams, 3019 McKenzie, Fresno.
COST, $1100

ALTERATIONS
LOTS 7 AND 8 BLK 72, Fresno. Reconstruct store front.
Owner.....Mary E. Berry.
Architect ...R. F. Felchlin, 616 Rowell Bldg., Fresno.
Day's work. COST, $1500
COST, $1500

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

REPAIRS
NO. 601 G ST., on Lots 7 and 8, F, G, 6th and 7th Sts., Sacramento. Repair 2 boilers in two-story brick cannery.
Owner.....California Cannery Co., 601 G St., Sacramento.
Architect ...None.
Contractor..Harry Simpson, 2540 21st St., Sacramento.
COST, $400

FRAME GARAGE
NO. 2121 TWENTY-FIRST ST., on N ½ Lot 8, U, V, 21st and 22nd Sts., Sacramento. One-story frame private garage.
Owner.....James Gillis, Premises.
Architect ...None.
Contractor..Siller Bros., 1614 13th St., Sacramento.
COST, $400

ALTERATIONS
EIGHTEENTH AND "D," on Lots 1, 2, 3 and 4, D, E, 17th and 18th Sts., Sacramento. Partition in one-story frame corrugated iron freight shed.
Owner.....Northern Elec. Co., 8th and J Sts., Sacramento.
Architect ...None.
Day's work. COSTII, $350

ALTERATIONS
NO. 309 V ST., on W ½ Lot 7, U, V, 3rd and 4th Sts., Sacramento. Move one story frame dwelling and place on new concrete foundations and repair from 503 17th St.
Owner.....Manuel Jacinto, 330 V St., Sacramento.
Architect ...None.
Day's work. COST, $925

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San Francisco, Cal., January 26, 1916

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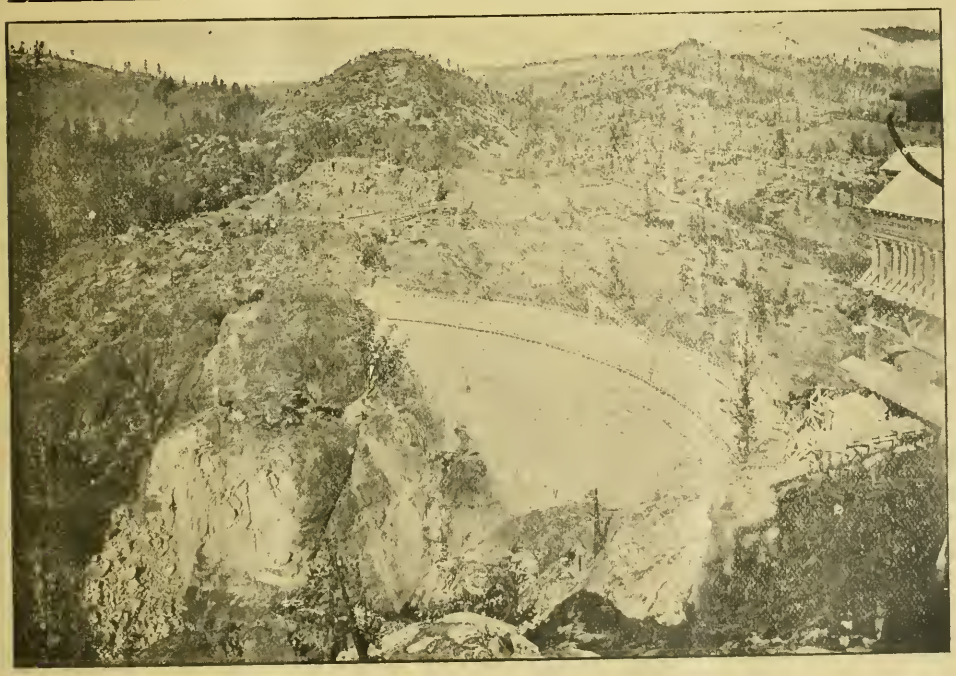

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W. D. Manville, News Editor.
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January 26, 1916

Leading Articles in this Issue:

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By George Nelson, C. E.
Illustrated.

Southern Pacific Company's Improvement of Coast Line Terminal. San Francisco.

By J. Q. Barlow, Assistant Chief Engineer S. P. Co.

Spaulding Drum Development of the Pacific Gas and Electric Co.

By George Nelson, C. E.
Illustrated.

Kern County Concrete Highways

By George Nelson, C. E.
Illustrated.

Some Notable Concrete Structures on the New York Barge Canal.

By Hillyard Miller, C. E.
Illustrated.

Long Beach New Concrete Pipe Sewer Completed.

By George Nelson, C. E.
Illustrated.

Concrete Chimneys.

By George Nelson, C. E.
Illustrated.

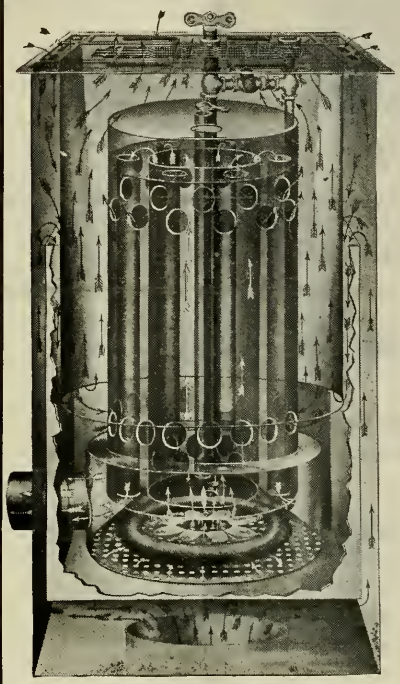
Effects of Electrolysis on Reinforced Concrete Structures.

By Albert F. Ganz, M. E., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J.

The Mount Whitney Road.

Report of Kern County Viewers.

THE WHOLE WORLD AWAITS THE ADVENT OF A PRACTICAL GAS HEATING DEVICE WITH OUR UNIT PLANT FURNACES HEATING WITH CLEAN GAS IS AS PRACTICAL AND ECONOMICAL AS WITH DIRTY, DUSTY, SMOKY COAL OR OIL



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Has 8-in. Fresh Air Intake with Damper.
Has 3-in. Outlet Vent
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NOTE—Style A and B are built alike except for position of fresh air intake.

C. **Wall Furnace** with fresh air intake at bottom. For artificial gas only.

D. **Wall Furnace** with fresh air intake at back. For artificial gas only.
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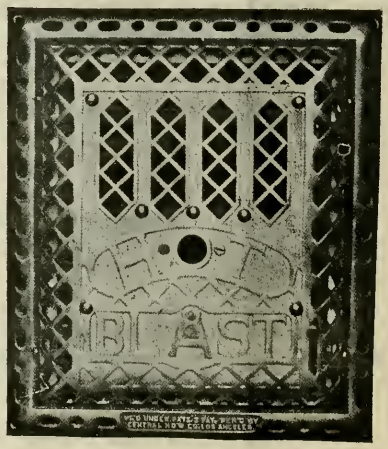

WALL FURNACE STYLE C
Sie of Wall Furnace front is 17x19 inches, with a recessed portion of 14x17x4 inches between studding. Recessed portion has a 2-inch vent opening at top and a fresh air intake 3x12 inches at bottom operated with damper in front. Both vent and fresh air intake pipes go between studding.

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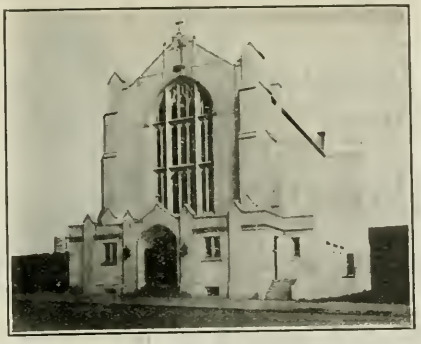

Benj. G. McDougall, Architect.
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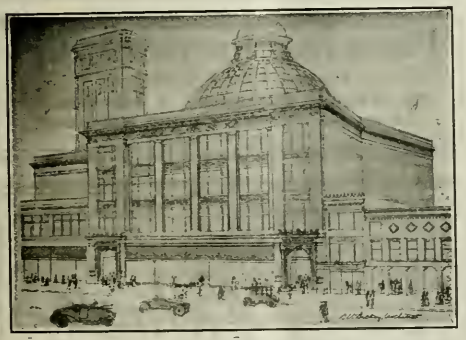
South and east cement walls waterproofed with Imperial Water Proofing. Color effect produced with Imperial Concrete Finish to match stone work of street fronts

METCALF HOTEL, Geary nr Taylor.
Righetti & Headman, Architects.

Interior walls dampproofed with Imperial Damp Proofing. Exterior walls waterproofed with Imperial Water Proofing. Color effects with Imperial Pigments.

TEMPORARY CITY HALL, San Francisco
Wright, Rushford & Cahill, Architects

Exterior waterproofed with Imperial and color effects with Imperial pigments.



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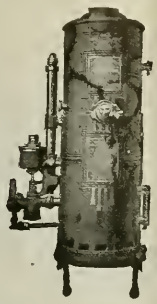

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Modern Uses of Hydraulic Cement.

By George Nelson C. E.

The last twenty-five years have seen the greatest development in the use of Hydraulic Cement in all kinds of engineering structures that has so far taken place in the history of the human race.

The making of cement has emerged from the experimental stage and must now be considered an exact science. No modern cement plant does now rely on the rule of thumb or an old experienced foreman's guess, every one requires chemical anaylsis both of the raw materials and of the finished products. The cement industry has given the greatest impetus to the modern science of "Testing of Materials" and isto day blazing the way for better construction methods and better inspection and rigid tests of concrete work.

Hydraulic Cement Concrete is today being used in:

Water Works Construction:—

Walls, Foundations, Roofs, Floors — For Filtration Plants and Pumphouses.

Also for retaining walls and Reservoir Linings and Tunnel Linings and Conduits.

Sewerage Works:—

Pipe Lines and Purification Plants, such as screening tanks, septic tanks, Imhoff tanks and tanks for the Riensch-Wurl screen.

Harbor Work.:—

Piles, Quay Walls, Breakwaters, Docks, Warehouses, Silos, Coal Bunkers, Canal Locks, Dams, Canal Linings and Light Houses.

Shore Protection Works:—

Groynes, Sea Walls, Bulkheads, Jetties.

Irrigation Works:—

Dams, Intakes, Canal Linings, Flumes, Bridges, Trestles and Pipe Lines.

Hydro-electric Power Construction:—

Dams, Power Houses, Canals, Penstock Piers, Wheel Pits, Engine Foundations, Bases for Transmission Towers.

Highways and Streets:—

Base for Asphalt Pavements.
Base for Brick Pavements.
Base for Wood Block Pavements.
Base for Belgian Block Pavements.
Concrete Roads and Pavements, one and two Course Construction.
Curbs, Sidewalks, Gutters, Culverts.
Retaining Walls, Lamp Posts, Bridges, Conduits and Manholes for Electric Wires and Telepbone Cables.

Building Construction:—

Reinforced Concrete Buildings of all kinds, Factory Buildings and Chimneys.

Railroad Construction:—

Bridges, Trestles, Culverts, Retaining Walls, Station Buildings, Train Sheds, Round Houses, Water Towers, Signal Towers, Tunnel Linings, Railway Ties, Telegraph Poles, Fence Posts, Grain Elevators and Trolley Poles.

Farm Structures:—

Farm Buildings, Dairies, Stables, Water Troughs, Fence Posts and many other small uses too numerous to mention.

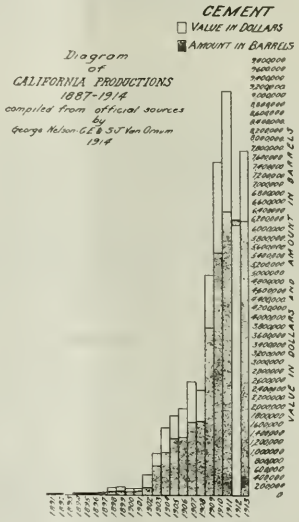
The effect of this extended use of cement on the industries of the country has been, to say the least, phenomenal.

It has given rise to several independent lines of manufacture, such as the building of concrete mixers and moulding and block machines, which has assumed large proportions lately

The manufacture of steel bars, plain and deformed, of wire mesh, both welded and otherwise, and spiral reinforcement for columns and pipe is also sprung from the increased use of concrete.

Waterproofing and damp-proofing compounds are also being put on the market in numerous brands and qualities.

The science of reinforced concrete design has itself developed wonderfully under the impetus of the increasing popularity of concrete as an engineering material.



CEMENT IN CALIFORNIA.

This diagram needs no explanation. It shows that up to 1902 California cement was not recognized as of much account outside of a purely local demand. From 1902 to 1908 it shaws a healtny growth, in spite of the fact that new plants were being established, and from 1908 it shows a phenomenal growth, unparalleled anywhere and also shows an industry in a good and healthy condition. It shows the effect that the development of reinforced concrete construction has had on the cement industry since the reconstruction of San Francisco commenced.

When it is considered that California ranks third in the production of cement, the only States ahead of it being Pennsylvania and Indiana, it must be conceded that this Industry is ably handled and sets a pace for others well worth imitating. With the South American and other oversea markets opened up to us we expect to see this gigantic stride kept up and California eventually take the lead among the States.

Southern Pacific Company's Improvement of Coast Line Terminal.

San Francisco, California.

J. Q. Barlow, Asst. Chief Eng. S. P. Co.

Passenger Terminal Development, Freight Houses, Interlocking Plant and Classification Yard.

The terminal facilities of the Southern Pacific Company's Coast Line at Third and Townsend streets, San Francisco, were inadequate for the rapidly growing peninsular traffic. The needed improvements were hastened along by the anticipated heavy travel during the Panama-Pacific International Exposition period.

The entire yard (an area of 47 acres, bounded by Third, Seventh, Townsend and Berry streets) was revised, not a single building and track remaining in place. In part, this area was raised four feet above old grade. The construction of new building and yard changes were completed without interruption of train service.

The old passenger station, a two-story frame building, was moved to new foundation a block distant to Third and King streets, leaving the old site clear for the erection of the new station. Temporary waiting room and baggage room facilities were constructed on Townsend street between Third and Fourth streets.

Where formerly the old station was served with twelve tracks, twenty-six have now been installed. The freight yard was entirely separated from coach yard. In all, thirteen miles of track were laid. All train movement is controlled by interlocking plant from a **three-story reinforced concrete signal tower.**

The yard changes necessitated the moving of all freight houses to new locations on Berry street.

The new station is of "Mission" architecture, brick construction, with imposing elevations at Third and Townsend streets. The exterior is **of light gray cement stucco** with granite base and red Mission tile roof. The building is "L" shape in plan with the following overall dimensions: 115x265 feet on Third street and 35x275 feet on Townsend street. Wide arcades stretch along on both frontages and under a wide marquise passengers may be discharged from automobiles, either on Third street or Townsend street and be under cover at all times.

Special study was given to the peculiar conditions prevailing. The numerous commuters, or excursion travel, may enter the concourse direct from Townsend street without entering the general waiting room. Passengers going to general waiting room enter through four batteries of six door entrances, which provide against congestion at any time.

From the concourse, which extends full length of building, passengers pass through gates to their respective trains. The outside wall towards train platforms is entirely of steel sash and plate glass, giving a full view of all tracks. At each gate is provided a station indicator originated by the Southern Pacific Company. The track number is shown in illuminated numerals; below is given the train number and name, time of departure and name of every station for each train schedule. All indicator panels are interchangeable and may be used for any gate.

All platforms are under cover full length; extending to Fourth street. The construction of these train sheds is **of reinforced concrete of the "Butterfly" type;** the Southern Pacific Company being the first to adopt this form of construction.

The outbound and inbound travel has been entirely separated. While the principal entrance may be designated at Third street near Townsend street, and also on Townsend street, the exit is near King street, where a large area for auto parking has been provided.

The general waiting room is 64x110 feet, with an arched ceiling 45 feet high. Passengers may enter from here direct into women's waiting and men's waiting rooms, also restaurant. Light enters from three sides, and in order to diffuse such light, amber moss glass was used, giving the room a warm and cozy atmosphere.

The ticket office is centrally located, and, adjoining the concourse, it is on the natural line of travel no matter at which side passengers enter. Special ticket openings are provided towards concourse should extraordinary occasion demand. A special feature of the ticket office is the absence of the usual counter grille and ticket case. The counter is entirely open. Information may be had or tickets purchased from the ticket agent without having him turn around or make unnecessary steps. A revolving ticket drum in the counter holds the ticket stock from which any ticket may be drawn.

The interior finish of station is of oak. The floor of the general waiting room is of California marble with "Tavernelle" marble wainscoting 7 feet high on verde-antique marble base. Walls above and the arched ceiling are in Caen stone finish.

The women's waiting room is finished in old ivory, with tile floor, and is tastefully equipped with rugs, drapery and lounging chairs.

Passengers find the baggage room conveniently located off the concourse, where parcels may be checked before entering gates to the train platforms.

The second and third stories contain the division offices.

The appointment throughout entire building is most convenient; nothing having been spared to make it attractive. News stand, parcel check, telephone and telegraph service, toilet facilities with free and pay toilets, are all on the main floor and of ready access from the main waiting room. Passengers after boarding trains may have telephone service on board until departure of train.

In each and every room is an electrically controlled clock. In connection with this system are chimes located in the attic which ring the quarter, half and full hour Westminster chimes.

A ventilating system changes the air in the rooms and the electric lighting is of the indirect system, making for good illumination without the glare of lamps.

At south end of building and connected to general waiting room by a corridor is a restaurant seating about 100 persons, where meals are served at tables and at counter.

A central heating plant with two 100 H. P. boilers, located in a separate building between Third and Fourth streets, furnishes steam for all buildings and coach yard and also air for air brake testing purposes.

The old passenger station, after being moved to new location, was remodeled into report rooms and locker facilities for train crews. One wing was assigned to the Hospital Department. A "First Aid" station was installed and fully equipped in keeping with Southern Pacific Company's hospital service.

The plans for the depot were prepared in the Southern Pacific Company's offices and the work carried out under the supervisio of the company's officers.

Mr. Wm. A. Newsom was general contractor for the passenger station and Van Sant-Houghton Company **for the "Unit Built" reinforced concrete umbrella sheds.**

Surveying Suisun Bay.

Government engineers have made a preliminary survey of Suisun Bay to ascertain what is required to facilitate deep water shipping interests and a report of the work has been sent to the War Department at Washington, D. C. Congressman Curry says that the report will no doubt be favorable to the proposed improvements.

Hetch-Hetchy Railroad Work.

All talk that F. Rolandi, who has the million and half dollar contract to build the electric railway from Rosasco to Hetch-Hetchy, for the City of San Francisco, intended to give up the job, was ended when he started work at Chinese. Four cars of lumber were shipped in to Rolandi at Chinese and he has a big force of men at work in that place building warehouses.

It is the plan to first build the seventeen-mile stretch from Jacksonville to Rosasco, as this is the more easily accessible from the railroad at Chinese. In the meantime, he will begin putting up the buildings needed to accommodate his workmen at Rosasco, and will then be able to care for all the men needed.

A goodly share of the work will be given to sub-contractors, but it will be necessary to provide accommodations for the hundreds of workmen who must be employed before construction can be completed.

Fig. 1. Southern Pacific Passenger Station, San Francisco, Third Street corner King Street.
Fig. 2. Main Waiting Room with Ticket Office.
Fig. 3. Ticket Office.
Fig. 4. Southern Pacific Station, corner Third Street and Townsend Street.
Fig. 5. Station Platforms and Umbrella Sheds.
Fig. 6. Southern Pacific Railroad Yard, showing Passenger Tracks and Umbrella Sheds in Background

Los Angeles County Sewage Plan.

A board of sanitary engineers is to be employed by the Supervisors to work out a scientific plan of sewage disposal for the entire county. This was decided upon at the conference between the Supervisors, members of the State Board of Health and representatives of a large number of the smaller incorporated cities. The board is to be composed of five members, who are to be appointed at an early date, and they are to be instructed to investigate conditions and make their report to the Supervisors.

City Officials at Sewer Meet.

Mayor Vandegrift and City Engineer Bayley of Pomona went to Los Angeles, Wednesday forenoon to attend a meeting which was called by the County Board of Supervisors for the purpose of discussing the matter of sewerage disposal in country towns. It is rumored that the Supervisors have under consideration an ordinance which will legislate out of existence the municipal sewer and garbage farms which have sprung up in Southern California communities in recent years and given rise to much good pork and considerable discussion and criticism both favorable and otherwise. In case the sewer farms should be legally abolished it would be necessary for the city to purchase an incinerator to dispose of its garbage.

Spaulding Drum Development of the Pacific Gas & Electric Co.

By George Nelson, C. E.

The Pacific Gas & Electric Co., which owns and operates a power system supplying power to the central portion of this State, also have owned and operated since 1905 an extensive irrigation system in Placer County, supplying water to the fruit lands in the neighborhood of Auburn, Newcastle, Loomis, Rocklin, etc.

This system obtained the bulk of its water supply from the South Yuba River, at the head waters of which 21 storage lakes have been developed from time to time with an aggregate capacity of about 45,000 acre feet. The lowest of these, known as Lake Spaulding, was located on the South Fork of the Yuba, and all the others drained through it.

In 1911 the Pacific Gas & Electric Co. found themselves in need of additional hydro-electric power and turned their attention to this system with a view to obtaining it. The scheme developed for this purpose involved the obtaining of additional storage at Spaulding whence the water was to be diverted into the Bear River water shed and three power water drops obtained on Bear River prior to its final diversion to the irrigation districts. After its final diversion from the Bear River at Colfax, three additional drops were planned as the water worked its way through the irrigated areas: one near Clipper Gap, one near Auburn, and one near Newcastle, the combined head from the six drops aggregated about 4,000 feet, and the average supply from Lake Spaulding available for power purposes was about 350 second feet.

Of these six developments, the first, the upper one known as the Drum Spaulding Development, has been constructed and two others known as Nos. 4 and 5 were started in 1913, but due to our latest financial stringency were shut down in the middle of that year after about one million had been expended and have not been opened up yet.

At Lake Spaulding a 305-foot dam was planned to impound approximately 95,000 acre feet of water. From Lake Spaulding a tunnel was planned to lead through the solid granite of the intervening ridge into the Bear River water shed. Nine miles of conduit, including some flume and pressure pipe were laid out to a point where a flat knoll provided favorable allowance for a 111 acre feet capacity forebay, beneath which on Bear River the power house under a 1,375 foot head was located. This station was planned to have a maximum installation of 10,000 K. W.

Design of Dam.

The dam as originally planned was to be a gravity section of concrete 305 feet from river bed. A small amount of concrete was actually poured in 1912 on this plan. At the end of 1912 Mr. J. H. Wise in charge of the project was killed, and Mr. F. G. Baum was put in charge. The F. G. Baum Co. advocated a variable radius arch shape of structure and the plans were revised along this line.

Work progressed on this plan to a height of approximately 60 feet, at which time as already mentioned financial conditions became difficult and it was decided to curtail expenditures by a reduction temporarily to a 260-foot structure. Still later when the structure had reached the 225-foot level, actually 240 feet above bed rock, the height of the dam was still further reduced and the work was terminated at that point.

The arch as designed for both the 305 and 260-foot structures was to have had a maximum stress of 24 tons per square foot assumed uniformly distributed over the arch section. The present structure figured as an arch will be stressed to approximately 16½ tons.

An inspection tunnel was constructed through the center of the mass, 7x9 feet in dimensions, and which extended into the cliff at its west end and terminated in the gate chamber of our outlet tunnel, from which point a vertical shaft was carried to the surface.

Into this inspection or drainage tunnel were extended up from the bed rock 8-inch diameter weepers, which were intended to relieve any upward pressure on the base of the structure by drawing off the water into the inspection gallery which connected with sluice way to the down stream face of the dam.

Similar vertical pipes were run continuous from the top of the inspection tunnel to the top of the dam paralleling its up stream face and placed in two rows across its entire length. These two rows were staggered so as to give uniform spacing between all weep holes of about 8 feet.

These were primarily designed in connection with the gravity type of structure to prevent the entrance of water for any considerable distance into the concrete mass and thus relieve any upward pressure which might tend to exist. They were retained in the arch structure to cutoff any leakage to the downstream face. Expansion joints on radial lines were extended through the arch about 80 feet centers. These were made by simply forming the concrete on one side of the joint and after allowing it to stand, removing the forms and pouring the new concrete against the old, thus leaving a line of weakness. All these expansion joints have opened up since the structure was completed.

Discussion of Arch Type of Structure.

The peculiar shape given to the upstream face of the structure by the variable radius feature of the design is here clearly brought out. Mr. Jorgensen, formerly of the F. G. Baum Co., claims that under favorable circumstances this type of structure may save as much as 10 per cent over a dam of the single radius type. In the structure at hand it is the impression that about 6 per cent was the theoretical saving over the ordinary arch type. I say "theoretical" saving not in belittlement of the "variable radius" principle, which I believe is theoretically correct, but because I do not feel that we actually know the stress existing in an arch dam within 5 per cent.

Such acquaintance as I have with arch dams which have been constructed would seem to show that their designers do not go into the design with as great care as do the designers of arch bridges. The usual procedure seems to be to assume the structure as a perfect circle under uniform load, and to therefore assume a uniform distribution of stress across the arch section. No attention whatever seems to be given to temperature, rib shortening, shrinkage or stresses liable to be produced thereby. While these stresses may not be very material in most of our arch dams, they should certainly be looked into as the span of the arch increases in proportion to its thickness.

I am positively very certain at least of one thing, which is that the Spaulding Dam is not under uniform stress across the arch section. This is very clearly shown when the dam is full as the expansion joints already mentioned are tightly closed on its upstream face as shown by the fact that little or no leakage flows into the inspection gallery, whereas I have seen a number of these joints on the downstream clearly open at the same time. I am therefore convinced that the stress is not taken uniformly by the arch ring.

The item of shrinkage is one which is important. The deflection of the Spaulding Dam has amounted to as much as 3½ inches with the reservoir full and a permanent deflection exists of about 2 15-16 inches with the reservoir empty. This is either due to shrinkage or to temperature change and must in some wise affect the distribution of stresses.

I see no reason why the design of an arch dam should not be as fully gone into as that of an arch bridge.

Construction Plant.

All materials were brought in by rail and dropped on to storage piles where they were handled by belts into the mixer house. In the upper floor of this building were separate bins provided for the various materials. On the second floor was the measure hoppers and on the first floor four one-yard concrete mixers of the Smith type. From these mixers the material was dropped by gravity into chutes and run into the dam.

During the early part of the construction an endeavor was made to use as many plum stones in the growing dam as possible.

Fig. 1. Drum Power House.
Fig. 2. Spaulding Dam, showing Construction Plant.
Fig. 3. Lake Spaulding.
Fig. 4. Lake Spaulding filling, showing New Dam in the center of the background and the Old Dam a little to the right rapidly being submerged. This is a good illustration of the obsolencence of a 60-foot rock fill dam. Any engineer connected with the various rate making bodies will take particular note of this. It has become usual in fixing rates to have canals, and all earth or masonry dams listed as of "indefinite life" and no allowance is made to cover depreciation or obsolescence of such structures. While there is perhaps no depreciation, the possibility of obsolescence as shown here is very real.

With this in view, a blast was planned on the north side of the gorge which was intended to supply loose material to be handled into the dam. The company's engineers decided that about 15 tons of powder would be necessary to accomplish the desired result. A powder expert was, however, called in, who was also a powder salesman, and he decided that 30 tons would be better. He had the courage of his conviction, however, as he was to fire the blast himself and to stand on the opposite of the gorge while so doing. Fortunately, however, the superintendent was a cautious man and arranged it so that the expert would stand in the then practically constructed outlet tunnel while performing this task. We very shortly afterwards went down and dug out the powder expert.

The rock was plugging the control works and flooding the dam proper. This threatened to be quite serious, but after several days work the control channel was cleared

When the dam was about half constructed the concrete was going in so fast that the derricks handling plum stones were unable to keep ahead of it, and their use was therefore abandoned. Up to this time about 16 per cent of plum stones had been obtained.

Tahoe Forest Reserve Syphon.

This structure is of interest chiefly for other than engineering reasons. It is about 1,700 feet long under an approximate head of 230 feet. Down to a head of 190 feet it is 96 inches diameter of wood stave pipe of 3-inch thick redwood staves. Below that point it is of riveted steel butt strap material. It is used for reasons of policy to by-pass a section of the Tahoe Forest Reserve, which crosses the proposed canal line at this point.

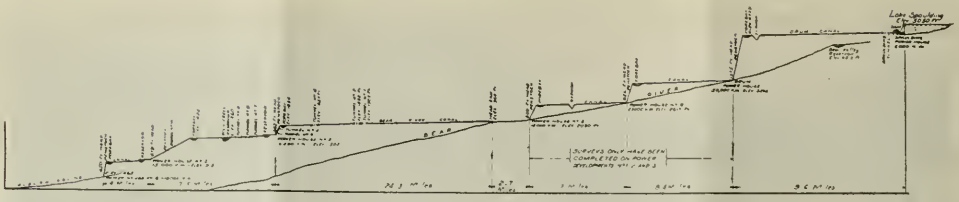
One corner of the Tahoe Forest Reserve cut across the canal line but extended only a few hundred feet beyond it on the downhill side. The syphon pipe was therefore run from the canal at the Forest Reserve boundary to the east, down the hill, around the corner of the Reserve and up again on the west side until it again intersected the canal grade. The structure cost in the neighborhood of $70,000 and the company deemed it advisable to expend this amount rather than to cross the Government land, under the conditions imposed by the Government.

The laws governing Forest Reserves are such that a permanent right of way cannot be obtained across such lands without a change in the fundamental laws themselves. We would, of course, liked to have had a permanent easement across this strip, and would have been glad to accept a temporary permit had the conditions attached to such permit been less burdensome than we found them.

The amount of right of way required in this reserve would have occupied less than two acres of ground. For this was required a rental ranging from about $80 the first year to about $800 in the tenth year and thereafter. This the company would have been glad to pay.

The obtaining of a final permit (the regulations of the Forestry Service come under the jurisdiction of the Secretary of Agriculture and are subject to change by him) requires the permittee to sign an agreement containing about thirty clauses whereby the permittee is required to bind himself to various and sundry conditions.

Among others in connection with the fixing of rental—"it being further understood that at any time not less than ten years after the issuing of a



permit, the Secretary may review such rental rates and impose such new rental rates as he may decide to be reasonable, provided that such rental rates shall not be so increased as to reduce the margin of income to an amount which is unreasonably small; but the proving of such unreasonableness shall rest upon the permittee."

This involves additional regulations and the company feels that it is quite thoroughly regulated already. But this was rather one of the minor matters and would not have forced the issue. The real difficulty lay in Article 28, National Forest Manual.

The signing of such an agreement would mean not only that the right of way across the Forest Reserve was revocable, but that the whole project from A to Z would then fall under Government control to such an extent that at any time when the Government should desire it might revoke this permit and at the same time require the surrender not only of this strip of land but of the entire property to itself, to a State or municipality and at a price to be practically fixed by a Government representative.

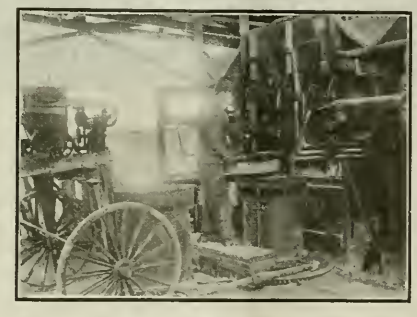
The conservation of two acres of land at an annual rental of $800 would look like good conservation from a public viewpoint, instead of which the public or rather the utility consumers will now have to pay the interest charges on an investment of $70,000 without any return to the public pocket whatever. It seems to the writer that where rules are drawn which are clearly intended to fit the case of a development lying entirely within the Forest Reserve, provision should be made to modify such requirements in special instances as the present.

The engineering profession, as a whole, I believe, should interest themselves in bringing about some adjustment of regulation of public lands so as not to deter the development of their possibilities.

*Impressions of a paper read before the San Francisco Association American Society of Civil Engineers by H. C. Vencano, Chief Engineer Pacific Gas & Electric Co., San Francisco.

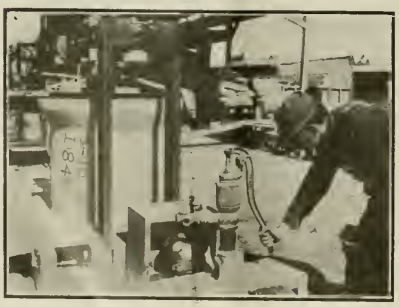
Fresno County Board Accepts New Concrete Bridge Near Elkhorn.

The Board of Supervisors of Fresno County have accepted the new reinforced concrete bridge at Elkhorn. An inspection of the bridge has been made by the Supervisors, the County Surveyor and the contractor. Scott McKay, County Surveyor, has filed notice of completion of the bridge according to specifications. J. E. Mitchell was the contractor. The bridge cost $12,000, and is the only bridge in the county built entirely of concrete, trusses and all.



Making Concrete Sewer Pipe.

Storing and Curing Concrete Sewer Pipe.



Testing Concrete Sewer Pipe.

Laying Concrete Sewer Pipe.

Long Beach New Concrete Pipe Sewer Completed.

By George Nelson, C. E.

The most notable concrete pipe sewer job has just been completed in Long Beach by Bent Brothers of Los Angeles, and a short synopsis of the amount and class of pipe and its mode of manufacture is given below.

Pipe and Pipe Making.

There is 2,640 feet of 10-inch machine made concrete pipe.

There is 6,178 feet of 12-inch machine made concrete pipe.

There is 8,381 feet of 18-inch machine made concrete pipe.

There is 2,532 feet of 20-inch machine made concrete pipe.

There is 7,989 feet of 22-inch machine made concrete pipe.

There is 1,320 feet of 24-inch machine made concrete pipe.

There is 1,145 feet of 27-inch machine made concrete pipe.

There is 16,267 feet of 30-inch machine made concrete pipe. All of the bell and spigot type, made in 2½ foot lengths.

There is 5,000 feet of 33-inch handmade reinforced concrete pipe.

There is 12,000 feet of 48-inch hand made reinforced concrete. All made in three-foot lengths.

All pipe 30-inch and under was made on the Thomas-Hammond New Model Mixing and Pipe Making Machine and is exceptionally dense and hard.

All factory-made pipe going into the system was tested at the factory. The 10, 12, 18, 29, 22, 24, and 30-inch sizes stood forty pounds pressure without seepage or fracture.

For all sizes from 10-inch to 30-inch the mixture was 1 part of cement to 3 parts of aggregate; the aggregate being mixed about one-half sand and one-half rock, or so as to make the densest mixture possible of the materials at hand. For the reinforced pipe the mixture was 1 part of cement, 2 parts of sand and 4 parts of rock. The sizes of the shell were:

1 inch thick for 10-inch pipe.
1 inch thick for 12-inch pipe.
1½ inch thick for 18-inch pipe.
1¾ inch thick for 20-inch pipe.
1⅞ inch thick for 22-inch pipe.
2 inches thick for 24-inch pipe.
2¼ inches thick for 27-inch pipe.
2½ inches thick for 30-inch pipe.
3¾ inches thick for 33-inch pipe.
5 inches thick for 48-inch pipe.

Reinforcements.

Electrically welded spirals quarter inch and three-eighths inch wires with four space bars of corresponding size, all according to load on top of pipe. Spiral coils manufactured by the Electric Welding Company of Pittsburgh were shipped from the east collapsed, space bars inserted and tied with Curry tier in the field.

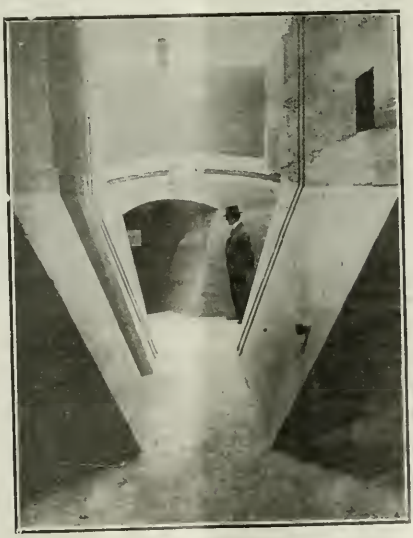
Disposal Plant.

The foundation, screen pit, pump pit, the building and the chimney are all built of concrete. The effluent after having passed the screen is pumped out into the ocean through the 1,100-foot long outlet pipe, which is of cast iron, bell and spigot joints with an occasional specially cast joint to better conform to the ocean bottom. The pipe is laid on reinforced concrete piles driven into and flush with the ocean bottom, and held in place b reinforced concrete piles driven on each side and close to the pipe.

The complete plant at Long Beach cost $39,400, and is able to take care of the sewage of a city of 50,000 people.

Concrete Pump and Screen Pits, Long Beach Sewage Disposal Plant.

Reinforced Concrete Building for Long Beach Sewage Disposal Plant.



Concrete Inlet and Screen Chamber, Long Beach Sewage Disposal Plant.

Some Notable Concrete Structures on the New York Barge Canal.

By Harlan D. Miller, C. E.

Statistics New York Barge anal.

	Miles
Length of Barge Canal, all branches	528
Erie, length	328
Oneida Lake, additional	19
Syracuse and Rochester spurs	10
Champlain branch	61
Oswego branch	.23
Cayuga-Senaca branch	27
Cayuga and Senaca Lakes	65

Locks in Erie branch, 35; locks Champlain branch, 11; locks Oswego branch, 7; locks Cayuga-Senaca branch, 4.

New dams, 28; old dams with new crests, 6; old dams used without change, 5.

Bridges, 290.

Construction started on Champlain April 24, 1905; on Erie, June 7, 1905.

The Erie, or main branch of the Canal System, runs across the State from the Hudson River at Troy to Tonawanda, from which point the Niagara River is followed to Buffalo on Lake Erie. The Oswego Canal branches from the Erie at a point north of the city of Syracuse and extends northward to Oswego where it joins Lake Ontario. The Champlain branch runs northward along the easterly boundary of the State from Troy to Whitehall at the southern end of Lake Champlain. The Cayuga-Seneca Canal, branches from the Erie at a point west of the junction of the Erie and Oswego Canals and connects the two lakes from which its name is derived.

This magnificent waterway extends across a varied country, making necessary the constant combatting of engineering problems, which were made more difficult by the restricted territory owned by the State, which tried to avoid the expenditure of its money in damage claims. The channel is at all points 12 feet deep at low water, while the bottom width varies according to the nature of the ground. In earth sections the width is 75 feet; in rock cuts 94 feet, while in the beds of rivers and lakes the width is 200 feet. All the locks are massive structures of concrete and the gates and valves are operated by electricity. Each lock is 328 feet long and 45 feet wide and has a usable length of 310 feet with a maximum capacity using full lock width of 3,000 tons. No towpath is provided and barges must be propelled by other means than animal power as in the past. Terminal dock walls have been constructed along the route of the canal, each being so constructed as to meet the needs of the district it serves while some will have warehouses and each will have the most modern and improved machinery for the loading and unloading of barges.

At the entrance to the Barge Canal at Troy the channel is reached by passing through a series of five great locks, which constitute the greatest flight of lift locks in the world, and which have a combined lift of 169 feet. These five locks do the work of the old ones at Cohoes Falls, which are known as "The Old Sixteens," because they are sixteen. The water with which these locks are operated is obtained from a curved dam, known as Crescent Dam, which is 1,922 feet in length and extends in a semicircle on a radius of 700 feet, creating an artificial lake 10 miles long, a mile wide in places and raising the Mohawk River 27 feet. At this point a hydro-electric station has been built, which supplies the electricity used in operating the locks and guard gates. The lock gates weight 80,000 pounds for the upper and 207,000 pounds for the lower gates and are constructed of steel.

From the Hudson River above Troy to Utica the canal rises 405 feet, this height being attained by a series of nineteen locks and by passing eight movable dams. At Little Falls some of the most difficult and masterful work on the entire canal was accomplished. At this point the Mohawk rushes through a rocky gorge, and in order to approach the river the engineers were forced to blast through a solid mass of rock and construct a lock with a lift of 40 feet 6 inches, this being the highest single lift of any lock in the world at the time of its construction.

North of Rome, N. Y., two gigantic dams called the Eastern or Delta and the Western or Hinckley Dams have been built. The Hinckley Dam is 3,700 feet long and is constructed of earth rising 56 feet the natural surface of the ground. This creates a reservoir 4.46 square miles and provides for the storage of 3,500,000,000 cubic feet of water. The Delta Dam is 1,100 feet long and is built of concrete. It creates a lake 4½ square miles and provides for the storage of 2,750,000,000 cubic feet of water. This water is used to keep the channel at its minimum depth of 12 feet during the dry season.

West of the Rome level the canal drops to the 369-foot level of Oneida Lake, from which point the Oswego branches and is connected with Syracuse by a spur. The Oswego rises 244 feet to Lake Ontario, the height being attained by 8 locks. West of this junction the Cayuga-Senaca branches southward to Lakes Cayuga and Senaca, from this junction the Erie rises to the 565-foot level of Lake Erie.

The new channel was officially opened on Saturday, May 15th, from Troy to Rexford Flats, or a distance of about 20 miles while over 169 miles of the new canal system will be open to traffic during the present season. In opening the new waterway, Governor Charles S. Whitman and State Engineer Frank M. Williams, with other State officials passed through the new locks at Waterford and continued to Rexford, a stop being made at Crescent Dam, where the new lake was officially named Lake Crescent by the Governor.

From Rexford Flats, where the old Erie is entered, the work is completed or under contract as far west as the junction of the Cayuga-Seneca Canal, or to about the middle of the State, with the exception of a small contract east of Utica. From the junction of the Cayuga-Senaca on to Lyons, N. Y., there is a stretch of about 15 miles long not under contract, while from Lyons on to the small town of Fairport the new canal is finished and will be used this year. From Fairport on to Rochester there is another stretch of about 20 miles long which is not under contract, necessitating the using of the old channel to this city. From Rochester to Tonawanda the new waterway is completed and is at present in use.

The Oswego Branch is all but completed and is in full operation this year. It could be used to its full capacity were it not for the work being done on the Erie or main branch.

The Cayuga-Senaca is rapidly nearing completion and there is no reason to believe that it cannot be opened to traffic next spring.

The Champlain Canal is either completed or under contract, with the exception of a small section south of the town of Northumberland, from which point the new channel is entered and followed to Whitehall, the terminal, on Lake Champlain.

A comparison with the Panama Canal will show that the highest lift of any flight of locks on the Panama Canal is 87 feet, while the locks at Waterford have a combined lift of 169 feet, or nearly double the lift of those on the Panama. The total lift of all locks on the Barge Canal is 1,050 feet, while the total lift of the Panama locks is 170 feet. The cost of the Barge Canal will be about $150,000,000, and is borne by one State in the Union. The cost of the Panama Canal is $375,000,000 and is borne by every State in the Union.

New York has good reason to be proud of the great work it is doing and of the engineers who have helped accomplish this work. Alone and unaided, New York first undertook and completed the construction of the Erie Canal, thereby producing the first "practical" engineers, as distinguished from surveyors, in the history of the Nation. This same State has now spent over $101,000,000 in the building of a modern Barge Canal, and contemplates the expenditure of millions more to complete an inland waterway, which not only rivals any canal in the world, but which will benefit the inland shipping of the Nation just as the Panama Canal will benefit the shipping of the world.

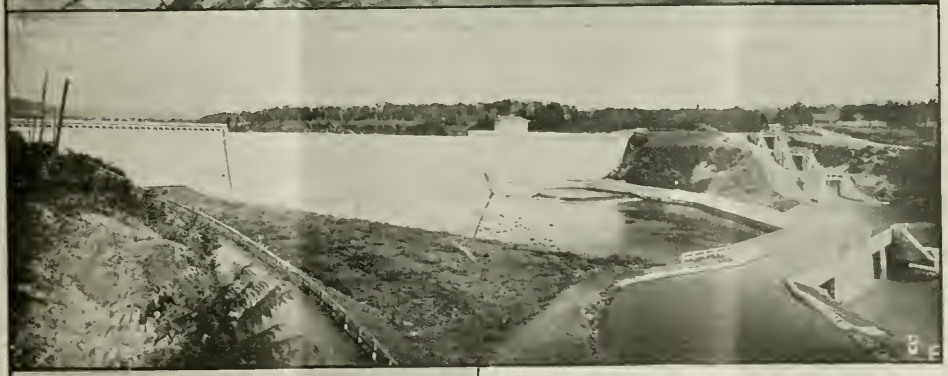


Fig. 1. Siphon Lock at Oswego. This is the largest Canal Lock of this type in existence and is the first to be built in this country.

Fig. 2. Crescent Dam above Waterford. This dam creates an artificial lake over ten miles long and a mile wide and provides for the storage of water with which the Five Waterford Locks are operated. Hydro-electric power station on extreme right.

Fig. 3. Delta Dam. This gigantic dam is located north of the City of Rome N. Y., and is 1100 feet long and contains 90,000 cubic yards of masonry. It creates an artificial lake 4½ square miles and provides for the storage of 2,750,000,000 cubic feet of water. This is obtained from a watershed of 127 square miles, and is used to keep the canalized Mohawk River at its 12-foot minimum depth in the dry season, the water being let out as required

Fig 4. Lock No. 2 at Waterford near Troy. It will accommodate six of the barges at present in use on the Erie Canal. This lock is the first of the five in this flight, whic have a combined lift of 169 feet.

Kern County Concrete Roads.

By George Nelson, C. E.

Laying Concrete on the Bakersfield-McKittrick Road: Kern County.

In the construction of the Bakersfield-McKittrick road as a Concrete Road, Kern County has followed the example set by the Sate of California and of several southern counties. This road, which is Division 5 of Section 2 of the Kern County Roads, is 16 feet wide and 5 inches thick, and amounts to 77,915 suare yards of cement concrete. The county furnished the cement, which in this case was Golden Gate Cement; the asphaltic road oil and the stone screenings.

A few extracts from the specifications will show the class of work required:

Concrete Pavement with Bituminous Wearing Surface.

44. Before the concrete pavement is laid, the roadbed shall be graded to a true cross-section, conforming to the grades given by the engineer and the section called for on the plans. It shall then be watered, and rolled with a roller weighing not less than ten (10) tons, until the surface is hard and unyielding. The width to be rolled shall include not less than one foot on each side of the pavement to provide satisfactory support for the forms. Depressions shall be filled with fresh material and the watering and rolling continued as before. Where a uniform and unyielding surface cannot otherwise be obtained, the surfaie shall be cultivated and again rolled until a uniform, smooth and firm foundation is secured. No concrete pavement shall be laid or material deposited upon the road bed until it is in a condition satisfactory to the engineer. Shaping road-bed will be paid for at the price per linear foot of highway named in this contract.

45. After the road-bed has been prepared as heinbefore specified, forms shall be constructed, satisfactory material for which shall be furnished by the contractor. The proposed concrete pavement is to be supported on each side by two-inch by five-inch (2x5-inch) redwood lumber, planed straight on two edges. The forms are to be set true to the lines and grades given by the engineer and held in place by stakes not less than eighteen (18) inches in length set at such intervals as may be necessary to insure rigidity. The stakes shall be flush at the top with the side strips and the entire form work constructed in a substantial and workmanlike manner. The forms are not to be removed, but are to remain as part of the completed work.

46. All cement for concrete pavement will be furnished by the county. It will be Portland Cement, conforming with the Standard Specifications for cement adopted in August, 1909, by the American Society for Testing Materials

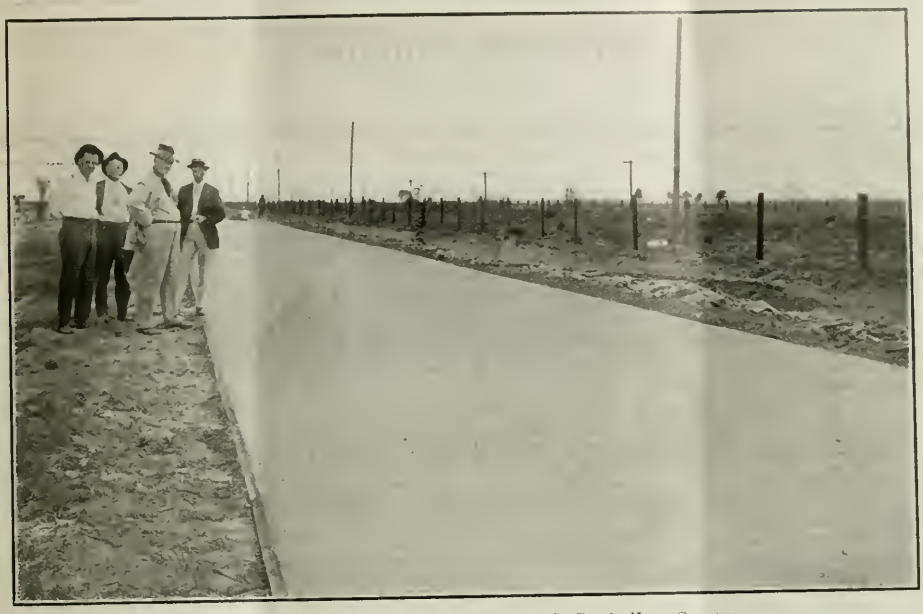
47. The cement shall be suitably protected from the weather and piled so as to permit om access for tally, inspection and identification of each shipment. It will be delivered in the original package with the brand and the name of the manufacturer plainly marked thereon. The contractor shall be held responsible for the proper protection and safety of the cement after delivery by the county. He shall also collect and make prepaid return of empty cement sacks, and all shortage of cement or sacks shall be charged to his account.

48. The concrete shall be composed of broken stone or screened gravel, and sand—all of which shall be clean, hard, durable well graded and satisfactory to the engineer—Portland cement and fresh clean water.

49. The sand shall be of such size that all of it will pass through a screen having four (4) meshes per linear inch, and at least forty (40) but not more than eighty-five (85) per cent, by weight will be retained on a sieve having thirty (30) meshes per linear inch. Not more than seven (7) per cent by weight shall pass through a sieve having one hundred (100) meshes per linear inch.

50. The broken stone or gravel stones may vary in their longest dimensions from one-half (½) of an inch to two and one-half (2½) inches.

51. oncrete materials shall be pro-



Finished Concrete on the Bakersfield-McKittrick Road, Kern County.

portioned as follows: One (1) cubic foot (94 pounds) of cement, two (2) cubic feet of sand, and four (4) cubic feet of broken stone or screened gravel, and water which shall be added in such proportions as the engineer may from time to time determine.

52. If the concrete is mixed mechanically, a mixer shall be used which is satisfactory to the engineer, and into which the materials, including the water, can be precisely and regularly proportioned.

53. Hand-mixed concrete shall be mixed on a tight, level platform, as follows: The cement and sand shall first be thoroughly mixed dry, in the proportions specified. Clean water shall then be added and the materials thoroughly mixed and deposited on the broken stone or screened gravel, which shall have been previously drenched with water. The ingredients shall then be thoroughly mingled and turned over until each stone is covered with mortar. The batch shall be carefully deposited without delay and thoroughly rammed until the water flushes to the surface and all the voids are filled. Should defective work be discovered it is to be removed and the space refilled with fresh material as directed by the engineer. No allowance shall be made for any materials or labor necessary on account of water.

54. The concrete is to be brought to a true and uniform surface conforming to the grade and cross-section of completed roadway as shown on drawings, by means of templates and such other implements as may be necessary. While the concrete is still plastic it is to be finally finished with steel floats and given a granolithic surface, which must be free from any unevenness.

55. During warm and dry weather, and whenever the engineer may direct, all newly-built concrete shall be kept shaded from the sun and well sprinkled with water.

56. All concrete shall be measured in accordance with the dimensions shown on the plans and cross-sections.

57. Concrete pavement will be paid for at the unit price per square yard for concrete pavement in place complete, which price shall include the furnishing of all materials, all labor, tools, implements, forms and all work on same, and everything incidental and necessary to the completed work, except as herein otherwise specified.

58. After the concrete pavement has been constructed as hereinbefore specified, all dust, mud, earth or foreign material of any kind which may have accumulated upon it shall be removed and the surface flushed with water. When it has become sufficiently hard and dry, and in the opinion of the engineer is ready to receive it, asphaltic oil which will be furnished by the county, shall be applied at the rate of approximately one-third (⅓) of a gallon to the square yard. All of the work hereinbefore and hereafter provided for shall be performed by the contractor.

59. Directly after the oil has been applied, stone screenings shall be uniformly spread upon it in sufficient quantity to combine with the oil without leaving any excess screenings on the finished road surface. The stone screenings are to be spread in a direction parallel with the road and never cross-wise. If necessary, from time to time additional screenings shall be spread, as the engineer may direct, to cover any oil which comes to the surface, until the final completion and acceptance of the work. The stone screenings will be furnished by the county as specified in paragraph 7 hereof, and spread by the contractor in a manner satisfactory to the engineer.

60. The contractor shall exercise due precaution to prevent damage to the work during the various stages of construction. He shall, whenever necessary, construct fences or barriers to prevent travel from passing over the concrete pavement until it has been in place at least seven (7) days, or over the oiled surface before the pavement is completed. Any dust, mud, earth or other foreign material carried or deposited upon the concrete pavement which is to be oiled, or upon any oiled surface, shall be removed by the contractor at his own proper expense, and the surface thoroughly cleaned before further work progresses.

Calexico May Build Road to Bond's Corner.

Citizens of Calexico, all stirred up over the certainty that they are about to lose the State Highway from the valley to Yuma, are now proposing to build the road themselves from Bond's Corner into Calexico at once, so that the State Highway Commission in laying the route will have this to consider.

Mr. City Official:

A proposal ad in the **"Building and Engineering News"** will bring you inquiries and real competition on your public work: that's what you want!

Concrete Chimneys.

By George Nelson, C. E.

The use of reinforced concrete in the construction of factory chimneys is of rather recent date and a review of some of the most typical examples of this kind of construction in Southern California is hereby presented to our readers.

In the summer of 1911 the Standard Oil Company bought the 840 acres at El Segundo on the Santa Monica Bay in Los Angeles County and immediately began the construction of their refinery.

Bent Bros. were chosen as the contractors to build the outlet tunnel for the waste water, and when the question of the chimneys came up they were also authorized to build these, eight in number and of various sizes, according to plant requirements.

The forms used are made of yellow pine and consist of "straight" units and "reducer" units, the same number of "reducer" units is used in large chimneys as in small ones, and they are uniformly distributed in the form and the same number is kept in the form no matter how high the chimney is. A certain number of straight units are removed as the work goes on, to give the taper.

The outside forms are held in position by cables and the inside forms by flat steel bars bent to the upper curvature.

The forms are evenly and accurately spaced and great care is taken to have them plumb and level before the platforms and scaffold is carried up ready for the pouring of the concrete.

The foundation for the chimney is heavily reinforced with ½-inch square twisted steel bars, laid at right angles with each other and parallel to the sides and also diagonally.

The concrete for this is made of 1 part of cement, 3 parts of sand and 5 parts of crushed stone or gravel, largest size 1¼ ioch.

The reinforcement for the chimney consists of ½ inch square twisted steel bars spaced according to the requirements of height of the chimney, evenly spaced overlapping about 30 inches and the horizontal rings are composed of ½-inch square twisted steel bars, overlapping 16 inches and wired to the vertical bars and spaced 14 inches apart, making 3 bars for every 3½ feet of form.

The concrete for the chimney is made of 1 part of Portland cement, 2½ parts of sand and 4 parts of gravel. All sand and gravel is measured in boxes to secure uniform mixture.

The concrete is mixed on the ground and hoisted in buckets.

At El Segundo there is one large chimney for the main boiler plant and seven small ones for the different stills and the acid plants.

The large chimney is 125 feet high and 10 feet inside diameter at the top and about 12.25 feet at the bottom with uniform taper.

The wall is 9½ inches thick at the bottom and 5 inches thick at the top. The large chimney took 230 barrels of cement, 94 cubic yards of sand, 151 cubic yards of gravel and 5 tons of square twisted steel bars for reinforcement.

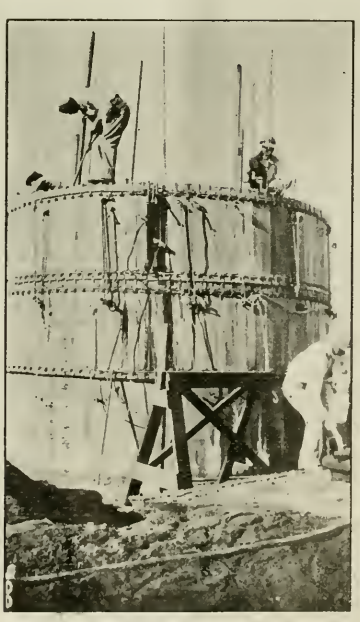
It took about nine weeks to build it.

The small chimneys took each 79 barrels of cement, 32 cubic yards of sand, 52 cubic yards of gravel and 2 tons of reinforcing steel. It took from four to five weeks to complete a small chimney.

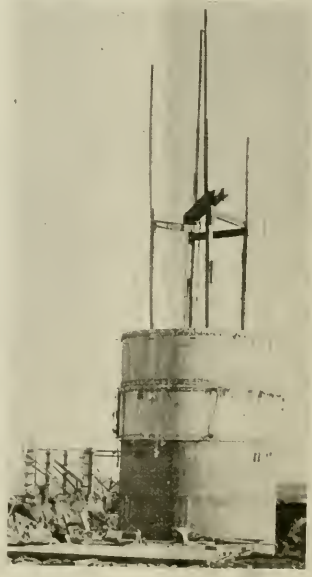
The four small chimneys were 80 feet high and 6 feet in diameter at the top. The wall was 6⅞ inches thick at bottom and 4 inches thick at top. They were lined with common brick laid in fireclay and were built for the stills.

Two small chimneys were 50 feet high and were built for the acid plant.

Bent Bros. also built three reinforced concrete chimneys for the Standard Oil Company at their plant at Bakersfield. Each of these chimneys was 80 feet high and 7 feet in diameter at top. These chimneys each took 85 barrels of cement, 25 cubic yards of sand, 30 cubic yards of gravel, 33 cubic yards of crushed rock and 3,155 pounds of reinforcing steel. Each of these chimneys took about six weeks to complete.



Starting Still Chimney.



Still Chimney Under Construction Showing Scaffold and Hoist.

Items of Interest.

By George Nelson, C. E.

THE MOUNT WHITNEY ROAD.

The Board of Supervisors of Kern County last fall appointed a committee of viewers to survey and report on that portion of the proposed Mount Whitney road which lies in Kern County. This committee has just filed its report which reads as follows:

"To the Honorable Board of Supervisors of Kern County.

"Gentlemen:

"We, the undersigned viewers appointed by you to view and lay out a proposed county road as petitioned for by M. S. Hall, Weldon; W. A. Wirth, Kernville; L. Rankin, Onyx; C. F. Johnson, James Curran, H. E. Metzner, Walter I. Hand, J. F. Dugan, Leo G. Pauly, C. A. Barlow, Bakersfield; from Weldon to the Kern-Tulare line, have performed that duty and beg to submit the following report:

"Commencing at a point on the Kern-Tulare line and running in a southerly direction toward Weldon, we surveyed a preliminary line, being careful in every instance not to exceed a maximum grade of 8.5 per cent. We succeeded in reaching Weldon with a distance of 13.4 miles.

"The profile attached shows the maximum and minimum grades, drainage to be taken care of by culverts and bridges and the approximate cuts and fills, though in a great many instances these cluts and fills will be materially lessened when the curves are staked and located so that these cuts and fills as now shown must not be observed in all instances as the final location of the road.

"Cross sections were taken at intervals not exceeding 200 feet and an estimate of the yardage to be removed calculated for each mile.

"The material to be moved throughout the entire length of the road is earth and rock, the rock being granite in a more or less disintegrated form, loose boulders and ledges of rock in place. The yardage to be moved is tabulated as follows:

	Cubic Yds.
Rock	26,737.80
Earth	12,902.20
Embankment	22,067.30

"We suggest that simple bridges be used for the larger drainage areas. For the smaller drainage areas we recommend the use of 15-inch corrugated pipe of the length shown on the profile.

"The road should be granted a 60-foot right of way on account of the excessive steep slopes in order that the toe of the slope may be in the clear from brush and other foreign matter which is very detrimental to good construction.

"Respectfully submitted,

"JOHN NEILL, Viewer,

"A. J. CRITES, Viewer,

"A. M. BARTON, Civil Eng."

EFFECTS OF ELECTROLYSIS ON REINFORCED CONCRETE STRUCTURES.

By Albert F. Ganz, M. E., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J.

To cause damage to a reinforced concrete structure by electrolysis, an electric current must flow between the reinforcing steel and the surrounding concrete. Such current may be leakage current from a direct-current lighting system or stray currents flowing through the building. The conditions required for producing electrolysis of steel embedded in concrete are such, however, that this can result, in the case of reinforced concrete structures, only in special situations; for example, where there is an excessive voltage drop through the earth at the foundations of the building; or where stray current is brought by way of service pipes or cable sheaths into the building and to the reinforcing steel; or where there is a direct contact between the reinforcing steel and one side of a direct-current lighting system, the other side of the system being grounded. It is, therefore, a wise precaution to install insulating joints in all pipes and lead sheaths of cables which enter a reinforced concrete structure. It has been proposed to protect reinforced concrete structures by making the reinforcing steel electrically continuous throughout, and connecting it to the negative terminal of the source of stray current or of a low-voltage generator. While this would prevent corrosion of the steel by electrolysis, it might result in the destruction of the bond between the reinforcing steel and the concrete, which results when current flows from concrete to steel.

$260,000 Highway Planned by Natomas.

Plans are now being formulated for the commencement of work during this coming summer on a paved road that will connect Sacramento with Vernon and will run along the west levee of the Natomas holdings, which is on the east bank of the Sacramento River. The road will be constructed by the property owners in District 1,000, which is a Natomas holding.

The road would commence at the end of Twelfth street and from that point to Vernon it is a distance of twenty miles. The estimated cost of construction of the road is $10,000 per mile.

Besides connecting the district with Sacramento, the road also will afford opportunity for Sutter County people to connect onto the road and have access to Sacramento along an improved highway.

Bent Bros. Apply for Acceptance of Their Long Beach Concrete Sewer Work.

Contending that they have completed all the work required of them under their contract with the city, the Arthur S. Bent Construction Company, composed of the Bent brothers, have made formal application to Works Commissioner C. J. Hargis of Lang Beach, Cal., for acceptance of the main outfall sewer system.

In the private letter written to the commissioner, Arthur S. Bent, head of the construction company, replies to his critics and calls the attacks unjustified, malicious and unfair.

"This company has done thousands of dollars worth of work in the west and we wish to state that the recent declaration of a prominent engineer to the effect that Long Beach has one of the best sewer systems in the country is absolutely correct," says the letter.

Handling his defense in a straightforward manner, Mr. Bent brands as untrue the statement of Capt. A. N. Milner, former chief inspector, that the sewer system would be a ruin by the time the bonds were paid for.

Stanislaus County Good Roads Petition.

Action on the petition calling for the inauguration of a plan for providing good roads for Stanislaus County was finally taken by the County Board of Supervisors after numerous delays.

Two courses of action were open to the Board in the matter. The State law allows them to appoint a highway commission, which would take entire charge of the work of inspecting the county's needs, map out the roads which they think most advisable to approve, determine the type of construction and other matters preliminary to submitting the proposition to the voters. The other alternative is for the Board to retain this power in its own hands, and appoint an advisory committee, which will investigate the road problem and make recommendations to the Board but will have no power itself to take any official action.

The latter course was the one decided on by the Board. No further action wast taken, however, and the advisory board will probably be named at next month's session.

CLINTON DAY ESTATE VALUED AT $60,0000.

BERKELEY, Cal.—The estate of the late Clinton Day, local architect, is valued at $60,000, according to a petition for letters of administration filed in Oakland by Frank D. Stringham, who declared that Day left no will. Day was designer of several buildings at the University of California as well as numerous business houses in San Francisco. He leaves a widow and daughter at 2717 Bancroft Way, this city.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

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COLOSSAL OLD RUINS.

The oldest architectural ruins in the world are believed to be the rock temples at Ipsampool, on the Nile in Nubia. One of the ancient temples consists of fourteen apartments hewn out of solid stone. The largest single stone used in this work is one which forms a veranda-like projection along one side of the main temple. It is 57 feet long, 52 broad and 17—one account says 19—feet thick. This colossal stone is supported by two rows of massive square pillars, four in each row and each 30 feet high. To each of these pillars is attached a colossal figure of a human being, reaching from floor to roof. In front of the main temple are seated still other colossi, four in number, the two largest being 65 feet high. The ruins are supposed to be four thousand years old.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architect, Theo W. Lenzen, Humboldt Bank Bldg., S. F. Owners, Kierman & O'Brien, 1756 Mission street. Location, northwest Van Ness and Vallejo, covering an area of 30 by 86½ feet. Will contain one store and eight apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Central heating system, oil burning plant and hot water supply. Wall beds. Tile and composition in bath rooms. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

SAN FRANCISCO—Apartment house alterations, 5 story and base. Class C, $25,000. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, R. D. Frye. Location, Polk and Bush streets. Work will consist of altering first floor office and constructing lobby and lounging rooms. Additional baths will be installed. Word includes plumbing, plastering, electric work, painting and interior finish. An ornamental iron marquise will also be constructed. Plans are complete and work will be done by Day Labor.

SAN FRANCISCO—Apartment house, 5 story and base, reinforced concrete. Cost not stated. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Lange & Bergstrom, Sharon Bldg., S. F. Location, Post between Jones and Leavenworth. Segregated figures are now being taken by the owners on the following parts of the work: Excavating, rock, gravel, cement, reinforcing steel, structural steel, brick work, face brick, common brick, architectural terra cotta, hardwood flooring, mill work, stairs, finish hardware, ornamental iron, painting, wall paper, metal lathing and furring, plastering, sheet metal, patent flues, composition roofing, glazing, marble, tile, plumbing, incinerator, vacuum cleaner, heating, oil tank, 5,000-gallon water tank, hot water heater, oil burner, electric wiring, electric fixtures, elevator and electric dumb waiter.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $21,000. Architect, J. F. Dunn, Monadnock Bldg., S. F. Owner, W. H. Humphrey, First National Bank Bldg., S. F. Location, north Pine west of Leavenworth. Will contain a number of two and three room apartments with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and a hot water supply. Bath rooms tile. Exterior covered with rustic and cement plaster. Revised plans complete and contract to be let at once.

OAKLAND, CAL.—Apartment house, 4 story and base, brick and steel, $70,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, 24th and Telegraph. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior finish pine and hardwood veneer and hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Bath rooms tile. Exterior faced with pressed brick. Plans complete and owners taking subfigures.

OAKLAND, CAL.—Apartment house, 4 story and base, brick and steel, $75,000. Architects, Hutchinson & McLean, 470 13th street, Oakland. Owner's name withheld. Location, 13th and Brush streets. Will contain a number of two, three and four room apartments. Interior finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, automatic elevator, hot water supply, vacuum cleaning and oil burning system. Wall beds. Bath rooms finished in tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

SAN FRANCISCO—Apartment house and stores, 6 story and base, reinforced concrete. Cost not stated. Architect, L. M. Garden, Phelan Bldg., S. F. Owners, D. & S. Investment Co. Location, southwest Ellis and Hyde streets, covering an area of 56½ by 82½ feet. Will contain four stores besides the entrance on the first floor. Upper floors arranged for 42 suites of two and three rooms. Private baths and wall beds. Interior finish pine and hardwood veneer. Hardwood floors. Automatic elevator, steam heat, hot water system and oil burning plant. Bath rooms tile. Patent store fronts. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owner, Chester Woolsey. Location, south McAllister east of Divisadero. Will contain stores on the first floor and a number of two and three room apartments on the upper floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and a hot water system. Oil burning plant. Patent store fronts. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owner, John F. Whalen. Location, southwest corner 41st and Manila streets. Will contain sixteen rooms arranged in suites of and three rooms with private baths and wall beds. Interior finish pine. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans being prepared.

SEATTLE, WASH. — Apartment house, 3 story and base, brick. Cost not stated. Architect, B. D. Stuart, Lumber Exchange Bldg., Seattle. Owner's name not given. Location, Denny

Way. Will contain fifty suites of two and three rooms with wall beds and private baths. Interior finish pine and elm panels. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

BATH HOUSES.

PASADENA, LOS ANGELES CO., CAL.—Plunge, reinforced concrete, $10,000. Architect, Joseph F. Rhodes, Central Bldg., L. A. Owners, Midwick Country Club. Plans have been completed for a plunge 35 by 75 feet and figures will be taken at once. Plunge will be lined with enamel brick. Plans can be secured from the architect.

Contracts Awarded.

SEATTLE, WASH.—Bath house, 1 story and base, reinforced concrete, $150,000. Architect, B. Marcus Pretica, Pantages Theatre Bldg., Seattle. Owners, C. D. Stimpson et al. Contractor, Hans Pederson, Madison Bldg., Seattle. Contract price, $150,000.

SAN RAFAEL, MARIN CO., CAL.—Bath house filters, $2,780. Architect's name not given. Owner, Town of San Rafael. Contractors, California Jewell Filter Co., Merchants' Exchange Bldg., S. F. Contract price, $2,780.

BONDS

SANTA CLARA, SANTA CLARA CO., CAL.—The Trustees have accepted the bid of Girirn & Miller for the purchase of the $45,000 bonds voted in Santa Clara recently for street improvements. The Town Engineer is now working on the plans and bids for the work will be called for shortly.

FRESNO, FRESNO CO., CAL.—The newly elected officers of the Mountain View Cemetery Association have been authorized to sell bonds of $10,000 for improvements. A pumping plant for the irrigation system is among the improvements planned.

BAKERSFIELD, KERN CO., CAL.—Bids for the purchase of $75,000 bonds of the Bakersfield School District are now being received by the County Supervisors. The bonds were voted for school improvements.

LONG BEACH, LOS ANGELES CO., CAL.—The National Kelp Potash Company has secured the lase of property, 100 by 600 feet in size, and will start the erection of a large potash factory in the near future. The superintendent of the proposed factory is Dr. S. R. Oppenheim.

OAKLAND, CAL.—J. D. Barnes & Co., which proposes to construct a shipbuilding plant on the Oakland estuary at a cost of approximately $300,000, has been permitted by State Commissioner of Corporations Carnahan to sell shares of its capital stock for that purpose. The company proposes to purchase a site of 18 acres for $57,000 and to build ways capable of handling 4,000-ton vessels. The permit provides that all money paid in shall be placed in escrow until $40,000, the amount required for the first payment on the land, shall have been raised.

HOLLYWOOD, LOS ANGELES CO., CAL.—The Hollywood water bonds, at an election held last week, carried by an overwhelming majority. The issue provides for the sale of $1,020,000 to cover the purchase price and make extensions to the Union Hollywood Water Company's system.

FRESNO, FRESNO CO., CAL.—Owing to the crowded conditions in the Fresno High School building, another building must be erected to accommodate the pupils, according to Frederick Liddeke, principal of the high school. This matter was taken up some time ago but no action was taken. It is probable that the City Council will consider a bond issue at their next meeting.

OROVILLE, BUTTE CO., CAL.—Assemblyman B. B. Meek, Carlton Gray and O. C. Perry have purchased a site in the Gray's addition tract and announce that they will start the erection of an olive pickling and oil plant this summer. The site covers two and one-half acres.

WOODLAND, YOLO CO., CAL.—The City Trustees will shortly call an election to vote bonds for the extension of the city water supply, sewage system and the establishment of a municipal ice plant. It is thought that the bonds to be voted will amount to $50,000.

SACRAMENTO, CAL.—The Capitol Extension bonds have been declared legal, according to information received from Dillon, Thompson & Clay, bond experts of New York.

SELBY, CONTRA COSTA CO., CAL.—The bid of Torrence-Marshall Company was accepted by County Treasurer J. R. Baker for the purchase of the bond issue of $11,000 of the Selby School District. A new school building will be erected from the proceeds of the sale.

FERNDALE, HUMBOLDT CO., CAL.—The Ferndale Congregational Church directors have considered the matter of erecting a new church building here and will shortly select an architect to prepare plans for the building.

OAKDALE, STANISLAUS CO., CAL.—According to advices received from Oakdale, Stanislaus County will vote on the question of issuing and selling bonds for the construction of a highway system to embrace the entire county. Chairman John Clark of the Stanislaus County Board is responsible for the statement. It is probable that bonds to be voted will amount to about $2,000,000 to build the roads needed.

LOS ANGELES, CAL.—An election will be called here in the near future to vote bonds of $3,600,000 for the control of the flood waters which did such a large amount of damage last week. A resolution providing for the issue has been passed and is awaiting the decision of the Los Angeles Flood Control Association.

VISALIA, TULARE CO., CAL.—The question of submitting a bond issue to the people of Tulare County for a system of permanent highway construction is now being considered by the Tulare County officials.

RIVERSIDE, RIVERSIDE CO., CAL.—Property owners in the West Riverside district have on foot a plan for the organization of a big drainage district, and the petition for such will be presented to their Supervisors at their next meeting. It is proposed to make a large district, including all the land from the North Riverside canal over to the tunnel, and from the L. S. Wilson ranch on the river edge to the Salt Lake bridge.

LOVELOCK, NEV. — The Lovelock $90,000 bond issue to bring water to this place from springs in the Humboldt range of the mountains, carried at an election recently held. The Humboldt County Board of Commissioners will appoint a special commission to locate sources of supply and to install a complete water system.

CASA GRANDE, ARIZ. The Town Council has called an election for February 15 for the purpose of voting on a $35,000 bond issue, to be used as follows: $21,000 for light, $8,000 for water, $6,000 for refrigerating.

OCEANSIDE, SAN DIEGO CO., CAL.—The City Trustees have adopted a resolution calling for bids on the sale of $12,000 in municipal improvement water bonds. The issue is dated January 1, 1916, 5½ per cent, semi-annually, to run twenty-four years.

FRESNO, FRESNO CO., CAL.—The State Commissioner of Corporations has granted the J. H. Burnett Iron Works permission to issue $25,000 of bonds, the proceeds from which are to be used in enlarging the plant.

LOS ANGELES, CAL.—The Pacific Light & Power Corporation is planning extensive additions and betterments to their existing system. To cover the cost of the proposed improvements the company will issue $1,000,000 general mortgage bonds and $4,120,000 preferred stock, for which permission to issue same has already been granted by the Railroad Commission.

PHOENIX, ARIZ.—A resolution calling for bids on the $300,000 of road bonds is being considered by the Board of Supervisors.

POMONA, LOS ANGELES CO., CAL.—The $50,000 bond election for municipal improvements, including nine miles of street paving and storm drains and culverts, failed to carry at the election January 12th.

SAN DIEGO, CAN DIEGO CO., CAL.—Ocean Beach residents plan to complete the sewer system started two years ago under the municipal improvement act. A petition is being circulated to ask the Council to include in the call for an election to vote the ocean front improvements the proposition of also bonding the district for sewer purposes. Several attempts to have the sewers completed under the Vrooman act failed, as the contractors refused to sign the contract on account of alleged irregularities.

YREKA, SISKIYOU CO., CAL.—A resolution of intention will be passed at the next meeting of the City Trustees calling an election to vote bonds for the construction of a city hall and for the widening of Fourth street at the corner of Miner.

MANHATTAN BEACH, LOS ANGELES CO., CAL.—The election held to vote on the question of issuing and selling bonds of $90,000 for erecting a municipal pleasure pier at the foot of Central street, also to construct a $70,000 pavilion on Marina avenue, carried last week.

BRIDGES, DAMS AND HARBOR WORK

SEATTLE, WASH.—Bridge, steel and concrete, $500,000. Engineer, City Engineer, Seattle. Owners, City of Seattle. The City Engineer's office has set March 3rd at 10 a. m. as the time for opening bids for the construction of the proposed concrete and steel bridge across the Lake Washington Canal at 10th avenue N. E. The structure will

be of the double leaf bascule type with a clear span of 175 feet. It will be 44 feet wide, providing for two roadways and two 6-foot sidewalks. There will be 1,200 feet of temporary wooden approach, which will be constructed by Day Labor. Substructure is estimated to cost $100,000 and superstructure, $200,000. Further information may be had from the City Engineer's office at Seattle.

SACRAMENTO, CAL.—Weir construction. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The plans for the Sacramento weir have received the approval of the Chief of the Army Engineers at Washington. The weir, which is to offer an easement for the flood waters into the Sacramento by-pass, is a concrete structure with its sill at elevation 25, U. S. E. D., which corresponds to about 22 feet of the Sacramento City river gauge. Upon this concrete structure is a superstructure which is to carry the Yolo County public road and also the tracks of the Sacramento and Woodland Railroad. There will also be located on this foundation gates in 40-foot sections, which will work automatically on rise of the flood plane, one 40-foot section being lowered for each three inches of rise above the danger plane. None of these gates will open, however, until the river has reached elevation 31, U. S. E. D., corresponding to about 28 feet at the Sacramento City gauge. Further mention will be made of this work.

VENTURA, VENTURA CO., CAL.—Bridge work. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on February 3rd at 2 p. m. for supplying structural steel and cast iron for four bridges, as follows: (1) Saticoy bridge, consisting of six steel spans, each 129 feet 6 inches long. (2) Sespe bridge, consisting of one steel span 240 feet long. (3) Casitas bridge, consisting of one combination steel and timber span 200 feet long. (4) La Crosse bridge, consisting of one combination steel andtimber span 150 feet long. Approximate estimate of quanment garage. Interior finish pine and elm panels with hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 9, 2 story and base, frame, $5,000 each. Architect, none. Owner, William J. Keenan, Masonic avenue and Fulton street, S. F. Location, west Masonic north of Grove. Each will contain two modern flats of five and six rooms with bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Automatic water heaters. Bath rooms tile. Exteriors covered with rustic, shiplap and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Flats, 2 story and base, frame, $4,000. Architects, Mau & Dingwell, Macdonough Bldg., Oakland. Owner, H. C. Mjelle. Location, 29th and San Pablo avenue. Will contain two modern flats of four rooms and bath. Interior finish pine and hard

tities in the four bridges is as follows: Structural steel, 660,350 pounds; bolts and washers, 3,000 pounds; cast iron, 15,800 pounds.

MARTINEZ, CONTRA COSTA CO., CAL. — Viaduct, reinforced concrete. Cost not stated. Engineer, County Surveyor Arnold, Martinez. Owners, Contra Costa County. The Board of Supervisors has issued a call for bids for constructing the overhead crossing of the Southern Pacific tracks on the line of the Martinez-Bay Point road at Peyton. The bids are to be received on February 21st. The cost of the bridge which is to be sufficiently long to span four tracks is to be borne jointly by the county and the railroad company. Plans may be secured from the County Clerk at Martinez.

MARKHAMS, SONOMA CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma County. Supervisor William King presented plans and specifications at the last meeting of the Supervisors for the proposed new county bridge to be constructed across Russian River at Markhams. Bids for this work will be called for shortly.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, reinforced concrete. Cost as follows. Engineers, McCurdy Bros., Pacific Electric Bldg., L. A. Owners, Santa Barbara County. Sealed bids will be received by the Board of Supervisors of Santa Barbara County until 10 o'clock a. m., February 7th for the construction of four reinforced concrete bridges to span the Nojqui River. Two of the bridges will be of single arches of 50 feet, 21 feet wide, and estimated to cost $6,750 and $8,600, respectively; one of 65-foot arch estimated to cost $9,250 and one girder bridge to consist of two 50-foot spans, estimated to cost $14,800.

CHURCHES

SAN FRANCISCO—Church, 2 story and base, brick and steel, $60,000. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owners, Second Church of Christ, Scientist. Location, southeast Dolores and Cumberland. Will contain main auditorium, Sunday school rooms and reading rooms. Interior finished in pine and hardwood. Central heating system. Exterior faced with stock brick and cement plaster. Plans complete and contracts for steel work and concrete to be awarded at once. Segregated figures to be taken on the balance of the work.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Distributing station, 1 story and base. Class A construction, $100,000. Engineer, Engineering Department Great Western Power Co., 11 Sansome street, S. F. Owners, Great Western Power Co. Location, north Bush west of Grant avenue, covering an area of 68 feet 9 inches by 137½ feet. Complete steel frame, exterior walls and roof slabs reinforced concrete. Special machinery. Concrete floor. Exterior faced with pressed brick. Plans being prepared.

LOS ANGELES, CAL. Factory, 1, 2 and 3 story and base, reinforced concrete. Cost not stated. Engineer, Engineering Department American Can Co., Mills Bldg., S. F. Owners, American Can Co. Plans are now out for figures for a large factory building in Los Angeles. Construction will be fire proof. Exterior faced with cement plaster. Bids are being taken both in San Francisco and in Los Angeles.

SEATTLE WASH—Compressor plant, 1 story and base, reinforced concrete, $30,000. Engineer, J. R. West, Port of Seattle Commission, Seattle. Owners, City of Seattle. Location, East Waterway, covering an area of 110 by 110 feet. Complete steel frame and reinforced concrete floor and walls. Exterior faced with cement plaster. Special machinery. Plans complete and figures being taken.

SACRAMENTO, CAL.—Wagon shed and storage building, 1 story, frame, $3,000. Architect, none. Owners, McIlfray Construction Co., Nicholaus Bldg., Sacramento. Location, Upper Sacramento Road. Designed for wagon storage and storage space. No interior finish. Exterior rustic and galvanized iron. Plans complete and work to be done by Day Labor.

Contracts Awarded.

LOS ANGELES, CAL.—Warehouse, 4 story and base, brick and steel, $23,000. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Los Angeles Soap Company. Contractors, Alpeter, Hall & Alpeter, Ferguson Bldg., L. A. Contract price, $30,000.

FIRE REPORT

VISALIA, TULARE CO., CAL.—Store and warehouse; damage $50,000. Owners, Auto Hardware Company.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, John Christiansen. Location, west 10th avenue south of Judah. Will contain two flats of five and six rooms with basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, H. C. Christiansen. Location, north California street east of 25th avenue. Will contain two modern flats of six rooms and bath with base-

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wood veneer. Hardwood floors. Open fire places and tile or brick mantels. Tile bath rooms. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flat alteration, 2 story, frame, $7,500. Architects, Falch & Knoll, Hearst Bldg., S. F. Owners, Eisenbach Co. Location, southwest McAllister and Divisadero. Work will consist of raising the present building and constructing five stores on the first floor. Upper floor will be rearranged for doctor's office and flat. Interior finish pine and white enamel. Hardwood floors. Patent store fronts and marble bases. Exterior cement plaster. Plans complete and figures being taken.

GARAGES.

SAN FRANCISCO—Garage, 2 story and base, reinforced concrete, $27,500. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, John Lee, Jr. Location, Sutter, east of Taylor. Will contain accommodations for about 200 machines. Concrete walls and floors. Inclines from basement to first floor and from first floor to second. Interior finish pine. Special gasoline storage tanks. Exterior faced with pressed brick. Plans complete and contract to be let at once.

SAN FRANCISCO—Garage, 2 story and base. Class C construction. Cost not stated. Architect's name not given. Owner, M. A. Frank, 590 10th avenue, S. F. Mr. Frank has made application to the Board of Supervisors to construct and maintain a commercial garage on the north side of Bush street, 89½ feet west of Mason. Further details will be given of the work.

SAN FRANCISCO—Garage, 2 story and base, reinforced concrete. Cost not stated. Architects, Smith & Stewart, 244 Kearny street, S. F. Owner, Albert Kern. Location, south California east of Leavenworth, covering an area of 68 feet 9 inches by 137½ feet. Will contain storage space for 200 machines, office, reception room and accessory room. Concrete floor and incline. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with cement plaster. Plans being prepared.

SAN FRANCISCO—Garage, 1 story reinforced concrete. Cost not stated. Architect, none. Owners, Sperry Flour Co., 332 Sansome street, S. F. Location, northeast corner of Green and Sansome streets, covering an area of 97½ by 120 feet. Fireproof construction with reinforced concrete walls and floors. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared and work to be done by Day Labor.

HOSPITALS

LOS ANGELES, CAL.—Hospital, 1 and 2 story and base, reinforced concrete, $460,600. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. Plans are being completed for the following additional buildings at the County Hospital site: Tuberculosis ward building to cost $250,000, service building to cost $100,000, and a new power building and stack to cost $26,000. The equipment for the above buildings is estimated at $69,150. Also plans for grading grounds, this latter work to be carried on under the supervision of the County Road Department and estimated to cost $15,550. Bids will probably be advertised for the latter part of this month.

NAPA, NAPA CO., CAL.—Hospital cottage, 1 story and base, reinforced concrete. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids are now being taken and will be opened on February 17th for alterations and additions to the South Pay Cottage at the Napa State Hospital. An official proposal appears in another column of this issue. Plans can be secured from the office of the State Engineer at Sacramento.

Contracts Awarded.

WOODSIDE, SAN MATEO CO., CAL.—Hospital cottages, 2, 1 story and base, frame, $17,000. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owners, Drexler Home for Girls. Contractors, Stockholm & Allyn, Monadnock Bldg., S. F. Contract price, $17,000.

HOTELS

SAN FRANCISCO—Hotel and store, 3 story and base. Class C construction, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northeast corner of Howard and Seventh streets. Will contain two stores and a number of single rooms and baths. Interior finish pine. Steam heat, hot water system and oil burning plant. Bath rooms will have composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

ICE RINK.

SAN FRANCISCO—Ice rink. Class A construction, $200,000. Architects, Smith & Stewart, 244 Kearny street, S. F. Owners, St. Francis Ice Rink Co. Plans are being prepared for the largest and most modern ice skating rink in the West, which will be erected near lower Market street. The rink will be of Class A construction with a complete steel frame and reinforced concrete walls. The special equipment to be installed will cost in the neighborhood of $70,000. The company is incorporated for $200,000, divided into 2,000 shares with a par value of $100. Each of the seven directors of the new company have subscribed for one share of stock. They are C. O. Swanberg, F. A. Swanberg, W. A. Sherman, Henry W. Westphal, Adolph R. Westphal, Charles P. Elwert and Hugo K. Asher.

IRRIGATION PROJECTS

TERRA BELLA, TULARE CO., CAL.—Irrigation project. Cost not stated. Engineer, Kieffer, Tulare. Owners, Terra Bella Irrigation District. Consulting Engineer Kieffer reports the irrigation project has been adopted by directors of the Terra Bella Irrigation District. Walter McClenahan and W. A. Kraner, of the contracting firm of McClenahan-Kraner-Carter Co. of San Francisco, have appeared before the board stating they could handle the district bonds if the contract for the improvements to be made was awarded to them. No action was taken.

MODESTO, STANISLAUS CO., CAL.—Laying concrete drain. Cost not stated. Engineer, Herrmann, Modesto. Owners, Modesto Irrigation District. Bids will be received until February 8th at 10 a. m. for the construction of a 24-inch concrete pipe drain in the bottom of the main drainage canal of the Modesto Irrigation District, between Engineer's Station 178 plus 35 and Engineer's Station 228 plus 35.

Contracts Awarded.

MODESTO, STANISLAUS CO., CAL.—Reinforced concrete pipe. Cost as follows. Engineer, Herrmann, Modesto. Owners, Modesto Irrigation District. Contractor, F. R. Way, Modesto. Contract price, 72½c per foot for 5,000 feet of 24-inch reinforced concrete pipe. Separate bids will be called for at once for laying the pipe.

OAKDALE, STANISLAUS CO., CAL.—Irrigation reservoir, reinforced concrete, $165,419. Engineer, Chief Engineer, Oakdale. Owners, South San Joaquin Irrigation District. Contractors, Keystone Construction Co., Portland. Contract price, $165,419.

OAKDALE, STANISLAUS CO., CAL.—Irrigation tunnel, $56,787. Engineer, Chief Engineer, Oakdale. Owners, Oakdale Irrigation District. Contractor, James Willison, Modesto. Contract price, $56,787. Bids of the Pacific Construction Co. and Twohy Bros. were also retained in case that Willison does not sign up. Bids for the work ran as high as $110,000.

GOVERNMENT WORK & SUPPLIES

Approaches to Navy Yards.

Considerable interest is manifested by members of the House naval committee in the conditions attending the approach to the navy yards by the largest battleships. In the hearings on Wednesday before the House committee of the chief of the bureau of yards and docks, Civil Engineer Stanford reported that at New York the situation was most serious, more so, indeed, than the long-prevailing one at Mare Island. The depth of 30 feet must be maintained at an annual expenditure of $45,000 by constant dredging. With a depth of only 30 feet at mean low tide, there is a depth of only 26 feet at extreme low tide, which is insufficient for the passage of the deepest-draft vessels. It was stated that there should be a minimum depth of 35 feet, which would give 31 feet at extreme low tide. A recent report from the Mare Island navy yard shows that there will have to be dredging operations to the extent of $65,000 a year, to which must be added $10,000 a year for the maintenance of dykes. If the dredging is conducted every two years, as is contemplated, there will be a varying depth of 30 feet after the dredging to about 24 feet just before the dredging, with an average yearly depth of about 26 feet at low tide. This will afford approach to the Mare Island yard by the largest battleships only under favorable conditions of the tide. It was developed in connection with this question that at only one navy yard was there a thoroughly reliable deep-water situa-

tion, that at Puget Sound. At all other navy yards there was more or less constant dredging necessary, and at every place there must be more or less consideration given to the state of the tide before the vessels can be moved in and out of the yards.

Levee Sixteen Feet High.

Construction of a levee 16 feet high and nine miles long on the present site of the Volcano Lake levee, for the protection of the Imperial Valley of California against Colorado River floods, is recommended in a report sent by the War Department to Congress. An extension six feet in height, which would suffice for many years, also is recommended, the total cost not to exceed $1,250,000.

Guam, Steel Towers.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing two 400-foot steel towers at the naval radio station, Guam:

Item 1, net price for two 400-foot steel radio towers erected complete in accordance with plans and specifications; 2, net price for two 400-foot steel radio towers erected complete in accordance with plans and specifications, transportation from navy yard, Norfolk, Va., (being furnished by the Government), as specified in paragraph 59; 3, net price for two 400-foot steel radio towers complete in accordance with plans and specifications, transportation from San Francisco, Cal. (being furnished by the Government), as specified in paragraph 59; 4, net price for two 400-foot steel radio towers erected complete in accordance with plans and specifications, transportation from contractor's and manufacturer's works (being furnished by the Government), as specified in paragraph 59.

Dyer Bros., Golden West Iron Works, 17th and Kansas streets, San Francisco, Cal., item 3, $50,000.

The Midland Bridge Co., 700 Grand avenue, Kansas City Mo., item 2, $44,-247; 3, $47,378; 4, $41,865.

Chicago Bridge and Iron Co., 105th and Throop streets, Chicago, Ill., item 4, $47,960.

The Construction and Engineering Co., 1047 Folsom street, San Francisco, Cal., item 2, $37,200; 3, $38,614; 4, $36,-124.

The Pittsburgh-Des Moines Steel Co., Curry Building, Pittsburgh, Pa., item 2, $45,620; 3, $48,880; 4, $43,795.

The Penn Bridge Co., Bond Building, Washington, D. C., item 2, $43,235; 3, $46,900; 4, $41,435.

The California Construction Co., 644 Call Building, San Francisco, Cal., item 2, $38,000; 3, $40,600; 4, $37,000.

Battleship Construction at Navy Yards.

The unwisdom of awarding contracts for the construction of battleships Nos. 43 and 44 to the navy yards has been forcibly brought out at the hearings before the House naval committee this week. It was shown that it will be at least another year before the keel of either vessel can be laid. The Brooklyn navy yard is the only one equipped to build a battleship, and it is estimated it will be about one year before the California, which was laid down about four months ago, will be off the ways and room made for battleship No. 43. At the Mare Island navy yard it will be necessary to build new ways, construct a traveling crane, and provide additional railway facilities, as well as providing considerable new machinery. It is estimated this work will take from six to nine months after Congress appropriates money for such purpose. It is also shown that the fuel ships Maumee and Cuyama are now under construction at Mare Island, and, although the former is practically completed, it will be several months before the latter will leave the ways. It was shown that, under the most favorable conditions, the keels of the new ships will not be laid before March, 1917, or two years after their construction was authorized. In the meantime, private yards have succeeded in obtaining a large amount of business and will not be very eager to bid for Government work under the severe conditions imposed and the unfair competition of navy yards. It is hard to see just how the elaborate building program for the Navy is to be carried out in view of the present and prospective progress in constructing the battleships authorized in the naval appropriation act of March 3, 1915.

New Navy Yard at San Francisco.

The questionable value of the Mare Island navy yard has frequently lead to the suggestion that some other site be obtained by the Government on San Francisco Bay for the establishment of a new yard where there would be no question as to the approaches and where the depth of water would be ample to float any battleship at low tide. It has now been suggested that a favorable location for a new yard would be on Yerba Buena Island, familiarly known as Goat Island, where the Navy Department now maintains a training station. Recommendations looking to the abandonment of the station as a training school have been made, owing to unfavorable climatic conditions, the cold ocean winds sweeping over the island and making it particularly hard on young apprentices, especially those from the interior of the country. The buildings at the station are mere shells and are costly to maintain, while the parade ground is entirely too small for training-school purposes. As the Government owns the island, it could be used for a naval station at a minimum cost. It has been suggested to the House naval committee that the Mare Island establishment could be used as a station for light-draft vessels, and it would be an excellent location for the training school. The proposed station on Yerba Buena Island would provide accommodations for the vessels of maximum draft.

Pendleton, Ore., Elevator.

The contract for the installation of an electric passenger elevator in the U. S. post office at Pendleton, Ore., has been awarded to the Otis Elevator Co., Washington, D. C., at $3,663; plus $94 for safety interlocks; total $3,757; time October 30.

Medford, Ore., Railing.

The contract for furnishing courtroom railing for the federal building at Medford, Ore., has been awarded to John C. Sjostrom Co., Philadelphia, Pa., at $260.

Machinery for New Battleships.

The Navy Department has had under consideration the views of the engineer in chief of the Navy regarding the type of machinery to be adopted for battleships Nos. 43 and 44, authorized at the last session of Congress and ordered to be built at the New York and Mare Island navy yards. It has been decided that both of these vessels shall be equipped with the electric reduction gear, which is the type of motive power adopted for the battleship California. It is out of the question for the Navy Department to build this machinery at a Government plant, although this might be done by the purchase of the plans from the two firms which have designs for such machinery; but great difficulty would be encountered and considerable delay ensue, undoubtedly, in the acquisition of the skilled labor which is necessary in this connection. The Navy Department will, under such circumstances, invite bids for the construction and installation of this equipment. The two firms —the Westinghouse Company and the General Electric Company—are expected to be in the competition, and it is hoped that it will be possible to divide the work so that each concern will obtain a departmental order for the installation of one ship. This will afford an opportunity to encourage the two plants where this type of machinery is manufactured.

Olympia, Wash., Skylight, Etc.

The contract for enlarging the drafting room and placing new skylight in the U. S. post office building at Olympia, Wash., has been awarded to T. F. Casey & Co., Tacoma, Wash., at $1,388; time 60 days.

Medford, Ore., Furniture.

The contract for installing furniture in the U. S. post office at Medford, Ore., has been awarded to McGuire Cabinet Co., Los Angeles Cal., at $1,494.53.

POWER PLANTS & WATER SYSTEMS

FRESNO, FRESNO CO., CAL—Pumping plant. Cost not stated. Engineer's name not given. Owners, Mountain View Cemetery Association, Fresno. The proposition of constructing a pumping plant in the Mountain View Cemetery is being considered by the newly elected officers of the Mountain View Cemetery Improvement Association. Further mention will be made of this work.

SUNNYVALE, SANTA CLARA CO., CAL.—Water system extension. Cost not stated. Engineer, Town Engineer, Sunnyvale. Owners, Town of Sunnyvale. The Board of Trustees of the town of Sunnyvale at their regular meeting instructed the water superintendent to make the necessary extensions of the water system on Mathilda, Washington and McKinley avenues.

The effect of this extended use of cement on the industries of the coun-

try has been, to say the least, phenomenal.

It has given rise to several independent lines of manufacture, such as the building of concrete mixers and moulding and block machines, which has assumed large proportions lately.

The manufacture of steel bars, plain and deformed, of wire mesh, both welded and otherwise, and spiral reinforcement for columns and pipe is also sprung from the increased use of concrete.

Waterproofing and damp-proofing compounds are also being put on the market in numerous brands and qualities.

The science of reinforced concrete design has itself developed wonderfully under the impetus of the increasing popularity of concrete as an engineering material.

LOS ANGELES, CAL.—Water system extension, $25,731. Engineer, City Engineer, L. A. Owners, City of Los Angeles. The Municipal and Industrial Equipment Co., Story Bldg., L. A., was the lowest bidder at $25,731 for furnishing all labor and material for installing a water system in Los Angeles County Water Works District No. 1. The work will include furnishing and installing 4-inch and 6-inch pipe lines, raising tank and installing derrick and winding gear. Bids taken under advisement.

MARSHFIELD, ORE. — Water tank, redwood. Cost not stated. Engineer, R. H. Corey, Marshfield. Owners, North Bend Water Works Co. R. H. Corey, of the North Bend Water Works Co., states that he is now taking figures from both Portland and San Francisco manufacturers of wood tanks for furnishing and erection, complete, of a water tank to hold 250,000 gallons, which has been ordered installed there by the Public Service Commission.

SEATTLE, WASH.—Pipe line and reservoir, reinforced concrete, $3,000,000. Engineer, City Engineer Dimock, Seattle. Owners, City of Seattle. At a recent meeting of the City Council the bill of R. B. Hesketh for a new concrete pipe line from Landsburg to the city reservoirs was adopted, and referred to City Engineer Dimock for a report and estimate of cost. Figures for the work have already been compiled and will be submitted to the Council shortly.

RAILROAD CONSTRUCTION AND EQUIPMENT.

Contracts Awarded.

SAN FRANCISCO — Railroad construction, $57,421. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. Contractors, Western Motor Drayage Co., S. F. Contract price, $57,421. Contract covers the construction of that portion of the Church Street Municipal Road between 16th and 18th streets.

RESIDENCES.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,600. Architect, none. Owner, Ralph J. Button, 1290 26th avenue, S. F. Location, east 26th avenue north of Irving. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $15,000. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, G. A. Applegarth. Location, Vallejo near Broderick. Will contain ten rooms, several baths, sleeping porch and conservatory. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and steam heat. Hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $4,000. Architect, S. A. Bryant, 409 Steiner street, S. F. Owners, A. W. Bryant Building Co., 1372 9th avenue, S. F. Location, north Santa Barbara avenue east of Portola Drive. Will contain seven rooms, bath and sleeping porch. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owners, James Arnott & Son, 1322 3rd avenue, S. F. Location, north Meda west of Otsego. Each will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, C. Maasberg, 3915 Greenwood avenue, Oakland. Location, west Park Boulevard north of Hampel. Will contain seven rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,200. Architect, none. Owner, Edward Grabdin, 1533 Prince street, Berkeley. Location, west Adeline north of 56th. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,400. Architect, none. Owner, Herbert F. Kern, 1326 Arch street, Berkeley. Location, north Marin west of The Circle. Will contain eight rooms, baths and sleeping porch. Interior finish pine, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

KINGSBURG, FRESNO CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, John J. Foley, 46 Kearny street, S. F. Owner, Claude Roche. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with resawed rustic. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, J. S. Purcell, 856 Presidio avenue, S. F. Location, west 16th avenue south of Balboa. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, southwest corner Willow street and Clement. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location, east Thomas north of Napa. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, none. Owners, Banning & Stewart, 5215 Broadway, Oakland. Location, south Rock Ridge Boulevard east of Broadway. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 1½ story and base, frame, $2,000 each. Architect, none. Owner, N. J. Nelson, 547 Elizabeth street, S. F. Location, west 17th avenue north of Cabrillo. Each will contain five rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 4, 1½ story and base, frame, $2,000 each. Architect, none. Owner, Louis Johnson, 188 Bertita street, S. F. Location, south Moraga west of 18th avenue. Each will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Bath rooms composition. Automatic water heater. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, W. H. Little, 4070 Agua Vista, Oakland. Location, north Walnut west of Montecello. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owner's name withheld. Will contain ten rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken for grading and concrete work. Balance of work to be figured later.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $40,000. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Location, Arroyo Seco. Will contain seventeen rooms, several baths, sleeping porches and a separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile. Steam heat and a hot water circulating system. Open fire places and tile mantels. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded.

LOS ANGELES, CAL.—Residence, 1 and 2 story and base, frame, $30,000. Architect, W. J. Dodd, Marsh-Strong Bldg., L. A. Owner, W. J. Dodd. Contractor, C. D. Goldthwaite, Marsh-Strong Bldg., L. A. Contract price, $30,000.

SCHOOLS

FRESNO, FRESNO CO., CAL.—School completion. Class A construction. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Arthur Arlett, 251 Post street, S. F., who is in charge of the completion of the State Normal School at Fresno, states that informal bids are now being taken by the State Architect for the plastering, sheet metal work, painting and ornamental iron work. Plans can be seen at the office of Mr. Arlett. As soon as contracts for these parts of the work have been let bids will be taken for the finish carpentry.

MODESTO, STANISLAUS CO., CAL.—School, 1 story and base, brick, concrete or hollow tile. Cost not stated. Architects, Hewitt & De Remer, Title Insurance Bldg., L. A. Owners, City of Modesto. Location, West Side. Will contain eight class rooms, domestic science and manual training departments. Interior finish pine with maple floors. Steam heat and oil burning system. Reversable windows. Exterior cement plaster or pressed brick. Plans being prepared.

MODESTO, STANISLAUS CO., CAL.—School, 1 and 2 story and base, brick, reinforced concrete or hollow tile. Cost not stated. Architects, Stone & Wright, San Joaquin Velley Bank Bldg., Stockton. Owners, City of Modesto. Will contain accommodations for 600 pupils and an auditorium seating 1,000 people. Interior finish pine with maple floors. Steam heat, oil burning plant, vacuum cleaning and slate blackboards. Reversible windows. Exterior faced with cement plaster or pressed brick. Plans being prepared.

SEATTLE, WASH.—School, 3 story and base, reinforced concrete, $150,000. Architects, Bebb & Gould, Denny Bldg., Seattle. Owners, University of Washington. Building will be known as the Political Science building and will house the science departments as well. Interior finish pine and hardwood with maple floors. Steam heat and vacuum cleaning. Exterior faced with cement plaster. Working drawings will be completed about February 15th when bids will be called.

SEWERS, STREET WORK & WATER SYSTEMS

STOCKTON, SAN JOAQUIN CO., CAL.—Storm water sewers, $4,643.98. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council bids for furnishing labor and materials and constructing storm sewers on East street, from a point 31.8 feet south of the center line of Sonora street to Mormon Channel, were opened. The bids were as follows: W. S. Gause, Piedmont, Oakland, $5,747.82; Marin Rock Co., San Anselmo, $5,494.30; Chambers & Heafey, Bacon Bldg., Oakland, $6,101.85; Fred Meyers, 120 E. 23rd street, Richmond, $6,106.05; D. Bishop, Stockton, $5,397.73; Wm. F. Edwards, 675 31st street, Oakland, $5,887.31. The bids were taken under consideration. The engineer's estimate for the job was $4,643.98.

BAKERSFIELD, KERN CO., CAL.—Caterpillar. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be received until February 10th for the furnishing of one 45 horse power caterpillar for the Fourth Supervisorial District.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Grading, sidewalks, etc. Cost not stated. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. Bids will be received up to February 7th at 8 p. m. for grading to official grade Walnut street, between the north line of Grand avenue and the south line of Miller avenue; the construction of concrete sidewalks therein on both sides thereon having a width of 5 feet, commencing 2 feet from the boundary lines and extending 5 feet towards the curb lines; the construction of combination concrete curbs and gutters therein on both sides thereof.

SAN JOSE, SANTA CLARA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, San Jose. Owners, City of San Jose. Plans prepared by the City Engineer for certain street improvements have been approved by the City Council, and a resolution of intention providing for the work has been passed. That the roadway of San Fernando street, between the east line of 7th street and the west line of 10th street, be graded, paved, construction of curbs, gutters and catchbasins. The same improvement is also planned for San Fernando avenue, from 4th to 7th street. Bids on this work will be called for shortly.

VENTURA, VENTURA CO., CAL.—Road construction, $29,000. Engineer, County Surveyor, Ventura. Owners, Ventura County. Plans and specifications have been approved by the County Supervisors and bids have been ordered received up to February 4th for the construction of the Matilija road. The plans call for a roadway about 6 miles in length, beginning at a point on the Meiners ranch about 3 miles from the town of Nordhoff and where the Foothills road strikes the old road into the Matilija Canyon. The estimated cost of the road, which terminates at the Myers Matilipa Springs, is placed at $29,000, this to include several bridges, one of 70-foot span at the mouth of the North Fork.

VENTURA, VENTURA CO., CAL.—Sand, gravel and cement. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. The specifications submitted by the City Highway Commission to the Supervisors for cement, gravel and sand for county highways were approved and bids are being taken, to close February 7th, 11 a. m. The specifications call for 100,000 tons of gravel, 50,000 tons of sand and 15,000 tons of cement. Further information may be had from the Clerk of the Board of Supervisors at Ventura.

STOCKTON, SAN JOAQUIN CO., CAL.—Levee construction. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the City Council's last meeting plans and specifications for the improvements of Steamboat levee by grading and graveling a strip 16 feet wide and 750 feet long, commencing at the ending of the present pavement near the south line of Fremont street and extending 750 feet.

LODI, SAN JOAQUIN CO., CAL.—Subway, reinforced concrete, $25,000. Engineer, City Engineer, Lodi. Owners, City of Lodi. The City Council is considering the passage of a resolution providing for the construction of a subway under the Southern Pacific tracks on Pine street. The reason for wanting the subway at once is the fact that a new school house is to be built on the east, necessitating the children of three grades crossing the track four times a day during school months.

FRESNO, FRESNO CO., CAL.—Garbage incinerator, reinforced concrete. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Clerk has been authorized to advertise for bids on a contract for the destruction by cremation of city garbage for a period of ten years. It is understood the incinerator must not be in the north end of the city but must be outside of the city limits. Bids

close February 21st. Further information may be had from the City Clerk at Fresno.

OAKLAND, CAL.—Street work. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The Oakland City Council has passed resolutions directing the City Engineer to prepare plans and specifications and resolution of intention for grading, curbing, guttering, paving with oil macadam and otherwise improving 36th avenue between East 14th street and Post street. Directing the City Engineer to prepare proceedings for the improvement of 34th avenue between East 12th street and Lloyd avenue. Directing the City Engineer to prepare proceedings for paving a strip 24 feet wide in Foothill Boulevard from High street to 73rd avenue.

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The City Council at their last meeting granted permission to Hutchinson & Co., 13th and Franklin streets, Oakland, contractors, to macadamize South D street from San Rafael avenue to Antoinette avenue, P street extension, and Center and Pine streets, by private contract.

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council, City Manager Bolani submitted plans and specifications for the improvement of Center, Pine and South D streets and San Rafael avenue, and they were adopted. Bids on this work will probably be called for at the next meeting.

MONTEREY, MONTEREY CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Monterey. Owners, City of Monterey. The City Council has passed new resolutions providing for the following street improvements: That Main street, from the north line of Maddison street to the north line of Jefferson street (produced), be improved to the official grade as follows: The roadway of said Main street to be graded and macadamized from gutter line to gutter line. Macadam to be 6 inches in depth at the crown and 4 inches in depth at the gutter lines, except at street intersections, where the macadam shall be a uniform depth of 6 inches. Macadamized sidewalks and concrete curbs and gutters to be constructed along both sides of said Main street. Concrete curbs to be 6 inches wide at the top, 9 inches wide at the bottom and 16 inches in depth. Concrete gutters to be 2 feet wide and 4 inches in depth. One catch basin with connection to storm sewer manhole to be constructed at the intersection of Main and Jefferson streets, also that Tyler street, from the north line of Pearl street to the south line of Franklin street, be improved to the official grade as follows: The roadway to be graded and macadamized from gutter line to gutter line. Concrete sidewalks and concrete curbs and gutters to be constructed along both sides of said roadway. Bids on this work will be called for shortly.

LONG BEACH, LOS ANGELES CO., CAL.—Paving, $15,900. Engineer, City Engineer, Long Beach. Owners, City of Long Beach. James J. Fraser, Marine Bank Bldg., Long Beach, was the lowest bidder at $15,900 for grading and constructing macadam and concrete paving on 2.6 miles of Anaheim street from Ximeno avenue to the county boundary in Road Improvement District No. 56. The next lowest bidder was J. Hein at $15,949. Estimated cost, $18,326. The bids were taken under advisement.

HOLLYWOOD, LOS ANGELES CO., CAL. — Sewer construction, $100,000. Engineer's name not given. Owners City of Hollywood and Universal Film Co. The Universal Film Co. has been granted permission by the Los Angeles Board of Public Works to connect Universal City with the Hollywood sewer system. Estimated cost of sewer system and connection is $100,000.

LONG BEACH, LOS ANGELES CO., CAL.—Drainage system, $75,000. Engineer, City Engineer Pearsall, Long Beach. Owners, City of Long Beach. The Board of Supervisors has approved the Signal Hill drainage project, and plans and specifications will be completed at once. They will include the drainage of the water into a natural depression, where the silt will settle, and from which the surplus water will be carried off by a pipe line laid via State street to the harbor.

Contracts Awarded.

OAKLAND, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Contractor, Michael Heafey, 2320 McKinley avenue, Berkeley. Contract price not stated. Contract covers improvement of Tompkins and Yale avenues and Solano Way between 16th and 17th avenues.

BAKERSFIELD, KERN CO., CAL.—Sewer construction, $1,384. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, Lloyd S. Stroud, Bakersfield. Contract price, $1,384.

VISALIA, TULARE CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price, $12.83 per square foot for pavement and 33c per lineal foot for curbs.

ONTARIO, SAN BERNARDINO CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer B. B. Mann, Ontario. Owners, City of Ontario. Contractors, Ford & Stout, Bradbury Bldg., L. A. Contract prices, $21,439.44 and $23,791.22.

ANTIOCH, CONTRA COSTA CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. Contractors, Raisch Improvement Co., Chronicle Bldg., S. F. Contract price not stated. The streets to be improved are 1, 2nd, G, 7th, B, C, L, H, etc.

STORES AND OFFICES.

OAKDALE, STANISLAUS CO., CAL.—Office, 1 story and base, reinforced concrete. Cost not stated. Architects Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Oakdale Irrigation District. Revised plans for the general office building to be erected in Oakdale have been completed and are now out for figures. Bids will be opened on February 8th. Interior finish pine and hardwood. Central heating plant. Exterior faced with cement plaster. Plans can be secured from the office of the architects.

DELANO, KERN CO., CAL.—Stores, 2 story and base, brick and concrete. Cost not stated. Architect, J. M. Saffel, Fiske Bldg., Bakersfield. Owner, John J. Schlitz. Location I street, covering an area of 50 by 100 feet. Will contain a large general store. Interior finish pine with some hardwood. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans being prepared.

SAN FRANCISCO—Lofts, 2 story and Architects, O'Brien Bros., 240 Montgomery street S. F. Owner's name withheld. Location, north Sacramento near Davis, covering an area of 34 by 120 feet. Waterproof basement. Entire building leased to a manufacturing firm. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

VALUES IN LONDON.

Not long ago a tiny piece of ground at Charing Cross, adjoining the Mall Archway, and comprising only 641½ square feet, with a frontage of 69 feet, was sold by the London County Council to an insurance company for $545,000 an acre.

It is in the city, the square mile of which is valued at $1,250,000,000, however, where land can easily claim the distinction of being the dearest in the world. For property near the center of the city $16,250,000 an acre is not an unusual price. Portions of Cannon street, Queen Victoria street, Upper Thames street, and St. Mary-at-Hill, are said to be worth $1.25 a square inch, while in Lombard street and King William street land has been sold for $350 per square foot freehold.

The three acres on which the Bank of England stands would realize at a low estimate $35,000,000, for the land adjoining has sold at $350 and $400 a square foot.

Land in Cornhill was sold at a price which worked out at $12,452,000 an acre, while some time ago $5,000,000 was offered and refused for the site of a church in Austin Friars.—Exchange.

HODCARRIER BREAKS 40 FOOT FALL OF JOINER.

STOCKTON, Cal.—Charles Courtney, a carpenter, fell from the roof of a a three-story building in Stockton. Plunging head formost, a distance of forty feet, he collided with a negro hod-carrier, who was ascending a ladder with a load of mortar, and he turned a neat flip, landing in a sitting posture, sputtering and digging the mortar out of his eyes and ears. Courtney arose and walked five blocks to his home. A physician was summoned and found him suffering from a fractured rib, otherwise he is O. K., the negro still suffering from surprise.

Needles Steam Laundry is permitted to sell 12,000 shares at par, $1 per share, to net the company 100%. The incorporators are taking 9,000 shares and will engage in the laundry business at Needles.

OFFICIAL PROPOSALS.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, St. Ignatius, Mont., until **2 o'clock p. m. February 8, 1916,** for construction of canals and structures on the Flathead project, Montana, involving about 4,000 cubic yards of excavation, 300 cubic yards of reinforced concrete, 900 square yards of paving, laying 1,300 linear feet of vitrified pipe, erecting 16,000 feet, B. M., of lumber, and placing of 35,000 pounds of structural and reinforcing steel. The work is located from two to eight miles southeast of Arlee, Mont., on the Northern Pacific Railway. For particulars address the U. S. Reclamation Service, Washington, D. C., Denver, Colo., or St. Ignatius, Mont. D. C. HENNY, acting chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1005 — Proposals for Bronze Castings, Gray Iron Castings, Malleable Iron Castings, Steel Castings, Steel Forgings, Machinery Steel Bars, Steel Plates and Shapes, Steel Springs, Lock Washers, Electric Cable and Wire.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. February 23, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1005) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1007 — Proposals for Grab Buckets, Drawbar Springs, Boiler Tubes, Drill Chucks, Socket Wrenches, Steam Traps, Rattan Baskets, Window Glass, Mattress Ticking, Leather Mattress Tufts, Mattress Twine, Lye, Venetian Red Paint, Vermillion Paint and Spud Timbers.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. February 4, 1916,** at which time they will be opened in public for purchasing the above mentioned articles. Blanks and general information relating to this circular (No. 1007) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

OFFICE of the Clerk of the Board of Supervisors of the County of Sacramento, State of California.

Pursuant to an order of the Board of Supervisors of the County of Sacramento, State of California, made and entered on record on the 5th day of January, A. D. 1916.

Notice is hereby given that sealed bids will be received by the undersigned up to, and not later than, the hour of **2 p. m., of the 16th day of February, A. D. 1916,** at office of said Board in the Court House Building, Seventh and I streets, Sacramento City, for the furnishing of all labor, materials and mechanical workmanship necessary for the erection and completion of a new Nurses Home building, situate on the present County Hospital Grounds, County of Sacramento, Cal., in accordance with the plans and specifications prepared therefor by R. A. Herold, architect, and adopted by the Board of Supervisors of the County of Sacramento, which plans and specifications may be seen and examined, during office hours, by intending bidders, at the architect's office, Rooms 430-37 Forum Building, Sacramento, California.

All bids must be submitted on blank forms furnished by the Clerk of the Board, and must be accompanied with a certified check on some solvent bank in a sum equal to ten (10) per cent of the amount of each bid, conditioned that if the contract is awarded the party submitting accepted bid will enter into contract and furnish such bond as may be required within ten days after making award, or, failing so to do, the amount of such check to be forfeited as liquidated damages for such failure. All checks to be made payable to the order of the Chairman of the Board of Supervisors of Sacramento County.

The Board reserves the right to reject any or all bids.

By order of the Board of Supervisors of Sacramento County, California.

Attest (Seal) E. F. PFUND,
County Clerk and ex-Officio Clerk of the Board of Supervisors of Sacramento County, California.
By F. Gregory, Deputy Clerk.

PROPOSALS FOR STEEL TOWER.

STEEL TOWER — Sealed proposals will be opened by the light house inspector, Honolulu, T. H., at **2 o'clock p. m., March 1, 1916,** for furnishing one 72-foot galvanized structural steel tower, delivered f. o. b. Honolulu, T. H. Information upon application to above office.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, 220 California Hall, University of California, Berkeley, Cal., **at or before 11:00 A. M., February 7, 1916, for the Heating and Ventilating and Electric Wiring of Benjamin Ide Wheeler Hall and for the Granite Work on the esplanada of the Jane K. Sather Tower,** both on the grounds of the University of California at Berkeley.

Plans and specifications may be obtained at the Cashier's Window in the Comptroller's Office after 9:00 A. M., Tuesday, January 25, 1916, on payment of a deposit of $50.00 for each set taken out, which deposit will be refunded on return of said plans and specifications accompanied by a regular bid for the work. No bids will be received unless accompanied by a certified check or bond in favor of the undersigned equal to 10% of the bid, to secure execution of the contract by the successful bidder, and no deposit will be returned unless a bona fide bid is made.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (*)

PROPOSALS FOR FIRE ESCAPE.

Notice to Contractors.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Thursday, January 27th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials and labor; and doing the work required to complete the New Fire Escape for the Manual Arts Building, California School for Deaf and Blind, Berkeley, California, in accordance with the plans and specifications therefor, copies of which may be obtained

NOTICE TO CONTRACTORS.

PROPOSALS FOR LIGHTERING.

LIGHTERING—Sealed proposals will be opened by the light house inspector, Ketchikan, Alaska, at **2 o'clock p. m. January 31, 1916,** for lightering about 400 tons of miscellaneous freight from Katella anchorage to Cape St. Elias Light Station, Alaska. Specifications and forms for proposal may be secured by applying to above officer or to the postmasters at Katella, Seward or Cordova, Alaska.

A LARGE AND CONSISTENT CEMENT USER.

The United States Reclamation Service is one of the largest and most consistent users of Portland cement in this country. According to a report published in the United States Government Advertiser of Washington, D. C., up to June 30, the end of the last fiscal year, the Reclamation Service has used a total of 2,501,382 barrels of Portland cement in its work This is very substantial evidence of the value of Portland cement in the connection.—Portland Cement Magazine.

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, Theo W. Lenzen, Humboldt Bank Bldg., S. F. Owners, Kierman & O'Brien, 1756 Mission street. Location, northwest Van Ness and Vallejo, covering an area of 30 by 86½ feet. Will contain one store and eight modern apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Central heating system, oil burning plant and hot water supply. Wall beds. Tile and composition in bath rooms. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

APARTMENT HOUSE ALTERATIONS—5 story and base. Class C, $25,000. San Francisco. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, R. D. Frye. Location, Polk and Bush streets. Work will consist of altering first floor office and constructing lobby and lounging rooms. Additional baths will be installed. Work includes plumbing, electric work, painting and interior finish. An ornamental iron marquise will also be constructed. Plans are complete and work will be done by Day Labor.

APARTMENT HOUSE—5 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Lange & Bergstrom, Sharon Bldg., S. F. Location, Post between Jones and Leavenworth. Segregated figures are now being taken by the owners on the following parts of the work: Excavating, rock, sand, gravel, cement, reinforcing steel, structural steel, brick work, face brick, common brick, architectural terra cotta, hardwood flooring, mill work, stairs, finish hardware, ornamental iron, painting, wall paper, metal lathing and furring, plastering, sheet metal, patent flues, composition roofing, glazing, marble, tile, plumbing, incinerator, vacuum cleaner, heating, oil tank, 5,000-gallon water tank, hot water heater, oil burner, electric wiring, electric fixtures, elevator, electric dumb waiter.

APARTMENT HOUSE—3 story and base, frame, $21,000. San Francisco. Architect, J. F. Dunn, Monadnock Bldg., S. F. Owner, W. H. Humphrey, First National Bank Bldg., S. F. Location, north Pine West of Leavenworth. Will contain a number of two and three room apartments with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and a hot water supply. Bath rooms tile. Exterior covered with rustic and cement plaster. Revised plans complete and contract to be let at once.

CHURCH—2 story and base, brick and steel, $60,000. San Francisco. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owners, Second Church of Christ, Scientist. Location, southeast Dolores and Cumberland. Will contain main auditorium, Sunday school rooms and reading rooms. Interior finish pine and hardwood. Central heating system. Exterior faced with stock brick and cement plaster. Plans complete and contracts for steel work and concrete to be awarded at once. Segregated figures to be taken on the balance of the work.

DISTRIBUTING STATION — 1 story and base. Class A construction, $100,000. San Francisco. Engineer, Engineering Department Great Western Power Co., 14 Sansome street, S. F. Owners, Great Western Power Co. Location, north Bush west of Grant avenue, covering an area of 68 feet 9 inches by 137½ feet. Complete steel frame, exterior walls and roof slabs reinforced concrete. Special machinery. Concrete floor. Exterior faced with pressed brick. Plans being prepared.

FLATS—2 story and base, frame, $4,000. San Francisco. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, John Christiansen. Location, west 10th avenue south of Judah. Will contain two flats of five and six rooms with basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, H. C. Christiansen. Location, north California street east of 25th avenue. Will contain two modern flats of six rooms and bath with basement garage. Interior finish pine and elm panels with hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—2 story and base, reinforced concrete, $27,500. San Francisco. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, John Lee, Jr. Location, Sutter east of Taylor. Will contain accommodations for about 200 machines. Concrete walls and floors. Inclines from basement to first floor and from first floor to second. Interior finish pine. Special gasoline storage tanks. Exterior faced with pressed brick. Plans complete and contract to be let at once.

GARAGE—2 story and base. Class C construction. Cost not stated. San Francisco. Architect's name not given. Owner, M. A. Frank, 590 10th avenue, S. F. Mr. Frank has made official application to the Board of Supervisors to construct and maintain a commercial garage on the north side of Bush street, 89½ feet west of Mason. Further details will be given of the work.

HOTEL AND STORE—3 story and base. Class C construction. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northeast corner of Howard and Seventh street. Will contain two stores and a number of single rooms and baths. Interior finish pine. Steam heat, hot water system and oil burning plant. Bath rooms will have composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owner, Chester Woolsey. Location, south McAllister east of Devisadero. Will contain stores on the first floor and three-room apartments on the upper floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and a hot water system. Oil burning plant. Patent store fronts. Exterior covered with cement plaster. Plans complete and figures being taken.

RAILROAD CONSTRUCTION — $57,421. San Francisco. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. Contractors, Western Motor Drayage Co., S. F. Contract price, $57,421. Contract covers that portion of the Church Street Municipal Road between 16th and 18th streets.

RESIDENCE — 2 story and base, frame, $3,600. San Francisco. Architect, none. Owner, Ralph J. Button, 1290 26th avenue, S. F. Location, east 26th avenue north of Irving street. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $15,000. San Francisco. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, G. A. Applegarth. Location, Vallejo near Broderick. Will contain ten rooms, several baths, sleeping porch and conservatory. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and steam heat. Hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, S. A. Bryant, 109 Steiner street, S. F. Owners, A. W. Bryant Building Co., 1372 9th avenue, S. F. Location, north Santa Barbara avenue east of Portola Drive. Will contain seven rooms, bath and sleeping porch. Basement ga-

rage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,000 each. San Francisco. Architect, none. Owners, James Arnott & Son, 1322 3rd avenue, S. F. Location, north Meda west of Otsego. Each will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE AND STORES —6 story and base, reinforced concrete, Cost not stated. San Francisco. Architect, L. M. Garden, Phelan Bldg., S. F. Owners, D. & S. Investment Co. Location, southwest Ellis and Hyde, covering an area of 56½ by 82½ feet. Will contain four stores besides the entrance on the first floor. Upper floors arranged for 42 suites of two and three rooms. Private baths and wall beds. Interior finish pine and hardwood veneer. Hardwood floors. Automatic elevator, steam heat, hot water system and oil burning plant. Bath rooms tile. Patent store fronts. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, J. S. Purcell, 856 Presidio avenue, S. F. Location, west 16th avenue south of Balboa. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—9, 2 story and base, frame, $5,000 each. San Francisco. Owner, William J. Keenan, Masonic avenue and Fulton street, S. F. Location, west Masonic north of Grove. Each will contain two modern flats of five and six rooms with bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors and open fire places. Mantels tile or brick. Automatic water heaters. Bath rooms tile. Exteriors covered with rustic, shiplap and cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—2 story and base, reinforced concrete. Cost not stated. San Francisco. Architects, Smith & Stewart, 244 Kearny street, S. F. Owner, Albert Kern. Location, south California east of Leavenworth, covering an area of 68 feet 9 inches by 137½ feet. Will contain storage space for 200 machines, office, reception room and accessory room. Concrete floor and incline. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with cement plaster. Plans being prepared.

ICE RINK Class A construction, $200,000. San Francisco. Architects, Smith & Stewart, 244 Kearny street, S. F. Owners, St. Francis Ice Rink Co. Plans are being prepared for the largest and most modern ice skating rink in the West, which will be erected near lower Market street. The rink will be of Class A construction with a complete steel frame, reinforced concrete walls. The special equipment to be installed will cost in the neighborhood of $70,000. The company is incorporated for $200,000, divided into 2,000 shares with a par value of $100. Each of the seven directors of the new company have subscribed for one share of stock. They are C. O. Swanberg, F. A. Swanberg, W. A. Sherman, Henry W. Westphal, Adolph R. Westphal, Charles P. Elwart and Hugo K. Asher.

FLAT ALTERATION—2 story, frame, $7,500. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owners, Eisenbach Co. Location, southwest McAllister and Divisadero. Work will consist of raising the present building and constructing five stores on the first floor. Upper floor will be rearranged for doctor's office and flat. Interior finish pine and white enamel. Hardwood floors. Patent store fronts and marble bases. Exterior cement plaster. Plans complete and figures being taken.

GARAGE—1 story, reinforced concrete. Cost not stated. San Francisco. Architect, none. Owners, Sperry Flour Co., 332 Sansome street, S. F. Location, northeast corner of Green and Sansome streets, covering an area of 97½ by 120 feet. Fireproof construction with reinforced concrete walls and floors. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES—2, 1½ story and base, frame, $2,000 each. San Francisco. Architect, none. Owner, N. J. Nelson, 547 Elizabeth street, S. F. Location, west 17th avenue north of Cabrillo. Each will contain five rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors, open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 1½ story and base, frame, $2,000 each. San Francisco. Architect, none. Owner, Louis Johnson, 188 Bertita street, S. F. Location, south Moraga west of 18th avenue. Each will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Bath rooms composition. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

LOFTS—2 story and base. Class C construction, $15,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, north Sacramento near Davis, covering an area of 34 by 120 feet. Waterproof basement. Entire building leased to manufacturing firm. Interior finish pine. Patent store fronts and marble bases. Exterior face with pressed brick. Plans complete and figures being taken.

OAKLAND AND ALAMEDA COUNTY.

APARTMENT HOUSE—4 story and base, brick and steel, $70,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, 24th and Telegraph. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior finish pine and hardwood veneer and hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Bath rooms tile. Exterior faced with pressed brick. Plans complete and owners taking subfigures.

APARTMENT HOUSE—4 story and base, brick and steel, $75,000. Oakland, Cal. Architects, Hutchinson & McLean, 470 13th street, Oakland. Owner's name withheld. Location, 13th and Brush streets. Will contain a number of two, three and four room apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, automatic elevator, hot water supply, vacuum cleaning and oil burning system. Wall beds. Bath rooms finished in tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, C. Maasberg, 3915 Greenwood avenue, Oakland. Location, west Park Boulevard north of Hampel. Will contain seven rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,200. Oakland, Cal. Architect, none. Owner, Edward Grabdin, 1533 Prince street, Berkeley. Location, west Adeline north of 56th. Will contain five rooms and bath. Interior finish pine, white enamel and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $2,400. Berkeley, Alameda Co., Cal. Architect, none. Owner, Herbert F. Kern, 1326 Arch street, Berkeley. Location, north Marin west of The Circle. Will contain eight rooms, baths and sleeping porch. Interior finish pine, southern gum and white neamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, southwest corner Willow and Clement streets. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster.

Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location, east Thomas north of Napa. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000 Oakland, Cal. Architect, none. Owners, Banning & Stewart, 5215 Broadway, Oakland. Location, south Rock Ridge Boulevard east of Broadway. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. Oakland, Cal. Architects, Mau & Dingwell, Macdonough Bldg., Oakland. Owner, H. C. Mjelle. Location, 29th and San Pablo avenue. Will contain two modern flats of four rooms and bath. Interior finish pine and hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Tile bath rooms. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

STREET WORK—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The Oakland City Council has passed resolutions directing the City Engineer to prepare plans and specifications and resolution of intention for grading, curbing, guttering, paving with oil-macadam and otherwise improving 36th avenue and East Fourteenth street and Post street. Directing the City Engineer to prepare proceedings for the improvement of 34th avenue, between East Twelfth street and Lloyd avenue. Directing the City Engineer to prepare proceedings for paving a strip 24 feet wide in Foothill Boulevard from High street to 73rd avenue.

APARTMENT HOUSE—2 story and base, frame, $8,000. Oakland, Cal. Architect, M. L. Newsom, 1748 Broadway, Oakland Owner, John F. Whalen. Location, southeast corner 41st and Manila streets. Will contain sixteen rooms arranged in suites of two and three rooms with private baths and wall beds. Interior finish pine. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, W. H. Little, 4070 Agua Vista, Oakland. Location, north Walnut west of Montecello. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath roo tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. Piedmont, Alameda Co., Cal. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owner's name withheld. Will contain ten rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken for grading and concrete work. Balance of work to be figured later.

Contracts Awarded.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Contractor, Michael Heafey, 2320 McKinley avenue, Berkeley. Contract price not stated. Contract covers improvement of Tompkins and Vale avenues and Solano Way between 16th and 17 avenues.

SAN JOSE AND THE SANTA CLARA VALLEY

GRADING, SIDEWALKS, ETC.—Cost not stated. South San Francisco, San Mateo Co., Cal. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. Bids will be received up to February 7th at 8 p. m. for grading to official grade Walnut avenue between the north line of Grand avenue and the south line of Miller avenue; the construction of concrete sidewalks therein on both sides thereof, having a width of 5 feet, commencing 2 feet from the boundary lines and extending 5 feet towards the curb lines; the construction of combination concrete curbs and gutters therein on both sides thereof.

STREET IMPROVEMENT — Cost not stated. San Jose Santa Clara Co., Cal. Engineer, City Engineer, San Jose. Owners, City of San Jose. Plans prepared by the City Engineer for certain street improvements have been approved by the City Council and a resolution of intention providing for the work has been passed. That the roadway of San Fernando street between the east line of 7th street and the west line of 10th street be graded, paved, construction of curbs and gutters and catchbasins. The same improvement is also planned for San Fernando avenue from 4th to 7th streets. Bids on this work will be called for shortly.

WATER SYSTEM EXTENSION—Cost not stated. Sunnyvale, Santa Clara Co., Cal. Engineer, Town Engineer, Sunnyvale. Owners, Town of Sunnyvale. The Board of Trustees of the town of Sunnyvale at their regular meeting instructed the water superintendent to make the necessary extensions of the water system on Mathilda, Washington and McKinley avenues.

STREET IMPROVEMENT—Cost not stated. Monterey, Monterey Co., Cal. Engineer, City Engineer, Monterey. Owners, City of Monterey. The City Council has passed new resolutions providing for the following street improvements: That Main street, from the north line of Maddison street to the north line of Jefferson street (produced) be improved to the official grade as follows. The roadway of said Main street to be graded and macadamized from gutter line to gutter line. Macadam to be 6 inches in depth at the crown and 4 inches in depth at the gutter lines, except at street intersections, where the macadam shall be of uniform depth of 6 inches. Macadamized sidewalks and concrete curbs and gutters to be constructed along both sides of said Main street. Concrete curbs to be 6 inches wide at the top, 9 inches wide at the bottom and 16 inches in depth. Concrete gutters to be 2 feet wide and 4 inches in depth. One catch basin with connection to storm sewer manhole to be constructed at the intersection of Main and Jefferson streets, also that Tyler street from the north line of Pearl street to the south line of Franklin street be improved to the official grade as follows: The roadway to be graded and macadamized from gutter line to gutter line. Concrete sidewalks and concrete curbs and gutters to be constructed along both sides of said roadway. Bids on this work will be called for shortly.

Contracts Awarded.

HOSPITAL COTTAGES — 1 story and base, frame, $17,000. Woodside, San Mateo Co., Cal. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owners, Drexler Home for Girls. Contractors, Stockholm & Allyn, Monadnock Bldg., S. F. Contract price, $17,000.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

VIADUCT—Reinforced concrete. Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor Arnold, Martinez. Owners, Contra Costa County. The Board of Supervisors has issued a call for bids for constructing the overhead crossing of the Southern Pacific tracks on the line of the Martinez-Bay Point road at Peyton. The bids are to be received on February 21st. The cost of the bridge, which is to be sufficiently long to span four tracks, is to be borne jointly by the county and the railroad company. Plans may be secured from the County Clerk at Martinez.

BRIDGE—Reinforced concrete. Cost not stated. Markhams, Sonoma Co., Cal. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma County. Supervisor William King presented plans and specifications at the last meeting of the Supervisors for the proposed new count bridge to be constructed across Russian River at Markhams. Bids for this work will be called for shortly.

STREET IMPROVEMENT — Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The City Council at their last meeting granted permission to Hutchinson & Co., Fifth and Franklin streets, Oakland, contractors, to macadamize South D street from San Rafael avenue to Anderette avenue, F street extension and Cedar and Pine streets by private contract.

STREET IMPROVEMENT — Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council, City manager Bolini submitted plans and

specifications for the improvement of Center, Pine and South D streets, and they were adopted. Bids on this work will probably be called for at the next meeting.

Contracts Awarded.

STREET IMPROVEMENT — Cost not stated. Antioch, Contra Costa Co., Cal. Engineer, Town Engineer, Antioch. Contractors, Raisch Improvement Co., Chronicle Bldg., S. F. Contract price not stated. The streets to be improved are 1, 2nd, G, 7th, B, C, L, H, etc.

BATH HOUSE FILTERS — $2,780. San Rafael, Marin Co., Cal. Architect's name not given. Owner, Town of San Rafael. Contractors, California Jewell Filter Co., Merchants' Exchange Bldg., S. F. Contract price, $2,780.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

CATERPILLAR — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be received until February 10th for the furnishing of one 45 horse power caterpillar for the Fourth Supervisorial District.

IRRIGATION PROJECT — Cost not stated. Terra Bella, Tulare Co., Cal. Owners, Terra Bella Irrigation District. Consulting Engineer Kieffer reports the irrigation project has been adopted by directors of the Terra Bella Irrigation District. Walter McClenahan and W. A. Kraner, of the contracting firm of McClenahan-Kraner-Carter Co. of San Francisco, have appeared before the board stating they could handle the district bonds if the contract for the improvements to be made was awarded to them. No action was taken.

IRRIGATION RESERVOIR — Reinforced concrete, $165,419. Oakdale, Stanislaus Co., Cal. Engineer, Chief Engineer, Oakdale. Owners, South San Joaquin Irrigation District. Contractors, Keystone Construction Co., Portland. Contract price, $165,419.

RESIDENCE — 1 story and base, frame, $3,000. Kingsburg, Fresno Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owner, Claude Roche. Will contain six rooms, bath and sleeping porch. Interior finish pine and ahrdwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with resawed rustic. Plans being prepared.

SCHOOL COMPLETION—Class A construction. Cost not stated. Fresno, Fresno Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Arthur Arlett, 251 Post street, S. F. who is in charge of the completion of the State Normal School at Fresno, states that informal bids are now being taken by the State Architect for the plastering, sheet metal work, painting and ornamental iron work. Plans can be seen at the offices of Mr. Arlett. As soon as contracts for these parts of the work have been let bids will be taken for the finish carpentry.

OFFICE—1 story and base, reinforced concrete. Cost not stated. Oakdale, Stanislaus Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Oakdale Irrigation District. Revised plans for the general office building to be erected in Oakdale have been completed and are now out for figures. Bids will be opened on February 8th. Interior finish pine and hardwood. Central heating plant. Exterior faced with cement plaster. Plans can be secured from the office of the architects

STORES—2 story and base, brick and concrete. Cost not stated. Delano, Kern Co., Cal. Architect, J. M. Saffel, Fiske Bldg., Bakersfield. Owner, John J. Schlitz. Location, 1 street, covering an area of 50 by 100 feet. Will contain a large general store. Interior finish pine with some hardwood. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans being prepared.

LAYING CONCRETE DRAIN—Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, Herrmann, Modesto. Owners, Modesto Irrigation District. Bids will be received until February 8th at 10 a. m. for the construction of a 24-inch concrete pipe drain in the bottom of the main drainage canal of the Modesto Irrigation District, between Engineer's Station 178 plus 35 and Engineer's Station 228 plus 35.

PUMPING PLANT—Cost not stated. Fresno, Fresno Co., Cal. Engineer's name not given. Owners, Mountain View Cemetery Association, Fresno. The proposition of constructing a pumping plant in the Mountain View Cemetery is being considered by the newly elected officers of the Mountain View Cemetery Association. Further mention will be made of this work.

GARBAGE INCINERATOR — Reinforced concrete. Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Clerk has been authorized to advertise for bids on a contract for the destruction by cremation of city garbage for a period of ten years. It is understood the incinerator must not be in the north end of the city but must be outside of the city limits. Bids close February 21st. Further information may be had from the City Clerk at Fresno.

SCHOOL—1 story and base, brick concrete or hollow tile. Cost not stated. Modesto, Stanislaus Co., Cal. Architects, Hewitt & De Remer, Title Insurance Bldg., L. A. Owners, City of Modesto. Location, West Side. Will contain eight class rooms, domestic science and manual training departments. Interior finish pine with maple floors. Steam heat and oil burning system. Reversible windows. Exterior cement plaster or pressed brick. Plans being prepared.

SCHOOL—1 and 2 story and base, brick, reinforced concrete or hollow tile. Cost not stated. Modesto, Stanislaus Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bldg., Stockton. Owners, City of Modesto. Will contain accommodations for 600 pupils and auditorium seating 1,000 people. Interior finish pine with maple floors. Steam heat, oil burning plant, vacuum cleaning and slate blackboards. Reversible windows. Exterior faced with cement plaster or pressed brick. Plans being prepared.

Contracts Awarded

REINFORCED CONCRETE PIPE—Cost as follows. Modesto, Stanislaus Co., Cal. Engineer, Herrman, Modesto. Owners, Modesto Irrigation District. Contractor, F. R. Way, Modesto. Contract price 72½c per foot for 5,000 feet of 24-inch reinforced concrete pipe. Separate bids will be called for at once for laying the pipe.

IRRIGATION TUNNEL — $56,787. Oakdale, Stanislaus Co., Cal. Engineer, Chief Engineer, Oakdale. Owners, Oakdale Irrigation District. Contractor, James Willison, Modesto. Contract price, $56,787. Bids of the Pacific Construction Co. and Twohy Bros. were also retained in case Willison does not sign up. Bids for the work ran as high as $110,000.

SEWER CONSTRUCTION — $1,384. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, Lloyd S. Stroud, Bakersfield. Contract price, $1,384.

STREET PAVING—Cost as follows. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price, $12,83 per square foot for pavement and 33c per lineal foot for curbs.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

WEIR CONSTRUCTION — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The plans for the Sacramento weir have received the approval of the Chief of the Army Engineers at Washington. The weir, which is to offer an easement for the flood waters into the Sacramento by-pass, is a concrete structure with its sill at elevation 25, U. S. E. D., which corresponds to about 22 feet of the Sacramento City river gauge. Upon this concrete structure is a superstructure which is to carry the Yolo County public road and also the tracks of the Sacramento and Woodland Railroad. There will also be located on this foundation gates in 40-foot sections, which will work automatically on rise of the flood plane, one 40-foot section being lowered for each three inches of rise above the danger plane. None of these gates will open, however, until the river has reached elevation 31, U. S. E. D., corresponding to about 28 feet at the Sacramento City gauge. Further mention will be made of this work.

STORM WATER SEWERS—$4,643.98. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council bids for furnishing labor and materials and constructing storm sewers on East street, from a point 31.8 feet south of the center line of Sonora street to Mormon Channel were opened. The bids were as follows: W. S. Gause, Piedmont, Oakland, $5,747.82; Marin Rock Co., San Anselmo, $5,494.30; Chambers & Heafey, Bacon Bldg., Oakland, $6,101.85; Fred Meyers, 120 E-23rd street, Richmond, $6,106.05; D. Bishop, Stockton, $5,397.73; Wm. F. Edwards, 675 31st street, Oakland, $5,887.31. The bids were taken under consideration. The engineer's estimate for the job was $4,643.98.

LEVEE CONSTRUCTION — Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the City Council's last meeting plans and specifications for the improvement of Steamboat levee by grading and graveling a strip 16 feet wide and 750 feet long, commencing at the ending of the present pavement near the south line of Fremont street and extending 750 feet.

HOSPITAL COTTAGE—1 story and base, reinforced concrete. Cost not stated. Napa, Napa Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids are now being taken and will be opened on February 17th for alterations and additions to the South Pay Cottage at the Napa State Hospital. An official proposal appears in another column of this issue. Plans can be secured from the office of the State Engineer at Sacramento.

SUBWAY—Reinforced concrete, $25,000. Lodi, San Joaquin Co., Cal. Engineer, City Engineer, Lodi. Owners, City of Lodi. The City Council is considering the passage of a resolution providing for the construction of a subway under the Southern Pacific tracks on Pine street. The reason for wanting the subway at once is the fact a new school house is to be built on the east, necessitating the children of three grades crossing the track four times a day during school months.

WAGON SHED AND STORAGE BUILDING—1 story, frame, $3,000. Sacramento, Cal. Architect, none. Owners, McGilvray Construction Co., Nicholaus Bldg., Sacramento. Location, Upper Sacramento Road. Designed for wagon storage and storage space. No interior finish. Exterior rustic and galvanized iron. Plans complete and work to be done by Day Labor.

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGE WORK—Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on February 3rd at 2 p. m. for supplying structural steel and cast iron for four bridges, as follows: (1) Saticoy bridge, consisting of 6 steel spans each 129 feet 6 inches long. (2) Sespe bridge, consisting of one steel span 240 feet long. (3) Casitas bridge, consisting of one combination steel and timber span 200 feet long. (4) La Crosse bridge, consisting of one combination steel and timber span 150 feet long. Approximate estimate of quantities in the four bridges is as follows: Structural steel, 660,350 pounds; bolts and washers, 3,000 pounds; cast iron, 15,800 pounds.

ROAD CONSTRUCTION — $29,000. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Plans and specifications have been approved by the County Supervisors and bids have been ordered received up to February 4th for the construction of the Matilija road. The plans call for a roadway about 6 miles in length, beginning at a point on the Meiners ranch about 3 miles from the town of Nordhoff and where the Foothills road strikes the old road into the Matilija Canyon. The estimated cost of the road, which terminates at the Myers Matilija Springs, is placed at $29,000, this to include several bridges, one of 70-foot span at the mouth of the North Fork.

SAND, GRAVEL AND CEMENT — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The specifications submitted by the City Highway Commission to the Supervisors for cement, gravel and sand for county highways were approved and bids are being taken, to close February 7th, 11 a. m. The specifications call for 100,000 tons of gravel, 50,000 tons of sand and 15,000 tons of cement. Further information may be had from the Clerk of the Board of Supervisors at Ventura.

FACTORY—1, 2 and 3 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Engineer, Engineering Department American Can Co. Plans are now out for figures for a large factory building in Los Angeles. Construction will be fireproof. Exterior faced with cement plaster. Bids are being taken both in San Francisco and in Los Angeles.

HOSPITAL—1 and 2 story and base, reinforced concrete, $160,600. Los Angeles, Cal. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. Plans are being completed for the following additional buildings at the County Hospital site: Tuberculosis ward buildings to cost $250,000; service building to cost $100,000, and a new power building and stack to cost $26,000. The equipment for the above buildings is estimated at $69,150. Also plans for grading grounds, this latter work to be carried on under the supervision of the County Road Department and is estimated to cost $15,550. Bids will probably be advertised for the latter part of this month.

PLUNGE—Reinforced concrete $10,000. Pasadena, Los Angeles Co., Cal. Architect, Joseph F. Rhodes, Central Bldg., L. A. Owners, Midwick Country Club. Plans have been completed for a plunge 35 by 75 feet and figures will be taken at once. Plunge will be lined with enamel brick. Plans can be secured from the architect.

BRIDGES—Reinforced concrete. Cost as follows. Santa Barbara, Santa Barbara Co., Cal. Engineers, McCurdy Bros., Pacific Electric Bldg., L. A. Owners, Santa Barbara County. Sealed bids will be received by the Board of Supervisors of Santa Barbara County until 10 o'clock a. m. February 7th, for the construction of four reinforced concrete bridges to span the Nojqui River. Two of the bridges will be of single arches, of 50 feet, 21 feet wide, and estimated to cost $6,750 and $8,600, respectively; one of 65 feet arch, estimated to cost $9,250, and one girder bridge to consist of two 50-foot spans, estimated to cost $14,800.

WATER SYSTEM EXTENSION—$25,731. Los Angeles, Cal. Engineer, City Engineer, L. A. Owners, City of Los Angeles. The Municipal and Industrial Euipment Co., Story Bldg., L. A., was the lowest bidder at $25,731 for furnishing all labor and material for installing a water system in Los Angeles County Water District No. 1. The [illegible] will include furnishing [illegible] stalling [illegible] inch and 6-inch pipe [illegible] raising tank and installing derrick and winding gear. Bids taken under advisement.

RESIDENCE — 2 story and basement, hollow tile, $40,000. Pasadena, Los Angeles Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. [illegible] Daniels. Location, Arroyo Seco. Will contain seventeen rooms, several baths, sleeping porches and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath room finished in tile. Steam heat and hot water circulating system. Open fireplaces and tile mantels. Exterior covered with cement plaster. Plans being prepared.

PAVING—$15,900. Long Beach, Los Angeles Co., Cal. Engineer, City Engineer, Long Beach. Owners, City of Long Beach. James J. Fraser, Marine Bank Bldg., Long Beach, was the lowest bidder at $15,900 for grading and constructing macadam and concrete paving on 2.6 miles of Anaheim street, from Nimeno avenue to the county boundary in Road Improvement District No. 56. The next lowest bidder was J. Hein at $15,919. Estimated cost, $18,326. The bids were taken under advisement.

SEWER CONSTRUCTION — $100,000. Hollywood, Los Angeles Co., Cal. Engineer's name not given. Owners, City of Hollywood and Universal Film Co. The Universal Film Co. has been granted permission by the Los Angeles Board of Public Works to connect Universal City with the Hollywood sewer system and connection is estimated at $100,000.

DRAINAGE SYSTEM — $75,000. Long Beach, Los Angeles Co., Cal. Engineer, City Engineer Pearsall, Long Beach. Owners, City of Long Beach. The Board of Supervisors has approved the Signal Hill drainage project, and plans and specifications will be completed at once. They will include the drainage of the water into a natural depression, where the silt will settle and from which the surplus water will be carried off by a pipe line laid via State street to the harbor.

Contracts Awarded.

WAREHOUSE—4 story and basement, brick and steel, $23,000. Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Los Angeles Soap Co. Contractors, Alpeter, Hall & Alpeter, Ferguson Bldg., L. A. Contract price, $30,000.

RESIDENCE — 1 story and basement, frame, $30,000. Los Angeles, Cal. Architect, W. J. Dodd, Marsh-Strong Bldg., L. A. Owner, W. J. Dodd. Contractor, C. D. Goldthwaite, Marsh-Strong Bldg., L. A. Contract price, $30,000.

STREET PAVING—Cost as follows: Ontario, San Bernardino Co., Cal. Engineer, City Engineer B. B. Mann, Ontario. Owners, City of Ontario. Contractors, Ford & Stout, Bradbury Bldg., L. A. Contract prices, $21,139.11 and $23,791.22

PORTLAND AND OREGON

WATER TANK—Redwood. Cost not stated. Marshfield, Ore. Engineer, R. H. Corey, Marshfield. Owners, North Bend Water Works Co. R. H. Corey, of

the North Bend Water Works Co., states that he is now taking figures from both Portland and San Francisco manufacturers of wood tanks for furnishing and erection, complete, of a water tank to hold 250,000 gallons, which has been ordered installed there by the Public Service Commission.

SEATTLE AND WASHINGTON

BRIDGE—Steel and concrete, $300,000. Seattle, Wash. Engineer, City Engineer, Seattle. Owners, City of Seattle. The City Engineer's office has set March 3rd at 10 a. m. as the time for opening bids for the construction of the proposed concrete and steel bridge across the Lake Washington Canal at 10th avenue N. E. The structure will be of the double leaf bascule type with a clear span of 175 feet. It will be 44 feet wide, providing for two roadways and two 6-foot sidewalks. There will be 1,200 feet of temporary wooden approach, which will be constructed by Day Labor. Substructure is estimated to cost $100,000 and superstructure $200,000. Further information may be had from the City Engineer's office at Seattle.

COMPRESSOR PLANT—1 story and base, reinforced concrete, $30,000. Seattle, Wash. Engineer, J. R. West, Port of Seattle Commission, Seattle, Owners, City of Seattle. Location, East waterway, covering an area of 110 by 110 feet. Complete steel frame and reinforced concrete floor and walls. Exterior faced with cement plaster. Special machinery. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, brick. Cost not stated. Seattle, Wash. Architect, B. D. Stuart, Lumber Exchange Bldg., Seattle. Owner's name not given. Location, Denny Way. Will contain fifty suites of two and three rooms with wall beds and private baths. Interior finish pine and elm panels. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

PIPE LINE AND RESERVOIR — Reinforced concrete, $3,000,000. Seattle, Wash. Engineer, City Engineer Dimock, Seattle. Owners, City of Seattle. At a recent meeting of the City Council the bill of R. B. Hesketh for a new concrete pipe line from Landsburg to the city reservoirs, was adopted and referred to City Engineer Dimock for a report and estimate of cost. Figures for the work have already been compiled, and will be submitted to the Council shortly.

SCHOOL—3 story and base, reinforced concrete, $150,000. Seattle, Wash. Architects, Bebb & Gould, Denny Bldg., Seattle. Owners, University of Washington. Building will be known as the Political Science Building, and will house the science departments as well. Interior finish pine and hardwood with maple floors. Steam heat and vacuum cleaning. Exterior faced with cement plaster. Working drawings will be completed about February 15th, when bids will be called.

Contracts Awarded.

BATH HOUSE—1 story and base, reinforced concrete, $150,000. Seattle, Wash. Architect, B. Marcus pretica, Pantages Theatre Bldg., Seattle. Owners, C. D. Stimpson et al. Contractor, Hans Pederson, Madison Bldg., Seattle. Contract price, $150,000.

DECEMBER SPLENDID FINISH IN BUILDING OPERATIONS.

December made the best monthly record of the year 1915 in the total of building permits issued. The aggregate for 75 principal cities, according to official reports received by the American Contractor, Chicago, is $71,286,630, compared with $38,357,744 for December, 1914. The comparative showing for November was a gain of 75 per cent; that for October, a gain of 42 per cent; September, 32 per cent; August 14 per cent; while for the first seven months of the year there were heavy losses as compared with the corresponding months of 1914. Even San Francisco makes a good showing in December, a remarkable presentation in view of the stimulated construction work in 1914 incidental to the Panama Exposition. Only 19 of the 75 cities make an adverse report for the month, most of these losses occurring in the smaller cities where the report of a single large office building would be sufficient to turn the scales sharply one way or the other. New York makes for the month the remarkable gain of 173 per cent. Chicago gains 71 per cent and Philadelphia 114 per cent. Many of the cities of smaller population make tremendous gains, as shown by the figures below. In detail the returns are as follows:

City	Dec. 1915.	Dec. 1914.
Akron	$ 566,425	$ 143,420
Albany	458,850	320,460
Alameda	14,090	12,103
Atlanta	255,559	132,724
Baltimore	360,842	243,750
Berkeley	215,900	73,700
Birmingham	140,485	100,307
Boston	2,585,093	3,323,862
Buffalo	895,000	347,000
Cedar Rapids	85,000	547,650
Chattanooga	92,726	28,258
Chicago	10,640,200	6,214,050
Cincinnati	1,113,110	209,045
Cleveland	2,985,825	1,216,775
Columbus	150,340	1,005,200
Dallas	311,160	110,025
Dayton	120,195	23,005
Denver	128,440	593,520
Detroit	2,966,360	1,440,370
Duluth	172,491	78,975
East Orange	61,066	115,771
Evansville	523,842	13,833
Fort Wayne	106,500	272,000
Grand Rapids	130,770	125,750
Harrisburg	108,450	17,100
Hartford	318,390	284,605
Indianapolis	434,736	219,460
Kansas City	612,525	223,600
Lincoln	64,685	35,600
Little Rock	42,838	36,572
Los Angeles	1,036,288	651,639
Manchester	54,615	197,467
Memphis	110,040	52,200
Milwaukee	760,467	430,007
Minneapolis	1,294,340	521,400
Montclair	256,259	91,061
Newark	493,427	311,632
New Haven	283,955	495,970
New York City	12,254,772	4,489,264
Manhattan	4,126,085	1,544,744
Bronx	2,286,886	292,072
Brooklyn	4,297,930	1,598,315
Borough of—		
Queens	1,407,909	845,007
Richmond	135,962	209,126
Oakland	286,549	278,891
Oklahoma	61,850	7,865
Omaha	643,830	216,475
Paterson	232,147	68,635
Peoria	171,171	79,925
Philadelphia	2,703,070	1,261,350
Pittsburgh	2,995,596	3,473,100
Portland	286,445	1,601,355
Richmond	285,187	212,502
Rochester	647,300	363,599
St. Joseph	37,331	24,295
St. Louis	637,977	378,791
St. Paul	1,816,731	510,646
Sacramento	153,669	59,083
Salt Lake City	78,760	171,450
San Antonio	334,500	69,295
San Francisco	2,273,766	1,690,426
Schenectady	75,990	83,878
Scranton	92,101	128,406
Seattle	605,385	1,298,165
Shreveport	87,012	17,817
Sioux City	165,400	66,610
South Bend	17,006	35,980
Spokane	15,120	18,700
Springfield, Ill.	57,200	33,375
Syracuse	359,895	145,403
Tacoma	55,088	43,475
Toledo	350,425	144,915
Topeka	26,750	6,625
Troy	28,935	61,335
Utica, N. Y.	54,150	89,740
Washington	540,679	433,036
Wichita	188,050	31,700
Wilkes Barre	79,786	42,029
Worcester	226,822	175,440
Total	$70,044,721	$38,357,741

REPORT OF CORPORATION DEPARTMENT.

SACRAMENTO, Cal., January 22.—Commissioner of Corporations H. L. Carnahan has revoked the authorization given International Hospital Association of Stockton to dispose of its shares upon complaint that the Association is not meeting its obligations to care for its members.

The Delta Kappa Epsilon Association is permitted to sell 933½ shares of its capital stock at par, for cash, with which to build a chapter house at Stanford.

Electro Manufacturing o., Petaluma is permitted to issue 60 shares in exchange for the business of the Electro Hatch Incubator Company, to sell 1,000 shares at par, $10 per share, for cash, to net not less than 85%, and to issue a like number of shares to Frank P. Sallows and Patrick R. Ryan Rorke in exchange for Letters Patent.

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
152	Cal Rlty Co.	Hjul	150000
159	Rossi	Exposition	450
160	Jennings	Fennell	461
161	Fashion Rest.	Collegari	400
162	Chamberlain	MacDonald	400
163	Wise	Wise	400
164	Nelson	Nelson	2500
165	Nelson	Nelson	4000
166	Wolfenden	Wolfenden	3000
167	Wolfenden	Wolfenden	3000
168	W'n Sugar	Lindgren	12700
169	De Marais	Wilson	500
170	Lorenzini	Seghieri	400
171	Bryant	Bryant	4000
172	Christiansen	Owner	4000
173	Same	Same	4000
174	Arnott	Arnott	1800
175	Arnott	Arnott	1800
176	McGrau	Mullen	400
177	Univ Light	Univ Light	700
178	Burns	Klein	1600
179	Rufener	Novelty	400
180	Lehman	Doyal	500
181	McKay	McKay	1000
182	Smith	Smith	1000
183	Gardner	Schmidt	400
184	Kiernan	O'Brien	12000
185	Stafford	Binet	4890
186	Smith et al	Reite	44750
187	Bollman	Flaherty	925
188	Same	Otis	1990
189	Pac Oil & Lead	Rialto	3148
190	Vargas	Sabredra	2000
191	Scott et al	Dilk	500
192	Britt	Britt	425
193	Weissbein	Cleese	1900
194	Schmitt	Whitton	400
195	Trost	Trost	40000
196	S F Home Bldg.	Carlson	450
197	Button	Button	3600
198	Union Iron	Ralston	69000
199	Same	Van Sant	60050
200	Cofer	Cobby	1720
201	Paymour	Phillips	2340
202	O'Brien	Kiernan	16000
203	Sagron	Sagron	1000
204	Purcell	Purcell	2850
205	Bercut	Greater City	2500
206	McCreery	Nielson	7000
207	Wilson	Henderson	10284

ALTERATIONS
(159) NO. 253 OR 257 POST. Alter store.
Owner.....P. Rossi & Co., 251 Post, San Francisco.
Architect ...None.
Contractor..Exposition Woodworking Co., 743 Cough, S. F.
COST, $450

UNDERPIN WALL
(160) NO. 1230 SUTTER. Underpin wall.
Owner.....Mrs. Rebecca Jennings, Spear nr. Howard, S. F.
Architect ...None.
Contractor..Jas. S. Fennell, 180 Jessie, San Francisco.
COST, $461

ALTERATIONS
(161) NO. 171 O'FARRELL. Alter restaurant.
Owner.....Chas. Fashion Restaurant, 139 Ellis, San Francisco.
Architect ...None.
Contractor..C. Callegari, Broadway nr Mason, San Francisco.
COST, $400

ALTERATIONS
(162) NO. 39 GEARY. Alter lunch room.
Owner.....Siiva Chamberlain et al, Mills Bldg., S. F.
Architect ...None.
Contractor..Graeme MacDonald, 29 Montgomery, S. F.
COST, $400

ALTERATIONS
(163) NO. 204 BRAZIL. Alter for store.
Owner.....M. G. Wise, Premises.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(164) W TWENTY-EIGHTH AVE 130 N Irving. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(165) SW TWENTY-EIGHTH AVE & Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $4000

FRAME DWELLING
(166) E FORTY-THIRD AVE 292-6 N Fulton. Two-story and basement frame dwelling.
Owner.....Lillie Wolfenden, 827 Waller, San Francisco.
Architect ...None.
Contractor..George Wolfenden, 827 Waller, San Francisco.
COST,$3000

FRAME DWELLING
(167) E FORTY-THIRD AVE 265 N Fulton. Two-story and basement frame dwelling.
Owner.....Lillie Wolfenden, 827 Waller, San Francisco.
Architect ...None.
Contractor..George Wolfenden, 827 Waller, San Francisco.
COST,$3000

INTERIOR FINISH
(168) NE TWENTY-THIRD AND Louisana. All work for interior finish for new refinery building.
Owner.....Western Sugar Refining Co., composed of John D. and A. B. Spreckels.
Chief Engineer ...W. E. Murray, 60 California, S. F.
Contractor..Lindgren Co., Monadnock Bldg., S. F.
Filed Jan. 15, '16. Dated Jan. 14, '16.
½ of work performed and furnish ½ of materials and labor..$6350
Usual 35 days..... 6350
TOTAL COST, $12,700
Bond, $6350. Surety, California Casualty Co. Limit, 45 working days from filing. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(169) NO. 2776 MISSION. Alter for store.
Owner ....Mrs. Marie De Marais, 2776 Mission, San Francisco.
Architect ...None.
Contractor..Wilson & Christinsen, 89 Broadway, San Francisco.
COST, $500

CEMENT FLOOR
(170) NO. 3375 SACRAMENTO. Cement floor.
Owner.....V. Lorenzini, 428 Walnut, San Francisco.
Architect ...None.
Contractor..G. Seghieri & Bros., Inc., 35 Cook, San Francisco.
COST, $400

FRAME RESIDENCE
(171) N SANTA BARBARA AVE 85 to E Portola Drive. Two-story and basement frame residence
Owner.....A. W. Bryant Bldg. Co., 1372 9th Ave., S. F.
Architect ...S. A. Bryant, 139 Steiner, San Francisco.
Contractor..A. W. Bryant, 1372 9th Ave., San Francisco.
COST, $4000

FRAME FLATS
(172) W TENTH AVE 200 S Judah. Two-story and basement frame (2) flats.
Owner.....John Christiansen, 348 Carl, San Francisco.
Architect ...Koenig & Christiansen, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $4000

FRAME FLATS
(173) N CALIFORNIA 95 E 25th Ave. Two-story and basement frame (2) flats.
Owner.....H. C. Christiansen, 1345 4th Ave., San Francisco.
Architect ...Koenig & Christiansen, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $4000

FRAME DWELLING
174) N MEDA 125 W Otsego. One-story and basement frame dwelling.
Owner.....Jas. Arnott & Son, 1322 3d Ave., San Francisco.
Architect .. None.
Day's work. COST, $1800

FRAME DWELLING
(175) N MEDA 150 W Otsego. One-story and basement frame dwelling.
Owner.....Jas. Arnott & Son, 1322 3d Ave., San Francisco.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
(176) NO. 1114 VAN NESS AVE. Alter for salesroom.
Owner.....McGrau Tire & Rubber Co. Premises.
Architect ...None.

Contractor. Mullen Manufacturing Co., 64 Rausch, San Francisco.
COST, $100

ADDITION
(177) SE FILLMORE & TURK. Add to power house.
Owner.....Universal Light & Power Co., Claus Spreckels Bldg., San Francisco.
Architect ...None.
Day's work. COST, $700

FRAME DWEELING
(178) E TENTH AVE 200 S Noriega. One-story and basement frame dwlg.
Owner.....T. A. Burns 116 Lyon, San Francisco.
Architect ...None.
Contractor..F. A. Klein, 1423 24th Ave San Francisco.
COST, $1000

ELECTRIC SIGN
(179) NO. 684 ELLIS. Electric sign.
Owner.....L. E. Rufener, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ALTERATIONS
(180) NOS. 88, 90, 92, 94, 96, 98 YORK. Raise and underpin six cottages.
Owner.....J. Lehman, 108 Eagle Ave., San Francisco.
Architect ...None.
Contractor..H. E. Doyal, 51 Curtis, San Francisco.
COST, $500

ALTERATIONS
(181) E CAPP 196 S Twenty-third. Alter for tenements.
Owner.....Mary McKay, 841 Capp, San Francisco.
Architect ...None.
Contractor..H. E. McKay, 841 Capp, San Francisco.
COST, $1000

ALTERATIONS
(182) E COLLINGWOOD 192-6 N 20th. Alter residence.
Owner.....Mrs. E. Smith, 280 Collingwood, San Francisco.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(183) NO. 117 STOCKTON. Alter store
Owner.....Mr. Gardner, 2511 Mission, San Francisco.
Architect ...None.
Contractor..L. Schmidt, 448 Jessie, San Francisco.
COST, $100

FRAME STORES, ETC.
(184) NW VAN NESS AND VALLEJO. Three story and basement frame stores and (8) apartments.
Owner.....Kiernan & O'Brien, 1750 Mission, San Francisco.
Architect ...Theo. W. Lenzen, 709 Humboldt Bank Bldg., San Francisco.
Day's work. COST, $12,000

FRAME FLATS
(185) W GUERRERO 145 S 14th 25x 131-9. All work except electric fixtures for two-story and basement frame flats.
Owner.....Frank and Mary Stafford, 348 Vallejo, San Francisco.
Architect ...None.
Contractor..Jno. J. Binet & Co., 48 Ramona, San Francisco.
Filed Jan. 18, '16. Dated Jan. 17, '16.
Frame up $1222.50
Brown coated 1222.50
Completed 1222.50
Usual 35 days..... 1222.50
TOTAL COST, $4890.00
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

CONCRETE APARTMENTS
(186) N POST 176-3 E Jones E 40xN 60. All work for six-story and basement reinforced concrete apartments.
Owner.....Thos. Smith and J. L. Stewart, 244 Kearny, S. F.
Architect ...Smith & Stewart, 244 Kearny, San Francisco.
Contractor..J. B. Reite, 110 Jessie San Francisco.
Filed Jan. 18, '16. Dated, —.
Excavation and foundations completed and 1st story columns ready to pour $5568.75
3d story column ready to pour 5568.75
5th story oolumn ready to pour 5568.75
Roof on 5568.75
Brown coated 5568.75
Completed and accepted..... 5568.75
Usual 35 days.....11,337.50
TOTAL COST, $44,750.00
Bond, none. Limit, 130 days from recording. Forfeit, none. Plans and specifications filed.

COMPOSITION ROOFING
(187) SE FOURTH AND BRANNAN 137-6 on Brannan and 275 on Fourth All work for composition roofing for three-story and basement reinforce concrete warehouse.
Owner.....The John Bollman Co., Commercial & Battery, S. F. by Lange & Bergstrom, Sharon Bldg., S. F.
Architect ...Charles P. Weeks, Mutual Bank Bldg., San Francisco.
Contractor..Flaherty Roofing & Paving Co., 110 Jessie, S. F.
Filed Jan. 19, '16. Dated Jan. 7, '16.
Payments on or before the 10th day of the month 75%
Usual 35 days..... 25%
TOTAL COST, $925
Bond, limit, forfeit, none. Plans and specifications, none.

(188) 1 ELECTRIC FREIGHT ELEVator on above.
Contractor..Otis Elevator Co., Beach & Stockton, S. F.
Filed Jan. 19, '16. Dated Jan. 3, '16.
On shipment of engine..... ½
Engine in permanent position... ¼
In complete running order..... ¼
TOTAL COST, $1990
Bond, Limit, forfeit, none. Plans and specifications, none.

ELECTRICAL WORK
(189) NW KING 412-6 NE Third NE 72xNW 137-6. Electrical work for building.
Owner.....Pacific Oil & Lead Works, 155 Townsend, S. F.
Supt. ...P. J. Angius, 155 Townsend, San Francisco.
Contractor..Rialto Eng. & Constr. Co., Rialto Bldg., S. F.
Filed Jan. 19, '16. Dated Jan. 6, '16.
On 1st and 15th of each month 75%
10 days after completion....Balance
TOTAL COST not to exceed $3148
Bond, none. Limit, 60 days from Jan. 6, 1916. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(190) NE OAKDALE 100 NW Phelps. Two-story and basement frame (2) flats.
Owner.....Frank Vargas and Clara Ochoa, 1595 Underwood Ave., San Francisco.
Architect ...None.
Contractor..Louis Sabredra, 246 Vienna San Francisco.
COST, $2000

REPAIRS
(191) SE BERRY AND SIXTH. Repair fire damage.
Owner.....Scott, Magner & Miller, 40 California, San Francisco.
Architect ...None.
Contractor..H. Dilk, 58 Faxon, S. F.
COST, $500

ALTERATIONS
(192) NO. 320 IVY AVE. Raise and make new concrete foundation.
Owner.....O. W. Britt, Premises.
Architect ...None.
Day's work. COST, $425

FRAME DWELLING
(193) E THIRTY-SECOND AVE 250 S Anza. One-story and basement frame dwelling.
Owner.....Jacob Weissbein, 582 Market, San Francisco.
Architect ...None.
Contractor..Geo. F. Cleese, 622 36th Ave., San Francisco.
COST, $1900

ALTERATIONS
(194) NO. 253 KEARNY. Alter barber shop.
Owner.....Schmitt Estate, 251 Kearny San Francisco.
Architect ...None.
Contractor..Frederick Whitton, 251 Kearny, San Francisco.
COST, $400

CLASS "C" APARTMENTS
(195) SE MISSION AND TWENTY-sixth. Four-story and basement Class "C" (42) apartments.
Owner.....Robert Trost, 26th and Howard, San Francisco.
Architect ...Fabre & Bearwald, Merchants National Bank Bldg San Francisco.
Day's work. COST, $40,000

ALTERATIONS
(196) NO. 2861 MISSION. Alter flats into apartments.
Owner.....S. F. Home Bldg. Co., 2563 Mission, San Francisco.
Architect ...O. E. Evans, 2861 Mission, San Francisco.
Contractor..John Carlson, 54 Rivoli, San Francisco.
COST, $450

FRAME RESIDENCE
(197) E TWENTY-SIXTH AVE 150 N Irving. Two-story and basement frame residence,

Owner.....Ralph J. Button, 1290 26th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3600

STEEL AND CAST IRON WORK
(198) E MICHIGAN nr 20th. Furnish and erect structural steel and cast iron for iron and brass foundry building of plant of Union Iron Wks.
Owner.....Union Iron Works, Prem.
Architect ...None.
Contractor..Ralston Iron Works, 20th and Indiana, S. F.
Filed Jan. 20, '16. Dated Dec. 22, '15.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $69,000
Bond, $34500. Surety, Guardian Casualty & Guaranty Co. Limit, 200 days. Forfeit, none. Plans and specifications filed.

(199) ALL WORK EXEPT STRUCtural steel and iron work on above.
Contractor..Van Sant-Houghton Co., 503 Market, San Francisco.
Filed Jan. 20, '16. Dated Jan. 4, '16.
On completion of 50% of work 25% of total .....
On completion of 75 % of work 25% additional .....
Completed and accepted..... 25%
Usual 35 days, balance..... 25%
TOTAL COST, $60,056
Bond, $30,025. Surety, Guardian Casualty & Guaranty Co. Limit, 45 days after completion of steel and iron work Forfeit, $50. Plans and specifications filed.

ALTERATIONS
(200) N TURK, between Divisadero & Broderick; No. 1830. Alterations and additions to building.
Owner.....Mrs. E. P. Cofer, 1830 Turk San Francisco.
Architect ...None.
Contractor..J. W. Cobby, 110 Jessie. San Francisco.
Filed Jan. 20, '16. Dated Jan. 19, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1720
Bond, none. Limit, 35 days. Forfeit, $1 per day. Plans and specifications filed.

FRAME DWELLING
(201) E TWENTY-SIXTH AVE 150 N Balboa All work except gas and electric fixtures, finish hardware and shades for one and one-half-story frame dwelling.
Owner.....Gertrude and V. G. Raymoure, 607 4th Ave., S. F.
Architect ...J. A. Madieros, 615 4th Ave., San Francisco.
Contractor..J. H. Phillips, 228 23rd Ave., San Francisco.
Filed Jan. 20, '16. Dated Jan. 4, '16.
Frame up and roof boards on....$585
Rough plaster on and rough plumbing done 585
Completed and accepted..... 585
Usual 35 days..... 585
TOTAL COST, $2340
Bond, $1170. Sureties, Albert Whitman and W. D. Phillips. Limit, forfeit, none. Plans and specifications filed

FRAME APARTMENTS
202) NW VAN NESS AVE AND VALlejo 30 on Van Ness and 95 on Vallejo. All work for three-story frame apartments and stores.
Owner.....O'Brien-Kiernan Realty Co 1750 Mission, S. F.
Architect ...Theo. W. Lenzen, Humboldt Bank Bldg., S. F.
Contractor..Kiernan & O'Brien, 1756 Mission San Francisco.
Filed Jan. 20, '16. Dateld Jan. 20, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $16,000
Bond, none. Limit, 100 days. Forfeit none. Plans and specifications filed.
NOTE:—1st report Jan. 19, No. 184.

ALTERATIONS
(203)NO. 507 TWENTY-THIRD AVE. Alter and add to flats.
Owner.....Andrew Sagron, Premises.
Architect ...None.
Day's work. COST, $1000

FRAME DWELLING
(204) W SIXTEENTH AVE 75 S Balboa. Two-story and basement frame dwelling.
Owner.....J. S. Purcell, 856 Presidio Ave., San Francisco.
Architect ...None.
Day's work. COST, $2850

FRAME STORES
(205) S SACRAMENTO 87½ W Spruce One-story and basement frame store.
Owner.....Bercut Bros., 1730-32 Fillmore, San Francisco.
Architect ...None.
Contractor..Greater City Lumber Co., Army and Alabama, S. F.
COST, $2500

ALTERATIONS
(206) N PINE 87-6 W Sansome (Orient Bldg.). Pent house on top of present roof to be constructed of steel, concrete and hollow tile; connections to be made to present steel columns. Roof of pent house to be of No. 24 gauge "Self Sentering" and 1½ inch concrete slab. Tar and gravel on top of roof slab. Walls on north, east and west sides to be of 4 inch hollow terra cotta tile with cement plaster on the exterior. The walls resting on present roof slab to be No. 24 gauge "Self Sentering" and 2 inch cement plaster walls. Windows to have metal frames and sash and wire glass. Wood floor on 3 inch by 4 inch sleepers. Metal stairs from present 8th floor to pent house floor.
Owner.....Andrew B. McCreery Est. Co., 221 Sansome, S. F.
Architect ...Charles Peter Weeks, 1106 Mutual Bank Bldg., S. F.
Contractor..N. F. Nielsen, 110 Jessie, San Francisco.
COST, $7000

ALTERATIONS
(207) SW TURK AND TAYLOR. Carpenter, mill and brick work, patent flues marble work, iron rails, sheet metal, plastering and lathing and other work for alterations to building known as Grand Hotel.
Owner.....A. W. Wilson.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Jan. 21, '16. Dated Jan. 1[illegible] 16
Exterior galvanized iron cornice and water table and balconies in place and interior and exterior lathing ready to receive plaster.$3788
Completed and accepted... ... 3930
Usual 35 days..... 2571
TOTAL COST, $10,284
Bond, limit, forfeit, none. Plans and specifications, none.
NOTE:—The above is an amended contract reducing the cost from $12,200 to $10,284. Amending contract filed January 3, 1916.

LEASES.

Jan. 11, 1916—NOS. 142 AND 144 FRONT E W Hopkins to Eveleth-Nash Co 3 years. $5400.
Jan. 14, 1916—NOS. 450 AND 451 FRONT E W Hopkins to Wetmore Bros. 3 years. $5400.
Jan. 15, 1916—NO. 300 PAGE NW Cor. Laguna 77.6x120. The Goewey Inv. Co to Robert E Bering and John W Robertson. 2 years. $3600.
Jan. 17, 1916—PTN NO. 1031 MARKET. S E Hubbard to James B Gaffney and Raymond A Luce (as Gaffney & Luce) 7 years 7 months. $6411.
Jan. 17, 1916—N SUTTER 181-6 W Powell N 137-6 W 25-4½ S 207-2½ E 25-8½. Julia Zwieg to Hill Tolerton. 15 years. $31,800.
Jan. 19, 1916—NO. 2639 MISSION E line bet. 22nd and 23rd. H N Turrell to J H Coburn and M A Coburn. 3 years $4500.

SAN FRANCISCO COUNTY.

Jan. 20, 1916—E THIRD 125 N Townsend N 150xE 160. Clinton Constr Co. of California to M J Brandenstein & Co. 15 years with option to renew.
Jan. 21, 1916—SE SIXTH & STEVENson SE 25xNE 78. City and County Bank to A Kappenman. 10 years. $48,000.

INCORPORATIONS.

Liquid Container and Server Corporation. Capital Stock, $150,000; subscribed, $30; shares, $1 each. Directors —E. Schumacher, C. Dunanovich, T. J.

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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PATENTS
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MUNN & Co. 364 Broadway, New York
Branch Office, 625 F St., Washington, D. C.

Davis, 10 shares each. Place of business, San Francisco.

Scherman Bros. & Co. Capital Stock, $5000; subscribed, $5; shares, $1 each. Directors—M. Weintraub, J. Scherman, Sol Scherman, S. Weintraub, R. W. McKnight, 1 share each. Place of business, San Francisco.

Marx Moss Glove Co. Capital Stock, $25,000 subscribed, $30; shares, 10 each. Directors—M. Marx, F. Marx, J Samuels 1 share each. Place of business, S. F.

The Shelton Adjustable Double Desk Cor. Co Capital Stock, $200,000; subscribed, $30; shares, $10 each. Directors J. B. Shelton, T. F. Finney, Guy A. Fleming, 1 share each. Place of business, San Francisco.

NOTICE OF NON-LIABILITY.

Jan. 21, 1916—NW GOUGH & SUTTER N 50xW 137 6. Hattie and Gertrude Israel and Jacob Weissbein, Extr Estate Myer W Israel, dec'd as to improvements on leased property .....

NOTICE OF NON-RESPONSIBILITY.

Jan. 20, 1916 NO. 117 STOCKTON. Hyman Bros Co as to improvements on leased property.....

Jan. 18, 1916—ELLIS N S 39 & 41. Martin Invst Co as to improvements on leased property.....

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED

Jan. 15, 1916—S FILBERT 164 W Baker W 26-6xS 137-6. Harry E Gates to W W Rednall..Jan. 14, 1916

Jan. 15, 1916—S FILBERT 137-6 W Baker W 26-6xS 137-6. Paul M Nippert to W W Rednall..Jan. 15, 1916

Jan. 17, 1916—E ½ LOT 17 all Lot 18 Blk "N" Mission St. Land Co. per Map Sbdvn of Mission St. Land. William H Grahn to whom it may concern.... .....Dec. 28, 1915

Jan. 17, 1916—E HARTFORD 145 S 19th S 28xE 125. Anna Engelberg to Gust R Nelson.....Jan. 15, 1916

Jan. 17, 1916—S GEARY 87-6 E Mason E 25xS 105. Clara Herrscher to Barrett & Hilp.....Jan. 15, 1916

Jan. 17, 1916—N MEDA AVE 75-1 and 100-1 W Otsego Ave 25x70 (2 lots). Jas Arnott & Son to whom it may concern.....Jan. 14, 1916

Jan. 19, 1916—S BUSH 187-6 W Mason W 12xS 137-6. O'Brien Bros, Inc to Pacific Structural Iron Works, C Chiappa Co and Brandon & Lawson.....Completed —

Jan. 19, 1916—N GEARY 62-6 E Jones E 75xN 77-6. Jeremiah Lynch to Jas H Pinkerton Co. Jan. 17; J S Hannah.....Jan. 17, 1916

Jan. 19, 1916—LOT 13 and E 3.16 feet Lot 14 Blk 281S, Forest Hill Court. Conservative Bldg & Invst Co to Wm H Kiler.... .....Jan. 19, 1916

Jan. 19, 1916—W EIGHTEENTH AVE 125 S Balboa S 25xW 120. Edith Leigh to Leigh & Schultz..Jan. 4, 1916

Jan. 19, 1916—W EIGHTEENTH AVE 175 S Balboa S 25xW 120. W H Sale to Leigh & Schultz..Jan. 17, 1916

Jan. 19, 1916—NE PACIFIC AND Leavenworth N 66xE 45. S J Sterner to whom it may concern.. .....Jan. 19, 1916

Jan. 19, 1916—S SUTTER 87-6 E Hyde E 25xS 137-6. L D Stoff to John C Kincanon.....Jan. 10, 1916

Jan. 20, 1916—LOT 380 Gift Map No. 1. Angelo Contratto to whom it may concern.....Jan. 20, 1916

Jan. 21, 1916—W TWENTY-SIXTH Ave 100 N Judah 25x120. G W Baraco to W F Dulfer...Dec. 30, 1915

Jan. 21, 1916—W SHRADER 486-6 S 17th S 35-3⅜ W 100 N 35-2⅛ E 100 Lot 20 New Blk 1289. J W Barton to J W Barton.....Jan. 21, 1916

LIENS FILED

San Francisco

Jan. 13, 1916—S FILBERT 70 m or l W Steiner W 100xS 100. Rex Elec Co vs H A Lehfeldt and E M Reagh $295.10

Jan. 15, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ E 2-3 N 40. F P McKeon vs W M Reagh and Henry A Leahfeldt $600

Jan. 15, 1916—E ELSIE 125 S Esmeralda Ave. The Greater City Lumber Co vs B Finnigan.....$14

Jan. 15, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ E 2-3 N 40. Pacific Manufacturing Co vs E M Reagh.....$2450

Jan. 17, 1916—N GOLDEN GATE AVE 71-10½ E Lyon. Frank Ingigneri vs Hevman Smith and Walter Reip $85

Jan. 18, 1916—W POWELL 116-8 S Sutter S 21 W 80 N 2 in W 20 N 20-10 E 100. Geo C Todhunter, $129; John W Gleadell, $65 vs Joseph T, Ada T, Virginia C and John F Cooney and Lucy Simpson

Jan. 19, 1916—S CALIFORNIA 47-6 E Pierce S 87-6xE 22-6. Henry Conrad vs Wilhelmine Foerst.....$676

Jan. 19, 1916—SW PINE & BATTERY W 97-6xS 45-10. Hansbrough-Johnston Co vs Peck-James Thermo Appliance Co, George Peck, Anna Meloy Donahoe, Anna Meloy Donahoe, tr Est Michael Donahoe, decd $1531.80

Jan. 19, 1916—N CLAY 137-6 W Webster W 32-6xN 127-8¼. S Ingram vs Samuel M, Helene S, Theo and Minna Cohn $300

Jan. 20, 1916—E TWELFTH AVE 75 S Balboa S 25xE 95. Wm A Hayes vs Nellie R Eggers, R McLelland and J S McLelland.....$65

Jan. 20, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. California Brick Co vs E M Reagh and Henry A Lehfeldt $252

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Jan. 14, 1916—W MISSION 75 N Santa Rosa Ave N 25xW 100. R W Kinney to Jacques Narbebury and Axel Davis .....

Jan. 17, 1916—S CALIFORNIA 82-6 W 25th Ave W 50xS 100. Andrew Wagner, J H Kruse, M Streeter and James Cantley to L M and Betty Schuck and Lincoln U Grant.....

Jan. 18, 1916—NW MARKET AND W East N along W Eest to S Commercial, W along Commercial to a pt thereon 481-8 E from E Drumm S 59-9 E 45-8 N 59-9 to a pt in N Sacramento and to 527-4 E from E Drumm E along N Sacramento to intersection with NW Market, E along Market to beg, City slip Lots 118, 119, 121 and 122. H J Hughes to Thos H Day's Sons and Henry Cowell Lime & Cement Co.....

George Nelson, C. E.

Engineering — 560 Mission St.
Financing — San Francisco, Cal.
Developments — 503 Grant Bldg.
Construction — Los Angeles, Cal.

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Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.

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Write for descriptive folder.

Oakland Antioch & Eastern Railway

San Francisco Depot — Key Route Ferry

Friermuth & Price

Civil Engineers & Surveyors

Crocker Building

San Francisco, California

Building Contracts Awarded

Oakland.

70	Whitmore	Corbett	1900
71	Cakalls	Anderson	400
72	Harris	Harris	500
73	Bilger	Doss	500
74	Maasberg	Maasberg	3000
75	Wh Fuel	Cal Constr	6292
76	Scherhage	Flittner	1800
77	Van Sander	Barber	500
78	Sherman	Trounson	2100
79	Nethken	Nethken	1000
80	Flittner	Flittner	1800
81	Cal Cotton Mills	Owner	1000
85	Grandin	Grandin	2200
87	Eggleston	Strang	2910
92	Duncan	Neilsen	1500
93	Pac Coast Cng	Owner	400
94	Banning	Stewart	5000
95	Higgins	Higgins	3500
98	Woodward	McPhee	500
99	Whalen	Whalen	8000
100	Luedecking	Dippo	1900
101	St. Anthony	Brockhage	1100
102	Little	Little	2000

ALTERATIONS
(70) NO. 1013 WASHINGTON, Oakland Alter store.
Owner.....Whitmore & Swan, Prem.
Architect ...None.
Contractor..Corbett & Bayliss, 1110 Franklin, Oakland.
COST, $1900

ALTERATIONS
(71) NO. 1222 BROADWAY, Oakland. Alterations.
Owner.....James Cakalls, Premises.
Architect ...None.
Contractor..John Anderson, 1424 Broadway, Oakland.
COST, $400

ALTERATIONS
(72) NOS. 457-59 TWENTY-EIGHTH, Oakland. Alterations.
Owner.....Fred Harris, Premises.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(73) NOS. 520-24 SIXTEENTH, Oakland. Alterations.
Owner.....F. W. Bilger.
Architect ...None.
Contractor..C. A. Doss, 2528 E-15th, Oakland. COST, $500

DWELLING
(74) W PARK BLVD 230 N Hampel, Oakland. One-story 7-room dwlg.
Owner.....E. Maasberg, 3915 Greenwood Ave., Oakland.
Architect ...None.
Day's work. COST, $3000

BRIDGE
(75) NEAR FOOT FILBERT, Oakland. All work for traveling Gantry coal handling bridge.
Owner.....Western Fuel Co., 1st and Market, Oakland.
Architect ...None.
Contractor..California Constr. Co., Cal Bldg., San Francisco.
Filed Jan. 15, '16. Dated Aug. 19, '15.
10th of each month..... 75%
30 days after..... 25%
TOTAL COST, $6292
Bond, $10,000. Surety, Aetna Accident & Liability Co. Limit, 42 days. Forfeit, none. Specifications only filed.

FRAME DWELLING
(76) LOTS 186 AND 187 Map E. B. and A. L. Stone Co., Elmhurst. All work for one-story frame dwelling.
Owner.....Anna R. and Bernard Scherhage, 2003 Rosedale Ave., Oakland.
Architect ...None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
Filed Jan. 15, '16. Dated Jan. 15, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1800
Bond, none. Limit, 80 days. Forfeit, $1. Plans and specifications filed.

REPAIRS
(77) NO. 2144 TELEGRAPH AVE., Oakland. Repairs.
Owner.....Mrs. Gladys Van Sander, Premises.
Architect ...None.
Contractor..D. E. Barber, 1619 Market, Oakland.
COST, $500

ALTERATIONS
(78) SW FOURTEENTH AND CLAY, Oakland. Alterations.
Owner.....Sherman Clay Co., Premises
Architect ...None.
Contractor..J. Trounson, 121 5th, S. F.
COST, $2100

DWELLING
(79) N PORTER 270 E 35th Ave., Oakland. One-story 4-room dwelling
Owner.....H. Nethken, 3544 Porter, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(80) E THIRTY-FIFTH AVE 20 S E-17th, Oakland. One-story five-room dwelling.
Owner.....Mary Flittner, 1700 35th Ave., Oakland.
Architect ...None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
COST, $1800

STORE ROOM, ETC.
(81) SE TWENTY-SECOND AVE AND Livingston, Oakland. One-story store room and platform.
Owner.....California Cotton Mills, Premises.
Architect ...None.
Day's work. COST, $1000

DWELLING
(85) W ADELINE 70 N 56th, Oakland. One-story 6-room dwelling.
Owner.....Edward Grandin, 1533 Prince, Berkeley.
Architect ...None.
Day's work. COST, $2200

FRAME DWELLING
(87) LOT 56 Nova Piedmont Tract, Piedmont. All work for two-story frame dwelling.
Owner.....Mrs. Mabel T. Eggleston, 3357 Broadway, Oakland.
Architect ...None.
Contractor..V. N. Strang, 1521 9th, Alameda.
Filed Jan. 18, '16. Dated Nov. 22, '15.
Frame up ..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2910
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
(92) W POMONA 60 S Washington, Albany. One story 5-room dwlg.
Owner.....D. G. Duncan.
Architect ...None.
Contractor..K. Neilsen.
COST, $1500

REPAIRS
(93) NO. 1816 TWELFTH, Oakland. Repairs.
Owner.....Pacific Coast Canning Co., Premises.
Architect ...None.
Day's work. COST, $400

DWELLING
(94) S ROCK RIDGE BLVD 366 E Broadway, Oakland. Two-story 8-room dwelling.
Owner.....Banning & Stewart, 521 Broadway, Oakland.
Architect ...None.
Day's work. COST, $5000

DWELLING
(95) E THOMAS 230 N Napa, Oakland. Two-story 6-room dwelling.
Owner.....E. L. Higgins, 5250 Miles Ave., Oakland.
Architect ...None.
Day's work. COST, $3500

ALTERATIONS
(98) NO. 531 THIRTEENTH, Oakland. Alterations.
Owner.....F. J. Woodward, Oakland Bank of Savings Bldg., Okd
Architect ...None.
Contractor..A. J. McPhee, 2144 E-27th, Oakland.
COST, $500

APARTMENTS
(99) SW FORTY-FIRST & MANILA Ave., Oakland. Two-story 16-room apartments.
Owner.....John F. Whalen, 1748 Broadway, Oakland.
Architect ...M. L. Newsom, 1748 Broadway, Oakland.
Day's work. COST, $8000

DWELLING
(100) W MARKET 80 S 40th, Oakland. One-story 5-room dwelling.
Owner.....A. C. Luedecking, 308 Elwood Ave., Oakland.
Architect ...None.
Contractor..Jesperson & Dippo, 878 54th, Oakland.
COST, $1900

ADDITION
(101) W SIXTEENTH AVE, bet E 15th and E-16th, Oakland. Addition.
Owner.....St. Anthony's Church, Premises.
Architect ...None.
Contractor..F. A. Brockhage, 1326 Natoma, San Francisco.
COST, $1100

DWELLING
(102) N WALNUT AVE 150 W Montecello, Oakland. One-story 7-room dwelling.
Owner.....W. H. Little, 4070 Agua Vista, Oakland.
Architect ...None.
Day's work. COST, $2000

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
82	Sullivan	Sullivan	1200
83	Moyer	Broad	400
84	Kern	Kern	3400
86	Muller	Kuivala	6500
96	Killam	Brasch	5500
97	El Dorado Oil	S F Mill	3600

DWELLING
(82) NW DELAWARE & FRANKLIN Berkeley. One-story 6-room dwlg.
Owner.....Mrs. J. F. Sullivan, 1319 Delaware, Berkeley.
Architect ...None.
Day's work. COST, $1200

REPAIRS
(83) NE GRANT AND ADDISON, Berkeley. Repairs.
Owner.....— Moyer.
Architect ...None.
Contractor..A. H. Broad, 2417 Kittridge, Berkeley.
COST, $400

DWELLING
(84) N MARIN AVE 100 W The Circle, Berkeley. Two-story 8 room dwlg.
Owner.....Herbert F. Kern, 1326 Arch Berkeley.
Architect ...None.
Day's work. COST, $3400

GARAGE
(86) S KITTRIDGE opp Harold Way, Berkeley. Two-story Class "C" garage.
Owner.....C. Alvin Muller, 2213 Broadway, Oakland.
Architect ...None.
Contractor..John A. Kuivala, 2431 9th, Berkeley.
COST, $6500

DWELLING
(96) E SAN MATEO ROAD 100 N Indian Road, Berkeley. Two-story 8-room dwelling.
Owner.....J. S. Killam, Central Bank Bldg., Oakland.
Architect ...W. W Dixon, 1844 5th Ave Oakland.
Contractor..M. P. Brasch, 5836 Ocean View Drive, Oakland.
COST, $5500

(97) SW THIRD AND BRISTOL, Berkeley. One-story brick warehouse.
Owner.....El Dorado Oil Works, University Ave and Second, Berkeley.
Architect ...None.
Contractor..S. F. Mill Furnishing Co., 521-523 Seventh, S. F.
COST, $3600

Building Contracts Awarded

ALAMEDA COUNTY.

88	Fortman	Knoppler	1500
89	Hillen	Hillen	2000
90	Soltan	Rockingham	1850
91	Heche	Delanoy	3000

DWELLING
(88) No. 1713 BAY, Alameda. Two-story five room dwelling.
Owner .....E. D. Fortman, 803 Haight Ave., Alameda.
Architect ...None.
Contractor..R. W. Knoppler, 606 Haight Ave., Alameda.
COST, $1500

DWELLING
(89) SW WILLOW AND CLEMENT, Alameda. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(90) No. 3001 LINCOLN AVE., Alameda. One-story 5-room dwelling.
Owner.....John Soltan, 2917 Lincoln Ave., Alameda.
Architect ...None.
Contractor..J. H. Rockingham, 2306 San Jose Ave., Alameda.
COST, $1850

DWELLING
(91) W UNION 192 N Santa Clara, Alameda. One-story 6-room dwelling.
Owner.....Arthur Heche, 802 Haight Ave., Alameda.
Architect ...None.
Contractor..Delanoy & Randlett, 2303 Central Ave., Alameda.
COST, $3000

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Jan. 15, 1916—LOT 10 BLK "I" Northbrae Terrace, Bkly. Lavina M Rother b J Henry Wolbold to Jacob Kollmer.....Jan. 14, 1916

Jan. 15, 1916—THIRD AND GILMAN Bkly. Southern Pacific Co to Hutchinson Co.....Dec. 27, 1915

Jan. 17, 1916—LOT 10 ELMHURST Court, Berkeley. Thomas W Harris to Van Sant-Houghton Co.....Dec. 30, 1915

Jan. 19, 1916—E LINDEN 139½ N 10th N 60xE 125, Okd. Joe A Hyman to J Henry Eoehrer and Alfred Legault .....Jan. 19, 1916

Jan. 20, 1916—OAKS BLVD 300 N Maple Court, San Leandro. J B Peppin to whom it may concern .....Jan. 3, 1916

LIENS FILED

ALAMEDA COUNTY.

Jan. 15, 1916—PTN LOTS 23 AND 24 Blk 41 Map San Antonio, Okd. Eureka Mill & Lumber Co vs Ella Furgerson, John Doe Rogers and Thomas Brown $49.47

Jan. 17, 1916—PTN LOTS 23 AND 24 Blk 41, Freman's Sbdvn Map San Antonio, being No. 1748 18th Ave., Okd. Tom Brown vs Ella Furgerson and L Rodgers.....$65

Jan. 19, 1916—LOT 138 Map Fruitvale Add'n Tract, Okd. Hammond Lumber Co vs J M Ermerins..$53.55

Jan. 20, 1916—LOT 9 BLK "B" Map Oakland Highlands, Okd. Perry C Fry vs A B and Augusta E Chase.. .....$57.95

RELEASE OF LIENS.

ALAMEDA COUNTY.

Jan. 15, 1916—LOT 10 BLK 6 Map Mathews Tct, Bkly. Sunset Lumber Co to Carl Eriesson et al..$34.09

Jan. 18, 1916—SW ALEXANDER Court and 35th Ave, being Lot 14 Redwood Glen Tract, Okd. F M Dreisbach to Nannie A Brown et al $600.02

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME SCHOOL
MILPITAS SCHOOL GROUNDS, Milpitas. All work for four-room frame school building.
Owner.....Milpitas School District, Milpitas.
Architect ...F. D. Wolfe, 1st National Bank Bldg., San Jose.
Contractor..E. L. Wolfe, 1012 Bird Ave., San Jose.
Filed Jan. 12, '16. Dated Jan. 10, '16.
1st floor joists in place.....$2477.25
Roof on 2477.25
Plastered interior & exterior. 2477.25
When completed 2477.25
Usual 35 days..... 3303.00
TOTAL COST, $13,212.00
Bond, $6606. Sureties, J. B. Wolfe and Frank Cox. Limit, 120 days. Forfeit, $5 per day. Plans and specifications filed.

FRAME BUILDING
COR. SANTA TERESA & PLEASANT, San Jose. All work for two-story frame building.
Owner.....Fred and Phillip Jung, 138 W-San Fernando, San Jose.
Designer ...F. G. Aitken, Theatre Bldg., San Jose.
Contractor..W. R. Latta, 432 N-11th, San Jose.
Filed Jan. 13, '16. Dated Jan. 12, '16.
Brown plastered inside..... 25%
1st plaster on outside..... 25%
Building completed 25%
Usual 35 days..... 25%
TOTAL COST, $1765
Bond, $884. Sureties, J. A. and L. H. Chase. Limit, 40 days. Forfeit, none. Plans and specifications filed.

SE ST. JOHN AND MARKET STS., San Jose. Two-story brick and reinforced concrete store room.
Owner.....G. Wendt & Sons, 216 S-1st St., San Jose.
Architect ...L. T. Lenzen, 110 S-Second St., San Jose.
Contractor..R. O. Summers, 17 N-1st St., San Jose.
Filed Jan. 10, '16. Dated Jan 4, '16.
On 15th of each month as work progresses 75%
Usual 35 days.....$1546
TOTAL COST, $6184
Bond, $3092. Surety, Hartford Accident & Indemnity Co. Limit, 90 days. Forfeit, none. Plans and specifications filed

PLUMBING & SHEET METAL WORK on above.
Contractor..Wm. Ehlert, 287 N-1st St., San Jose.
Filed Jan. 10, '16. Dated Jan. 4, '16.
As work progresses..... 75%
Usual 35 days.....$243.50
TOTAL COST, $974.00
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED

Jan. 17, 1916—SAN RAFAEL, Marin Co. Florence H Obermuller to

hom it may concern..Jan. 15, 1916
. 18, 1916—SAN RAFAEL, Marin
o. Dr C B Marston to J A Kappen-
ann.....Jan. 10, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

ORE
TS 8, 9 BLK 53, Fresno. Store.
ner.....J. A. Starkel, 711 G St., Fresno.
hitect ...None.
ntractor..Chris Lehman, 824 Ventura St., Fresno.
COST, $2000

ATING, ETC.
½ OF S ½ LOT 9 Kingsburg Col., Fresno. Heating and ventilating plant for school building.
ner.. ...Kingsburg Joint Union High School District.
chitect ...None.
ntractor..John Ringuis.
ed Jan. 15, '16. Dated Dec. 22, '15. On 1st and 15th of each month 75% usual 35 days.....Balance
TOTAL COST, $3150
nd, $2625. Surety, Massachusetts nding & Insurance Co. Limit, Aug. 1916. Forfeit, $10 per day. Plans d specifications filed.

COMPLETION NOTICES

FRESNO COUNTY.

ECORDED ACCEPTED
n. 14, 1916—LOTS 27, 28 AND 29 Blk 72, Fresno. Adolph Kutner Co and Alfred Kutner to whom it may concern.....Jan. 11, 1916

OTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

n. 14, 1916—LOT 27 BLK 72, Fresno. Adolph Kutner Co and Alfred Kutner as to improvements on leased property .....

NOTICE OF NON-LIABILITY.

FRESNO COUNTY.

an. 18, 1916—IMPERIAL COPPER Mine (labor), Fresno. Estate W H McKenzie et al as to improvements on leased property.....

LIENS FILED

FRESNO COUNTY.

ECORDED AMONNT
an. 18, 1916—LOTS 8, 9 BLK 70, Fresno. C A Ross vs Mrs L Jones, G C Roeding and C H Reige....$275

BUILDING CONTRACTS

SACRAMENTO COUNTY.

FRAME DWELLING
W 20 FEET LOT 6847 and E 20 feet Lot 6848, Hill Crest Park, Sacramento. One-story 4-room and bath frame dwelling with concrete foundation.
Owner.....G. P. Kayser.
Architect ...None.
Contractor..E. L. Brust, 1631 Ohio Ave. Sacramento.
COST, $1200

FRAME DWELLING
W 45 FEET OF E 65 feet Lot 681, Hill Crest Park, Sacramento. One-story four-room and bath frame dwelling with concrete foundation.
Owner.....G. P. Kayser.
Architect ...None.
Contractor..E. L. Brust, 1631 Ohio Ave. Sacramento.
COST, $1200

WAGON SHED
UPPER STOCKTON ROAD, 1-85 acres and 2,26 acres, Thomas Oats, Sacramento. Wagon shed and storage bldg
Owner.....McGilvray Constr. Co., 303 Nicholaus St., Sacramento.
Architect ...None.
Day's work. COST, $3000

DWELLING
FAIR OAKS AND TWENTY-SECOND Ave on Lot 136, Curtis Oaks, Sacramento. One-story Denison tile four-room and bath dwelling with concrete foundation.
Owner.....C. S. Ingram, 3104 Madrone St., Sacramento.
Architect ...None.
Contractor..Robert Powell & Sons, 2811 T St., Sacramento.
COST, $1750

REPAIRS
NO. 421 TWENTY-EIGHTH ST., on S ½ of N ½ Lot 8 E 28th and 29th Sts., Sacramento. Make general repairs and place on concrete foundation to dwelling to be moved from No. 1731 F Street.
Owner.....C. C. Goldsmith, 1916 26th St., Sacramento.
Architect ...None.
Contractor..Andrew Johnson.
COST, $700

ADDITION
W ½ LOT 6, N, O, 5th and 6th Sts., Sacramento. One-story frame addition of 2 rooms to dwelling.
Owner.....Geo. Cerriconi, 519 O St., Sacramento.
Architect ...None.
Contractor..Dan Tatti, 2116 O St., Sacramento. COST, $300

NEW FOUNDATION
NO. 1700 W ST., on Lot 6197 Blk W, X, 17th and 18th, Mission Treco, Sacramento. Place building moved from No. 510 18th St. on new foundation.
Owner.....A. Greenwald, 314 K St., Sacramento.
Architect ...None.
Contractor. Charles A. Vanina, 2022 M St., Sacramento.
COST, $1200

ALTERATIONS
NO. 1726 W ST., on W ½ of N ½ Lot 4, W, X, 17th and 18th Sts., Sacramento. Move one-story frame dwelling and place on new concrete foundations and general repairs from 515 17th St.
Owner.....Manuel Jacinto, 330 V St., Sacramento.
Architect ...None.
Day's work. COST, $900

ALTERATIONS
NO. 1726 W ST., on E ½ of N ½ Lot 4, W, X, 17th and 18th Sts., Sacramento. Move one story frame dwelling and place on new concrete foundations and make general repairs from 515 17th street.
Owner.....Manuel Jacinto, 330 V St., Sacramento.
Architect ...None.
Day's work. COST, $900

ALTERATIONS
NO. 1023 J ST., on W 50 feet Lot 6, I, J, 10th and 11th Sts., Sacramento. Remodel two-story brick store and office
Owner.....Skelton Imp. Co., Premises.
Architect ...None.
Contractor..G. Edw. Hook, 718 18th St., Sacramento.
COST, $1000

FIRE ESCAPES
G ST., bet 8th and 9th Sts. on Lots 1, 2, 3, 4, 5, 6, 7, 8, F, G, 8th and 9th Sts., Sacramento. Place fire escapes, etc., in three-story frame building.
Owner.....St. Joseph Academy, Prem.
Architect ...None.
Contractor. M. F. McKenzie, 1126 T St., Sacramento.
COST, $600

ALTERATIONS
NO. 1911 O ST., W 35 feet of E 55 feet Lot 7, N, O, 19th and 20th Sts., Sacramento. Remodel two-story frame dwelling.
Owner.....S. Mezzanares, Premises.
Architect ...None.
Contractor..W. M. Kennedy, 3330 Orange St., Sacramento.
COST, $2440

ALTERATIONS
NO. 1714 SIXTEENTH ST., on S ¼ Lot 4, Q, R, 15th and 16th Sts., Sacramento Raise dwelling about 2 feet and finish off ground floor and 2 flats of five-rooms and bath.
Owner.....Henry Finnigan, Premises.
Architect ...None.
Day's work. COST, $1500

ADDITION
NO. 1115 G ST., on W ½ Lot 6, and Lot 7, F, G, 11th and 12th Sts., Sacramento One-story Denison Tile addition to stable and repair garage.
Owner.....Peerless Ice Cream Co., 921 K St., Sacramento.
Architect ...None.
Contractor..W. T. Murcell, Ochsner Bldg., Sacramento.
COST, $1100

ALTERATIONS
NO. 817 U ST., rear, on W ½ Lot 6, T, U, 8th and 9th Sts., Sacramento. Remodel building and make four-room and bath.
Owner.....T. E. Clark, Premises.
Architect ...None.
Day's work. COST, $500

STORAGE SHED
UPPER STOCKTON ROAD, 4.9 acres, Sacramento. One-story frame galvanized iron storage shed.
Owner... . Standard Oil Co., Premises.
Architect...None.
Contractor..W. T. Murcell, Ochsner Bldg., Sacramento.
COST, $400

ALTERATIONS

No. 400 K ST., on Lots 1 and 2, K. L. 4th and 5th Sts., Sacramento. Remodel Lavatory and place doors and other repairs in brick department store.

Owner.....Weinstock-Lubin Co., Prem

Architect...None.

Contractor..James Seadler, Forum Bldg Sacramento.

COST, $300

NOTICE OF NON-RESPONSIBILITY.

SACRAMENTO COUNTY.

Jan. 1, 1916—LOTS 8, 15, 20, 36, 48, Dye Chinatown, Walnut Grove. Corodon, Sperry W, Milo E, Dye and Amy Brown as to improvements on leased property .....

COMPLETION NOTICES

SACRAMENTO COUNTY.

[illegible] ACCEPTED

Jan. 14, 1916—[illegible] K E. 5th and 6th Sts., Sacramento. Galt School District, George [illegible], Bert Wright and T. Sh[illegible], Tr[illegible] of City to whom [illegible] concern. .....Jan. 12, 1916

Builders Exchange Holds Meeting.

Goes on Record as Against Preserving Fine Arts Building.

Two weeks ago the Builders' Exchange of San Francisco appointed a committee to investigate and report on the advisability of preserving the Fine Arts Building. This committee presented their report yesterday, which was adopted by an almost unanimous vote. This report is as follows:

Report of The Committee on The Preservation of The Fine Arts Building Panama-Pacific International Exposition, Appointed by The Builders' Exchange January 5, 1916.

Gentlemen:—

Your Committee appointed at the special meeting of January 5, 1916, for the purpose of looking into the practicability of saving and preserving the Fine Arts Building at the Panama-Pacific International Exposition, desire to report as follows:

After careful deliberation we are convinced that any attempt to preserve this building would incur a prohibitive expense and would not give the pleasure and satisfaction looked for, when the surroundings are changed.

While it is true that the Main Building has a pile foundation, a steel frame and interior metal lath and cement plaster, the surface or exterior coating, as well as all columns, cornices and enrichments, are of plaster of Paris or similar material, which material will not stand exposure to the weather for more than two or three seasons without disintegration, so much for the main surface of the exterior and interior.

With regard to the colonnade, the framing of this structure is of Oregon pine, which material, while plenty strong and lasting if kept dry, would only be good for three of four years, when it gets wet and is not ventilated it is bound to decay.

So far as the plastering, columns, etc., of this part of the building is concerned, the same finding of your committee apply as in the main building.

Now what of the building when the surroundings are changed?

While granting the grandure and completeness of the design with its beauty of proportion and detail, still to a large majority of observers, a great part of the charm of the building is in the general surroundings.

Therefore: We find that since the Fine Arts Building can only be preserved, taking a most liberal view, for a few years and that for the most part in a very indifferent condition, We, your committe, think it unwise to advance any hopes that must end in disappointment or to advise the expenditure of any considerable fund that in our best judgment might be more advantageously used in building a more fitting and permanent memorial of our great Exposition.

In view of these facts, your committee, recommend against any attempt to preserve the present Fine Arts Building.

[SIGNED]

J. O. CONNOLLY.
W. W. HAYES.
C. W. WITHINGTON.
R. DEWAR.

Committee on Fine Arts Building Preservation, P. P. I. E.

WYOMING'S UNDEVELOPED RESOURCES.

Among the undeveloped resources of the State of Wyoming, the United States Geological Survey reports, are bituminous shale, volcanic ash, graphite, asphaltum, manganese ores, bentonite, tin, salt, bismuth, and, perhaps most important, phosphate rock, on which the future of American agriculture may largely depend. It is estimated that more than 1,250,000 acres in Wyoming are underlain by workable phosphate deposits, a phosphate area greater than that of any other State. Its coal fields cover about 41,500 square miles—two-fifths of the State's area—and contained originally as estimated 670,723,000,000 tons. Of this quantity only 178,000,000 tons, or about one-fortieth of 1 per cent, has been exhausted.

SATISFACTORY TRADE CONDITIONS IN NEW ZEALAND.

[Consul General Alfred A. Winslow, Auckland, Nov. 17.]

A review of the foreign trade of New Zealand for the year ended September 30, 1915, makes a remarkable showing, amounting to $247,172,294, of which $101,320,491 covered imports and $145,851,803 exports, showing a net balance in favor of this country of $44,531,312, against $9,643,522 for the same period in 1913-14. Prices are high, and the country is in splendid condition to supply the leading articles of export—fresh meat, wool, butter, and cheese—in great abundance.

Market for United States Products.

During the year ended September 30, 1915, imports from the United States amounted to $12,343,486, against $10,456,055 for the year previous. The New Zealand market is short in the following articles: Hardware, corrugated sheet iron, fencing wire, barbed wire, agricultural machinery, electric machinery, engines, gas, etc., tools, china and earthen ware, leather manufactures and motor vehicles.—Commerce Reports.

NEIGHBORHOOD PLAYGROUNDS.

Recreation Census by Playground and Recreation Association of America.

Nearly 1,000 New Playgrounds.

Four hundred and thirty-two American cities maintain neighborhood playgrounds under the direction of pla leaders during the year which ende November 1, 1915. During the last tw years 116 cities have established play grounds. The number of new play grounds secured is nearly 1,000 bring ing the total number of playgrounc now in operation up to 3,294. Whe the Playground and Recreation Asso ciation of America was organized le than ten years ago, only a few of th larger cities ever had summer play grounds, and many of these were sup ported by private funds. Now 1 cities employ 1,653 play leade throughout the year. Reports from 5 cities where the neighborhood play grounds are open throughout the yea showed 572 year-round playgrounds.

Last year the expenditures report in the cities of America were $4,060 377.15. In addition the Playground ar Recreation Association of Americ spent $82,505.79. In 19 cities, bor issues for recreation purposes we authorized, the bond issues authoriz in 17 of these amounting to $1,663,75 In 49 cities neighborhood playgroun have been donated to the city l private individuals, the value of th property in 18 of these cities is $497 100.

PUBLIC IMPROVEMENTS IN ECUADOR.

[Consul General Frederic W. Godin Guayaquil, Nov. 18.]

Many public works are in progre in Ecuador or are to be begun soo the necessary laws having alread been enacted by Congress. Among th projects already under way is th electric-light plant at Cuenca. Son years ago the municipality of Cuen was authorized to install the plant ar provision was made to finance th work. An American engineer w called as city electrician and placed charge of the installation, who dre up the plans and specifications. Th plant was purchased from the Gener Electric Co., of Schenectady, N. Y., ar is now being erected, to be in operati in 1916.

The Daule electric-light plant als by legislative decree, was declared municipal work, the funds for its co struction being a one one-thousand tax on all property located in the Ca ton exceeding $482 in value, one of cents on every 1,000 oranges export from Canton, and the ordinary mun cipal tax which later will be used f maintenance purposes. A loan authorized, to be guaranteed by th receipts mentioned.

To provide funds for the Tulc electric light and waterworks, lik wise a municipal project, Congress a lotted $1,446 from the general est mates, and imposed a tax of one on thousandth on the unimproved land the Province of Carchi and a simil one on the improved real estate in t city of Tulcan. It also vested the ci

th authority to make a loan guar-
teed by the taxes named. The elec-
c-light system is to be installed first,
d then the waterworks.

velopment of Waterways—Sanitary Works.

The Minister of Public Works has
en authorized to construct either by
ntract or governmentally, works to
event the overflow of the Jubones
ver, after the necessary technical
udies have been made. To finance the
oject a tax of 38.5 cents per 100
unds is imposed on the production of
cao in the Province of El Oro and
e of 29 cents on each 94.8 pounds ex-
rted from the Province. The Asso-
ation of Agriculturists will advance
e necessary funds and reimburse
self from the taxes collected, the
ancing of the proposition having
en placed with that organization.
his work is greatly needed to pre-
nt the disastrous inundations fre-
ently occurring in the vicinity,
hich cause much damage to crops.

To increase the depth of the Baba
iver, as well as that of other streams,
nd to complete other works of public
ility, the municipality of Baba has
een authorized to impose a tax of one
ne-thousandth on the unimproved
nd in the Canton and to negotiate a
oan for the sum required for the
orks, the loan to be guaranteed by
e proceeds of the above-mentioned
ax. This forms part of a general plan
esigned to increase the number of
avigable streams in the interior, a
w of which have been deepened to
commodate river craft.

A legislative decree recently pro-
ided for a waterworks and sewerage
ystem for the city of Cayambe by di-
erting to this project a tax of one
ne-thousandth formerly imposed for
he construction of certain roads. The
orks will be under the direction of
he Ministers of Public Works and of
he Treasury.—Commerce Reports.

NEW BUILDING CONSPICUOUS FEATURE IN BUENOS AIRES.

[Extract from La Prensa, Nov. 13, for-
warded by Commercial Attache Al-
bert Hale, Buenos Aires, Argentina.]

A new building is about to be opened
n Buenos Aires, and great interest is
aken in the vent. Situated on ground
ying between Calle Cangallo and Calle
Bartolome Mitre, and extending all the
way between Calle Florida and Calle
San Martin, it occupies practically the
center of the business area of Buenos
Aires. From its street fronts there is
nothing very remarkable about the
building, because it has the regular
eight of its neighbors, conforming thus
with the city ordinances. At its cen-
ter, however, a higher elevation is
reached, eight stories additional top-
ping the six stories permitted on the
street, so that it becomes almost a
skyscraper, especially since a fine
tower caps the building proper, the
elevation of the whole being, from
pavement to pinnacle, 250 feet.

The Pasaje General Guemes, as this
building is called, after one of the
famous heroes of Argentina, is re-
markable in other details. Below the
ground (in a basement) is a theatre
which, though small, is probably the
most modern in Buenos Aires. On the
top floor there is a luxurious restau-
rant, from the windows of which an
extensive view of the city of Buenos
Aires, the River Plate, and the sur-
rounding landscape is offered to the
guests.

Festivities to Mark Opening of New Structure.

The first floors above the street level
are devoted to offices, but above these
and below the restaurant are a few
floors in which there are to be apart-
ments for private residences or for
social organizations. Finally, on the
ground floor is the "pasaje" itself, the
wells of which are well decorated and
well lighted through the glass roof.
On this corridor there are numerous
shops and space for the display,
through large plate-glass windows, of
whatever may be offered for sale there.
Space has been reserved here for the
Press Club, called "Circulo de La
Prensa," which is becoming a per-
manent organization. It has grown
out of a small association, which up to
now has been devoted to business and
similar purposes, but which is to be-
come an important factor in the liter-
ary life of Buenos Aires. A commis-
sion of propaganda of this Circulo de
La Prensa has in charge the festivities
by which this new building will be
opened. It is planning various per-
formances in the theatre, several re-
ceptions, and a banquet in the restau-
rant, and musical features.—Commerce
Reports.

METHODS USED IN QUENCHING STEEL DISCUSSED.

[Consul Franklin D. Hale, Huddersfield,
England, Dec. 3.]

At a recent meeting of the Hudders-
field Engineering Society, Mr. Shipley
N. Brayshaw lectured on "The quench-
ing of steel." The local papers state
that the lecturer first of all discussed
the properties which determined the
value of any liquid as a quenching
medium, and pointed out that the main
items of consideration in this direction
were specific gravity, specific heat,
boiling point, conductivity, and fluidity,
and gave some interesting information
in connection with experiments which
he had carried out in the hardening of
tools in various ways, and by means of
various quenchers.

He described the effects of stirring
the quenching medium, and also the
use of jets for throwing a strong
stream against the articles to be cooled.
He referred to the use of brine and
freezing mixture of snow and salt. He
pointed out that the age of water had
a great deal to do with its quenching
powers, and instanced the carrying
away of water in barrels from the
River Don, in Sheffield, even as far as
the United States for this purpose,
owing to some peculiar property which
it possessed.

The uses of oil, mercury, fusible oils,
and fusible salts as quenching media
were next dealt with, and the lecturer
laid down as the ideal medium for
quenching, one which was from fluid at
100 degrees C., at a high boiling point
of practically 800 degrees C., fairly high
specific gravity, and of fairly good
specific heat. This would give a glass
like hardness to the tools, but the
[illegible]
a temperature [illegible]
prevent [illegible]

Military Training.

Desirability in Public Schools. Why? The California Law. Address to Parent-Teachers' Association by Senator Wm. S. Scott. Major Watson Supplements Remarks. Stimulates Mental, Physical and Moral Development.

Military training in Public Schools
was the interesting subject discussed
on last Monday afternoon at the regu-
lar meeting of the Parent Teachers'
Association of the Polytechnic High
School.

The president, Mrs. J. M. Hamm,
occupied the chair, and the meeting
was addressed by Senator Wm. S.
Scott, chairman of the State Senate
Committee on Military Affairs, and by
Major James Reed Watson, commander
of High School Cadets.

Explains Law.

At the request of the Parent Teach-
ers, Senator Scott explained the law of
the State of California, authorizing
High School Cadet organization, and
showed plainly that participation in
the cadet movement is purely volun-
tary on the part of boys. That the ca-
dets are at all times under the guid-
ance and control of the principal
whose duty it is, in conjunction with
the governing body of the school, to
formulate the regulations regarding
the moral, educational and physical
welfare of the cadets.

Physical Improvement.

Senator Scott stated that he consid-
ered the military activities of the ca-
dets as the very best method of phys-
ical exercise for boys; even better
than football, baseball, handball or
field sports. One reason for this is
that all can take part in military drill,
while only a limited number can hope
to take permanent part in the sports
mentioned. In addition, as a result of
military training, boys acquire an in-
valuable asset in case they are ever
needed to take part in the defense of
their country and their flag.

Service Chances.

The senator gave it as his opin-
ion, that the chances of the High
School Cadets being called to war are
very remote, and in case they are ever
called, it could be only when the mil-
lions of able bodied men are exhausted.
In such case, he asked mothers
would it not be far better for their
boys, if they had learned something of
how to care for and protect them-
selves, when they are asked to be-
come soldiers.

Mothers Pleased.

The mothers were pleased to learn
from the senator, that there are
twenty-five High School cadet com-
panies in the State, and that the
cadets stand high in their [illegible]
that their department is [illegible]

Major Watson.

Major Watson [illegible] the
School Cadet organization [illegible]
much credit to [illegible]
rudimentary one, the [illegible]
are being carried [illegible]

life of the students. It increases their business efficiency and economic value in whatever walk of life they may later be engaged.

Other Considerations.

"Then, too," he said, "the physical benefits to be derived from military training should be considered. To be a good rifle shot, one must have a steady hand and good nerve; the boys must eschew cigarette smoking and all forms of dissipation, which destroys a boy's chances to be a good rifle shot. That boys do this is shown by the excellent shooting record of the California Cadets. Last year the United States Government awarded a handsome bronze trophy for excellence in target practice, and during the same year, one of the cadet companies won more target practice decorations, for out-door practice, from the National Rifle Association of America, than any other cadet organization in the United States, including private military schools."

President's Remarks.

Mrs Hamill closed the very instructive meeting by thanking Senator Scott and Major Watson for their advice, and stated that from her careful observation, the High School Cadet movement was one that should be encouraged, as it is of great benefit to the boys.

She gave it as her opinion that "To be a good cadet, a boy must develop his endurance and perseverance; he must acquire habits of discipline, obedience, self-control, order and command, and he must study organization and administration." Finally, she asked: "Could a mother ask for a better son than one in whom these qualities were developed in the very highest degree?"

RIVER SURVEYS CARRIED ON IN WASHINGTON AND OREGON.

United States Geological Survey Makes Profile Surveys of Spokane River Basin, Washington, and John Day Basin, Oregon.

The United States Geological Survey has just issued, as Water Supply Paper 377, the results of river surveys made in Spokane River basin, Washington, and John Day River basin, Oregon, to determine the location of undeveloped water powers on the rivers. The ten profile sheets included in the report show the outlines of the river banks and other physical features to an elevation high enough to indicate the possibility of using the streams as sources of power.

Spokane River rises in western Idaho and, flowing west and northwest, discharges into Columbia River near Fort Spokane, Wash. Most of the lands along Spokane River are agricultural and the high lands flanking the canyon of the river are used extensively for raising wheat. The Spokane affords a large amount of power. The highest spillway dam in existence is erected on this river, about 24 miles northwest of the city of Spokane. Already 57,000 horsepower has been developed on the river and two additional plants are projected, at each of which 20,000 horsepower can be developed.

John Day River, Oregon, drains about 7,800 square miles northwest of the Blue Mountains. The headwater region of the stream is forested. Except wheat, which is grown on the rolling uplands by "dry farming," no important agricultural products can be raised without irrigation, of which there is very little, because the areas admitting of easy irrigation are confined to the immediate valleys of the streams. Storage facilities are ample for the several projects under which large areas of productive table-lands would be developed by storage reservoirs and highline canals.

A copy of the report may be obtained free on application to the Director of the Geological Survey, Washington, D. C.

TOWN PLANNING NOT NEW

There is ample evidence in ancient Indian literature of town planning, says Wealth of India. Banabhatta, the writer of Kadambari, in giving a description of Ujjaini says that there were all the amenities of a civilized life, such as water works, bridges, temples, hotels, pleasure grounds, hall of assembly, etc. Dr. Coomaraswamy says: "Town planning was no secular matter but, according to sacred traditions recorded in the ancient Shilpashastras, the proper place for each kind of building was strictly prescribed as well as the measurements of the actual buildings down to the smallest mouldings." The Edicts of Asoka repeatedly impress upon the public the utility of broad roads with mile-stones at regular intervals, shaded by long rows of trees, hospitals, good drinking water, rest houses, etc., all of which can only exist in a well-organized State. All the houses were generally built with small courtyards, which were important, both from the sanitary and the social points of view. There were small gardens inside these squares. The town was divided into so many parts according to the castes inhabiting it. There were recreations for which space were kept apart. The courtyards served as shafts for light and air as the city grew in population, and there were congestion. As a rule the streets in the Indian towns were long, narrow and sinuous, but there were also broad roads for elephant processions, which were such a great feature on festive occasions.—Garden Cities.

CIVIC EDUCATION THE GREATEST NEED.

At the third annual convention of the League of Texas Municipalities, held November 11 and 12, with the largest attendance of the League's history, the greatest common need of the cities, as expressed by the officials present, was the need of civic education of their citizens to support the improvements which the officials are ready and anxious to make.—Exchange.

LARGE PRODUCTION OF TITANIUM.

During 1915 the American Rutile Co. produced 250 tons of rutile (titanium dioxide) worth between $25,000 and $30,000, at its plant at Roseland, Va., the largest production to date. A considerable quantity of ilmenite (titanium iron oxide) was produced as a by-product. For a number of years this firm has been the sole producer of rutile in this country. Attempts have been made by others to develop deposits in Hanover and Goochland counties, Va., and near Magnet, Ark., but no commercial production has yet been made at these places.

Rutile and ilmenite are both used in the manufacture of ferrotitanium which is employed in making steel and cast iron. Both are used in making electrodes for arc lamps, but for some reason ilmenite from other sources than the above does not seem to give the same satisfaction. Rutile is the source of titanium for making cuprotitanium for use in brass and other copper-bearing alloys, and for making potassium titanium oxalate, used on dyeing leather and textiles. A little rutile is also used in ceramics.

EARLY COAL MINING IN OREGON.

Coal was first noted in the Coos Bay region, Oregon, about 60 years ago Prof. J. S. Newberry having reported in 1855 that the coal deposits of Coos Bay had begun to attract attention.

The first cargo was shipped from the Empire Basin, but the discovery of coal near the head of Coos Bay soon transferred the point of production to Newport, which remained the principal mine until within the last decade, since the Beaver Hill mine has been more successfully managed and become the chief producer. The first record of coal production is contained in the census report of 1880, when, 43,2 5 short tons were mined.

What is claimed to be the most wonderful clock in the world is to be seen in Petrograd. There are ninety-five faces to the colossal timepiece which indicates simultaneously the time of day at thirty different places, besides the movement of the earth around the sun, the phases of the moon, the signs of the zodiac and the dates according to the Gregorian, Greek, Muselman, and other calendars. The works took two years to put together after the clock had been sent in detached pieces from Switzerland to Russia.

ASTORIA LUMBER REPORTS.

ASTORIA, ORE.—According to the records in the Astoria Custom House 355 vessels loaded at the mills in the lower Columbia River district during the year 1915 and their aggregate cargoes amount to 223,426,797 feet of lumber. Twenty-one of those vessels carrying 22,658,947 feet of lumber went to foreign ports, while 334 vessels with cargoes of 200,767,950 feet of lumber were consigned to domestic points, principally California. In addition to these four rafts containing 24,000,000 feet of logs and piling were towed to California, making the total lumber shipments by water from the mills in this district 247,426,797 feet. In the same 12 months 265 vessels loaded 65,276,946 feet of lumber giving a grand total of 312,703,743 feet as the amount of lumber shipped from Columbia River in cargoes and rafts during the year just closed.

PRAISES CONCRETE HIGHWAY.

The worth of concrete pavement, as used in the State Highways, over water-bound macadam and oil macadam has been demonstrated this Winter wherever flood waters have swept over the highway system in California, according to a statement made recently by A. B. Fletcher, California Highway Engineer.

"Although several sections of the highway have been subjected to rather severe tests, they have withstood the strain with comparatively no damage," stated Fletcher. "This has demonstrated the superior worth of the style of highway we are building over roads that are constructed of water-bound macadam or oil macadam.

"The damage in the north has been comparatively small. We have not heard from the south, where the floods have done damage to other property."

GOOD TIMES FOR TUNGSTEN MINES

The production of tungsten ores in the United States during 1915 broke the record and was apparently equivalent to about 2,165 short tons of concentrates, carrying 60 per cent of tungsten trioxide (WO_3), and was valued at more than $2,000,000. These figures are based on preliminary returns to the United States Geological Survey. The largest previous output of tungsten ore was in 1910, when 1,821 tons was produced.

Conditions and prices in the tungsten market were unsettled and somewhat anomalous. Although the price in the later part of 1914 was $9 or more a unit, 60 per cent ore was sold in the early part of 1915 as low as $5.80 a unit, so that tungsten mining did not start very briskly. Early in the summer, however, floods of orders for munitions of war caused a great demand for high-speed steel, to be used in cutting shells, rifle barrels, etc.; an embargo was declared by the British Government on the export of tungsten ores from any part of the British possessions, and there was soon a country-wide scramble for tungsten ores. Probably no one foresaw the height to which the price of tungsten would rise, and some operators contracted for ores at prices which in ordinary years would be high, but which were soon exceeded by several hundred per cent. Tungsten metal was also contracted for at prices much below those afterward reached. In the fall the prices of tungsten reached unheard-of heights; $48 per unit was paid for numerous lots, $50 for some, and even higher prices were reported. The prices moved upward so rapidly and unexpectedly that strenuous tungsten prospecting did not follow at once, but early in the fall a large number of men were in the field looking for deposits.

The mining activities are described by Frank L. Hess in some detail. The output of the Boulder (Colorado) field was for various reasons not increased as had been hoped. Many properties had been worked by leasing, so that there was no development of ore bodies, for the ore had been removed as fast as it was exposed, and it is reported that in the Conger mine, whose shaft was sunk below the 800-foot level, ore development was disappointing. Sinking is said to have been continued. The output of the district was estimated by the Boulder County Metal Miners' Association as equivalent to 960 tons of 60 per cent concentrates.

In the Atalio (California) field there were great developments. The Atolia Mining Co. is reported to have employed more than 300 men, and many men worked the desert sands in the vicinity for float scheelite. P. J. Osdick discovered rich ore east of the Atolia Mining Co's. property and made large profits. On and near the Baltic claim a number of men worked the gravel of a shallow gulch for scheelite and the sands on the Sunshine and other claims are also reported to have been worked at a profit. Several gold mines also produced some scheelite. The Consolidated Gold Mines, in Randsburg, had found water at a depth of about 500 feet and this has been piped to the Atolia Mining Co.'s mill, about 5 miles distant. Formerly water was hauled on the railroad for a distance of about 50 miles. The company is reported to have erected a new mill to treat its tailings.

Several discoveries of tungsten ores were reported from Gilpin County, Colo., but the most extensive discoveries, as indicated by the number of outcrops, were made in White Pine County, Nev. Viens of scheelite were found at several places between Minerva district, 30 miles south of Osceola, and Cherry Creek, 50 miles north of the settlement. Some of the veins were formerly prospected for precious metals, but the scheelite was not recognized. The hubnerite mine and mill 12 miles south of Osceola were actively operated toward the close of the season, the mill at Camp Bonita, on the east side of the Snake River, was operated part of the year, and mills were erected or started by the St. Anthony Mines Co. at Toy (Browns), Humboldt County, by A. R. Shepard and associates in the Reagan district, and by the Doyle Mining Co. in Sacramento Pass, White Pine County. Some hubnerite was dry washed from desert sands at Round Mountain and Spanish Springs, Nev.

The dumps of gold mines at White Oaks, N. Mex., were worked over for hubnerite and yielded a considerable quantity of concentrates, and at Tip Top, Ariz., a mill was under construction to work the tailings and dumps of the old Tip Top silver mine for the wolframite they contained.

Mills were erected by the Primos Chemical Co. at Dragoon and by the National Tungsten Co. at Arivaca, Ariz., for treating the tungsten ores, and tungsten was produced at these places and at Camp Wood, Yucca, Oracle, and other points.

At Lead, S. Dak., the great Homestake gold mine produced wolframite from the claims west of the great open cut and the Wasp No. 2 mine, 2 miles south, produced a considerable quantity of ore. It is erecting a concentration plant. Only a little ore was produced in the southern Black Hills.

Small quantities of tungsten were produced in Idaho and at Silverton, Colo., and a few hundred pounds was saved from the old concentrates of the gold placers at Nome, Alaska.

The wolframite deposits on Tungsten Peak, near Cathedral Peak, in the northwest of Oroville, Wash., became the property of the Tungsten Mines Co. and the new owners produced some ferrotungsten in an electric furnace at Tacoma.

The price of tungsten as metal or ferrotungsten rose from $1 a pound in January to $8 a pound in December. In the same period tungsten steels in-

STATE CORPORATION DEPARTMENT

SACRAMENTO, CAL. J. D. Barnes & Company, which propose to construct a ship-building plant on the Oakland estuary at a cost of approximately $300,000, has been permitted by Commissioner Carnahan to sell shares of its capital stock for that purpose. The company proposes to purchase a site of 18 acres for $75,000 and to build ways capable of handling 4000-ton vessels. The permit provides that all money paid in shall be placed in escrow until $10,000, the amount required for first payment on the land, shall have been raised. The stock is to be sold at par, to net the company not less than $9

LOGWOOD DEALERS IN LATIN AMERICA.

Special Agent Garrard Harris writes from Habana, Cuba, that logwood, or "palo campeche," as it is called in Cuba, grows principally in the Santiago district, and that the persons most likely to be able to furnish supplies are Edward A. Whiting and Julian Cendoga, care Ward Line, both of Santiago de Cuba. He also has submitted a list of logwood dealers in Central America, copies of which may be obtained from the Bureau of Foreign and Domestic Commerce or its district offices by referring to File No. 812.

CONTRACT FOR RAILWAY BRIDGES AWARDED.

Consul General Edwin S. Cunningham, at Hankow, China, reports that the contract for the bridges of the Hankow-Ichang Railway (German section), of the Han-Yueh Chuan Railways, was awarded October 28, 1915, to the Yangtze Engineering Works (Ltd.), of Hankow, a Chinese firm, for $7,410 gold. Five tenders for supplying the bridges were opened on September 27th, one American firm being represented. Four more tenders were received later by mail.

MILLION INVOLVED IN TIMBER DEAL.

HOQUIAM, Wash.—The largest timber deal in this district in several years has just been closed, and involves the purchase of approximately 1,000,000,000 feet of timber. The consideration, which it is not officially announced, is said to be in the neighborhood of $1,000,000.

Three big logging companies—the Polson Logging Company of Hoquiam, the Coats-Feadney Logging Company—have jointly purchased the Eugene Frances and T. Lowe holdings north of this city, between the Hoquiam and Wishkah rivers. The holdings total about 2,000,000

TAMING THE RIVERS FOR USE.

(From the Annual Report Secretary of the Interior.)

No one can survey the physical condition of the United States without being impressed and almost overwhelmed with the magnitude of the work that must be done in keeping our rivers within bounds and putting them to use. It is the largest task that the Government must undertake sooner or later, and the sooner in my judgment the better. This matter came immediately and most practically to my attention on a trip made in the late spring to the lower valley of the Colorado River. On the Arizona side of this river the Government is reclaiming the desert. That lowland will grow almost anything, from dates to alfalfa. Its most helpful friend, and its unrelenting enemy, too, is the river itself, for without the river it would return to cactus and sage. Yet the river is so jealous of her freedom that she yearly attempts with violence, and by insidious methods as well, to reclaim for herself each foot of land that has by stealth been taken from her.

On the opposite side of the river, the California side, the river is held in by mountains, until it has reached the Mexican line. There, by a capricious turn, it deserts its old-accustomed channel and flows westward into what was once a lake, but is now little more than a morass, and so slowly finds its way to the Gulf of California. Immediately north of this westward bend in the river is the Imperial Valley, which has lately been used by several novelists to illustrate the heroic struggle of man with nature. For this valley was once a sea itself, and has indeed left a sort of rudimentary sea in a lake known as the Salton Sea. The fruitful soil of this valley, hundreds of feet deep, is the silt of the Colorado, the deposited wash of a thousand miles of mountain channel. Each June, when the snows of the Rockies melt, the Colorado, resenting the limitations which man has set up for it, presses with two strong shoulders against both sides of its prescribed banks, like Porthos under the slow caving of the earth. And as long as that flood comes the people on both sides must watch and work as the Hollanders have done.

There are two distinct and aggressive schools of thought on this matter of keeping the Colorado in its place. One is for sending the river willy-nilly down the old channel. The other is for letting the river live its own life, but keeping it off our preserves. One may be termed the absolutist theory and the other the democratic theory. Congress has thus far committed itself to the latter. And this year, when danger threatened, Congress joined in raising a fund to keep the river from forcing its way into the Imperial Valley, and this work was successfully executed under this department by the former Chief of Engineers of the United States Army, Gen. W. L. Marshall. No one, however, believes that the work is at an end or that we have done more than put a good patch upon it.

Now, far above this point of danger there are thousands of square miles of land that need but the water of the Colorado River to make them as fruitful as the lands of the San Joaquin or the Salt River Valley. We need to catch the water when it is young, soon after it has been born from the snows. There, in mountain valleys, it should be kept for a time and, as needed, led into the peaceful paths of usefulness. And on that problem the Reclamation Service is working. The difficulty is to find large reservoir areas.

This instance is cited to show how intimately the matter of flood control and of reclamation are bound together. The problem extends from sea to sea. When we come eastward, to the Missouri and the Mississippi for example, we find that in their upper reaches the lands need the waters, while in their lower reaches the lands must be saved from the waters.

No one can take the yearly toll of lives lost and of property destroyed by the furious and unrestrained sweep of our rivers without realizing that the people of this country can not regard themselves as owning this land, really possessing it, until they have brought these waters under subjection. And in doing this they will literally create new land by the millions of acres, lands that will support millions of people as against the thousands which live upon it today. And in saying this I am not speaking without authority, for a year ago we enjoyed the value of a visit from the renowned builder of the Assuan Dam, Sir William Willcocks, who has spent his life in India, Mestopotamia, and Egypt as a river tamer. And after he had seen our problem he sighed with regret that it might not be his fortune to see the day, that he said would surely come, when the valley of the Mississippi would be another valley of the Nile, only greater in area and more perfectly adapted to the white man's life.

How these great works can be carried on calls for constructive thought, not merely on the engineering side but more immediately upon the financial side as to those ways and means by which the lands reclaimed shall be made to bear in some degree the burden of the expense. As to the funds which will be needed, they mount into such figures as to be staggering. And I can see no hope that this work will be adequately undertaken without the Government advancing its credit and investing directly some of its own funds. We are conducting this Government from day to day out of current revenues. Only the richest of people could pursue such a policy. No private enterprise attempts it. No railroad system has been built that way. But few of the States now construct their highway systems out of the year's revenues. The permanent improvements which the whole people undertake are a legitimate charge against capital account, not against maintenance. A commission to devise the ways and means by which the States and private land owners and the National Government can co-operate in paying for the work done seems to me a more needed body than one which will report upon engineering methods.

DAILY ATTENDANCE CITY PLAYGROUNDS MORE THAN 800,000.

The average daily attendance on the summer playgrounds in 389 cities reporting was 814,108. Ninety cities reported an average daily attendance at winter centers of 200,478.

The Playground and Recreation Association of America corresponded with more than 600 cities and towns which have not yet secured a single playground. In addition to the 432 cities which have playgrounds, there are 338 cities which do not have playgrounds and play leaders which report some progress, such as land secured, an appropriation made, or plans laid, so that 770 cities were active in one way or another in the play movement last year. Reports were received from 1,387 of the 1,750 cities from whom information was sought.

Within less than six years the national association has been in correspondence with about 22,500 different persons in the cities of America, and last year trained field secretaries from the Association worked in 61 cities. Among the leaders in the Playground and Recreation Association of America are: Joseph Lee, Boston; Henry P. Davison, New York; Robert Garrett, Baltimore; Gustavus T. Kirby, New York. The main office is 1 Madison Avenue, New York. There are branch offices in Chicago and Birmingham.

COLLEGE OF HAWAII EXPERIMENTS IN ROAD BUILDING.

The College of Hawaii located in Honolulu, which is partly supported by the Territory of Hawaii, and by appropriations by Congress authorized by the Department of Agriculture, has begun the construction of a road leading to the college as an experiment in road making. The roadway will test three types of pavement. First there will be a 450 strip in concrete, half plain and half reinforced; then 550 feet of coral pavement will be laid; followed by 555 feet of asphalt macadam, using different kinds of sealing coats. The curbing will be concrete and asphalt.

It is believed that the results of this experiment will be of great value to the county government of the Hawaiian Island in the future construction of public highways.

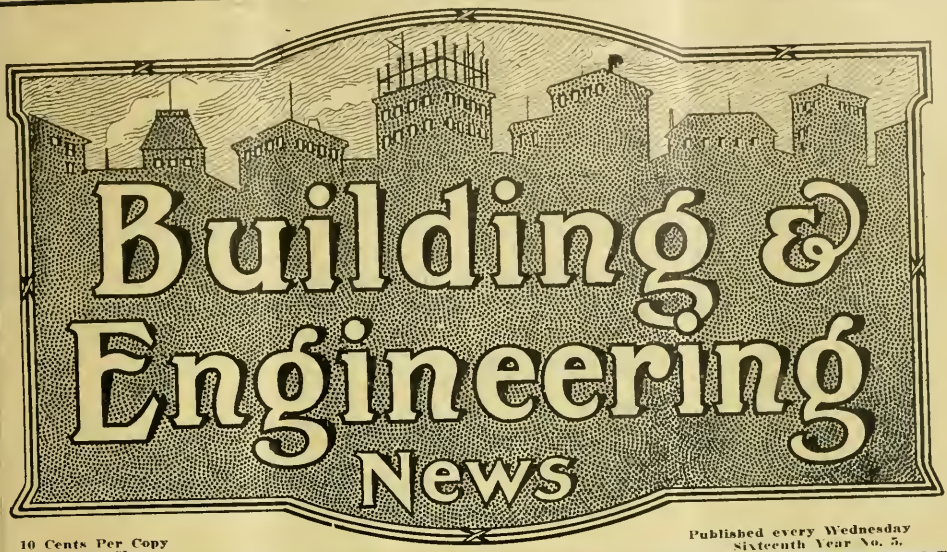
CORPORATION TAXES FOR THE PAST YEAR.

The total collection from the corporation franchise tax, the State's largest source of revenue, last year, from June 30, 1914, to June 30, 1915, was $13,516,046.50, according to figures announced by State Controller John S. Chambers.

In 1914, for the year, June 30, 1913, to June 30, 1914, the total collected by the State reached $12,963,660.10.

The collections for the period ending June 30, 1916, will be more than $15,000,000.

Railroads and street railways are the largest taxpayers to the State, the total having been $6,299,879.64. Payments made by other corporations were as follows: Gas and electric companies, $1,901,713.44; telephone and telegraph companies, $708,298.35; express companies, $107,755.74; car companies, $126,614.16; insurance companies, $813,495.78; national banks, $945,915.76; state and savings banks, $880,142.81; oil companies, $130,515; water companies, $92,302.50; building and loan companies, $14,011; mercantile and other concerns, $1,100,750.



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VACUUM STREET SWEEPING.

The Los Angeles Board of Public Works has estimated that there will be a saving of only $11,328 by using vacuum street sweepers as against the present method of flushing used in daily street cleaning. The efficiency bureau had estimated the saving at from $60,000 to $70,000 a year. The city engineer's department has reported its conclusion that vacuum sweepers will not cleanse the streets effectually, especially after rains, but recommends vacuum sweeping in the residence districts where traffic is not heavy, supplemented by flushing at regular intervals. The engineer's department does not believe the saving resulting from using vacuum sweepers would adequately offset throwing out of employment the fifty-three teams and drivers now employed on the flushing force.

YEAR OF STREET ACCIDENTS IN NEW YORK TOTALS 23,983.

NEW YORK.—There were 23,983 street accidents in the city of New York in 1915, in which 659 were killed and 3,921 injured, according to a statistical report by the police issued today.

Forty-four per cent of these killed were by motor vehicles.

STORM DAMAGE IN SOUTH.

SAN BERNARDINO, CAL.—Showing a total damage of $104,000 to San Bernardino County roads and bridges is the toll of the unprecedented floods which wrought damage and destruction to the Southland, official report of all loss was filed with the Board of Supervisors a few days ago by County Highway Commissioner L. R. Lothrop.

The report shows the first highway district to have suffered the worst damage, totaling in the sections of Yucaipa, Mill Creek, Santa Ana canyon and in the Del Rosa and the Desert company an even $50,000.

Damage to bridges and highways in and around Colton, Bloomington and the East Chino district totaled $25,000, while Highland and Redlands sections ran a close third with $17,000 as their total due to the washout of the big bridges in that locality.

CONCRETE ROADS.

Investigations by the Department of Agriculture have shown a wonderful increase in the popularity of roads with heavy concrete base. Such roads are expensive to build, but are proving, especially in sections like California, almost everlasting. The best investment California has made has been her good roads. There have been some mistakes; there have been disappointments because of the inability to cover all sections, but there have been enough benefits secured from the good roads to amply compensate for all they have cost.

HOW THE WASATCH MOUNTAINS WERE MADE.

In the Overland Route Guidebook recently published by the United States Geological Survey the history of the formation of the Wasatch Mountain Range, which overlooks Salt Lake City, is graphically told. Long before there were any mountains in this region most of the rocks in the Wasatch Range were laid down as sand and mud on the bottom of the ancient sea, where they became compacted and hardened into sandstone, shale, and limestone. The sea bottom eventually became land. As mother earth has aged her skin has cracked and wrinkled. In the Utah-Nevada region many long cracks were formed and the rocks on one side or the other were moved slowly upward or downward, forming long ridges along the cracks, steep on one side and gently sloping on the other. Such breaks in the earth's crust are called faults. A fault may be a few feet or hundreds of mile long, and the distance which the rock beds on one side slip past those on the other may range from a fraction of an inch to thousands of feet. When the rocks on one side are shoved up over those on the other side, the break is called a reverse or overthrust fault.—(Overland Guidebook, Bulletin 612, U. S. G. S.)

ANIMALS AND PLANTS WHICH LIVE IN BRINES AND RAW SALT.

Just west of Promontory Point station, Utah, is a pond cut off from the Great Salt Lake by the railroad embankment. At times of high water in the lake this reservoir fills by percolation through the embankment, but during the summer this water is concentrated to a brine by evaporation. The deep pink color of the brine is a phenomenon that appears in salt ponds generally when a certain concentration is reached. In the salt ponds of San Francisco Bay this color is due to a certain bacillus which lives in saturated brines and also in the heaps of salt as it is piled for drainage and shipment. Prohibitive to life as such an environment might be considered, strong natural brines are, in fact, inhabited by a number of minute organisms—animals as well as plants. The pink color disappears in winter or when fresh water is introduced into the pond. The Southern Pacific Co. has done some experimental work on preserving piles and railroad ties by soaking them in the pond. (Overland Guidebook, Bulletin, U. S. Geological Survey.)

GOOD ROADS MEASURE PASSED BY THE HOUSE.

WASHINGTON, January 25.—The Shackleford good roads bill, carrying an appropriation of $25,000,000 to aid the states in improving their post roads, was issued by the house late today, 281 to 81. Three members voted "present."

The states would share in the appropriation on the basis of their population and the number of their post roads. The money would be distributed through the various state highway commissions.

BUILD $1,000,000 ALCOHOL PLANT.

BALTIMORE, Mr.—The United States Alcohol Company is building a $1,000,000 plant at Curtis bay, to be operated principally to fill a $25,000,000 order for alcohol products for France.

The distillery recently closed a contract for 120,000,000 pounds of alcohol product. The preparation it is said, is used in the firing of large French artillery pieces.

EIGHT MILES OF HIGHWAY LATERAL READY IN KINGS.

HANFORD—Eight miles of the State Highway lateral between this city and Visalia are now completed and seven miles have been opened for traffic. Only one more mile of this unit remains to be laid and the work on that section will be completed within the next two weeks.

The contractor in charge reports that the recent heavy rains did no damage either to the highway or to the bridges along its route.

PITTSBURG WATER HEATER COMPANY WINS IMPORTANT LITIGATION.

The Pittsburg Water Heater Company of California are in receipt of the following telegram from the Pittsburg Water Heater Company of Pittsburg, advising them of the conclusion of litigation which is of the greatest importance to the gas water heating business:

"United States Court of Appeals sustains Circuit Court decision against Beler Water Heater Company, upholding our second single valve patent. This brings to successful termination all patent litigation giving our company absolute and exclusive control for the next fourteen years over the positive dual control single thermo valve mechanism."

[SIGNED] R. C. FRAMPTON.

CABLES UNDER THE SEA.

They Vary in Weight and Type and Use Very Little Current.

Each submarine telegraph company has in service a fleet of cable ships, the units of which are stationed at different ports for quick access to the different sections of the cable.

Let us take, for example, the cable stretching from San Francisco to Manila, a distance of 10,610 miles. This cable is divided into four sections—San Francisco to Honolulu, Honolulu to Midway Island, Midway island to Guam and Guam to Manila. The cable lies on the bed of the Pacific, which in places runs from three to five miles in depth, the latter depth being found off the island of Guam. Sufficient slack must be paid out in laying a submarine cable to allow every part to rest on the bottom of the ocean, however irregular the bottom may be.

A cable varies in thickness and type, according to its position and the nature of the ocean bottom in the locality where it is laid. The "shore end" of a cable, meaning a section laid close to land, is always thicker than a section out at sea. Ordinarily the diameter of a shore section runs about two and a quarter inches, while a section laid in deep water runs about seven-eighths of an inch in diameter.

About seven strands of copper, comprising a single conductor, form the core of the cable. Over this core are laid coatings of gutta percha, a layer of jute or oakum and an envelope of composition rubber. Over this strands of strengthening wires are wound on, and tarry rope and tape are wound about the whole. The average cost of a cable complete is about $1,000 a mile.

A surprisingly small amount of current is required for operating a submarine cable. One of the hardest worked of the Atlantic cables requires only fifty volts pressure at the sending end, and all that comes out at the receiving end is twenty-millionths of an ampere. Signals are transmitted simply by alternately charging and discharging the cable, which works much like a Leyden jar. One of the fastest of submarine cables transmits about eighty words a minute.—Cleveland Plain Dealer

WIDER ROADS FOR ARIZONA.

The Arizona State engineer, Lamar Cobb, has announced that hereafter he will construct no roads narrower than eighteen feet. The minimum has been sixteen feet up to this time, but some of the very best highways, built with State funds have been criticized on the ground that they were too narrow. Engineer Cobb believes that the slightly greater cost of a wider road will be more than offset by increased satisfaction on the part of the traveling public.

OUR PAVEMENTS.

They paved our street with yellow brick
That showed no pit nor sear,
And buttered it two inches thick
With shiny stuff, like tar.
And when we boasted that we had
The smoothest street in town,
Came men to tear it up like mad,
And put a sewer down.

They filled the furrow up again,
But in a day or two
Arrived a host of brawny men
To put a gas main through.
Once more the pavement was restored,
And then the time was ripe
That its fair surface should be bored
To plant a water pipe.

The pavement that we have today
Is creased from side to side,
Like some rough bas-relief in clay
Of a Culebra slide
You'd think they'd put the trenches through,
Then lay the pavement down,
But that is not the way they do
In this or any town.

—New York American.

COST OF BUILDING 15 YEARS AGO AND NOW.

Building is not what it used to be. That's the conclusion a lot of persons have arrived at who figures on erecting a home for the money that their fathers did. "Why, I could have built the house you want $2,000 for, for about $1,100 fifteen years ago," a man remarked to a real estate dealer recently. And then the real estater differed and gave his reasons. Nowadays the average person wants to build a home, with modern conveniences, for the price he might have paid once upon a time. But he forgets that—a furnace will cost $125, where the coal stove cost but $30; that a lighting system, wiring and fixtures, costs about $90, where the oil lamps once cost about $5; that plumbing, bath and lavatory equipment, which takes the place of the old tub and the basin, costs about $275; that a hot water system costs $40; that modern basement with a laundry costs $125 and that hardwood floors, which obviate carpets, cost about $100. Figuring it all up it is necessary to spend from $700 to $1,000 more in order to replace the features of father's home with the features of a modern, up-to-date residence which may be rented or sold or lived in with comfort. The real estater made the prospective builder change his mind.—Michigan Builder and Contractor.

Mark Twain says: "When I was editing the **Virginia City Enterprise**, writing copy one day and mining the next, a superstitious subscriber once wrote and said he had found a spider in his paper. Was this good or bad luck? I replied to him in our "Answers to Correspondents" column as follows:

"Old Subscriber—The finding of a spider in your copy of the **Enterprise** was neither good luck nor bad. The spider was merely looking over our pages to find out what merchant was not advertising, so that it could spin its web across his door, and lead a free and undisturbed existance forever after."

WILL BUILD PALACE OF INDUSTRY IN LONDON.

LONDON—Ground has been broken here for a huge new permanent exposition building, to be known as the Palace of Industry.

The building, located at Willesden green—about six miles distant from the center of the city—will cover an area of 610,000 square feet, nearly four times an exhibition known as the "Industries of the Empire Fair," which is planned to be "the greatest trade exhibition ever organized." The fair will be under the co-operative auspices of all the principal trade organizations of the British empire, and over 3000 exhibitors, representing 70 distinct lines of business, have already applied for space. The frontage of the stalls will reach an aggregate 12 miles in length.

It is to be solely a display of British goods, no foreign exhibits whatever being allowed.

Granite Manufacturers Hold Banquet.

The Granite Manufacturers' Association of California held a banquet at the Flor D'Italia Restaurant Thursday night; some fifty members sat down to this repast.

The toastmaster for the evening was Mr. E. H. Morris, who was most successful in making witty and happy introductions to the various speakers.

The guests and members were addressed by the following speakers:

Mr. J. D. McGilvray, Jr., President of of the Association, spoke on the Past, Present and Future of the Granite Industry.

Mr. P. D. Mullaney spoke on the Past, Present and Future of the Monumental Business.

Mr. E. A. Weisenberger—The Benefits of Organization and Overhead Costs.

Mr. Geo. S. McCalum, on the Future Tendencies of Organization and the control of its members.

Mr. Luke M. Carroll—The Relationship between the Wholesaler and Retailer.

Among other speakers were Messrs. Brandon, Roth, De Tosi, Brignardella and Bocci.

A great deal of enthusiasm was shown by the members, and the evening was voted a great success.

The organization was shown to be growing larger and stronger every day.

At the close of the banquet the chairman announced that the next regular meeting of this association would be held on Wednesday, February 2nd, in the Builders' Exchange.

GOVERNMENT PUBLICATIONS FOR SALE.

Among the publications received in stock for sale by the Superintendent of Documents at Washington during the week ended January 15 are:

Commercial Hickories. Forest Service Bulletin 80.—Covers hickory supply, lumbering, the tree and its forms, range, yield, mechanical properties and uses. Price, paper, 15 cents.

Melting Points of Fire Bricks. Standards Bureau Technologic Paper 10.—Technical work on the subject. Price, paper, 5 cents.

The Function of Time in the Vitrification of Clays. Standards Bureau Technologic Paper 17.—Technical work on the subject. Price, paper, 5 cents.

SURVEY IS APPROVED.

Preliminary Work on Suisun Channel, Between Martinez and Antioch, Sanctioned.

WASHINGTON, D. C.—The War Department has approved the preliminary survey for improvements to the Suisun Channel, between Martinez and Antioch.

The Sperry Flour Co., 332 Sansome street, has secured a lot at the northeast corner of Green and Sansome streets, 97½ by 120 feet, and will shortly start construction of a Class "C" garage building for the use of their machines. There will be concrete floor and walls with exterior faced with cement plaster.

ARCHITECT IS WAR VICTIM.

LOS ANGELES, CAL.—News of Fernand Parmentier's death at the Dardanelles came as a shock to his many friends in Southern California. Parmentier was secretary of California Chapter of the American Institution of Architecture. He designed many buildings in Los Angeles.

PRESIDENT WILSON TO ADDRESS NATIONAL CHAMBER.

WASHINGTON, D. C., Jan. 27.—President Wilson has accepted an invitation to address the Fourth Annual Meeting of the Chamber of Commerce of the United States which is to be held in Washington next month. This announcement was made by John H. Fahey, of Boston, president of the National Chamber, following a conference with the President at the White House. Mr. Fahey predicted the most successful gathering in the history of the organization.

Pointing out the fact that the Chamber of Commerce of the United States has grown in less than four years until it now has 700 affiliated organizations in every State in the Union, not to mention Alaska, the Philippines, Porto Rico and Hawaii, Mr. Fahey said the forthcoming meeting would be a common forum for business men to discuss the very biggest pending questions affecting our commerce. It is expected that delegates from foreign countries may be present, inasmuch as American Chambers of Commerce in Paris, Milan, Constantinople and Berlin are members of the organization. The two newest bodies are the American Chamber of Commerce for Brazil, the first from South America, and the American Chamber of Commerce of China in Shanghai.

It was said that commercial preparedness would be a subject to receive the same earnest attention from business men who are to assemble at the forthcoming convention that military preparedness is now receiving from the people at large. The sessions will begin on Tuesday, Feburary 8 and last through Thursday, February 10.

It is expected that President Wilson will speak at the banquet on Thursday. His exact subject has not been announced.

FREIGHT RATES FROM CHINA BECOME PROHIBITIVE.

[Consul General George E Anderson, Hongkong, Oct. 28.]

The present freight rates from China to the United States on Chinese produce generally are so high as to prevent shipments. For some weeks past the ocean-traffic situation in Hongkong, affecting American trade in general, has been very uncertain, as regards both the Pacific and the New York conferences.

The situation in the trans-Pacific trade hinges upon the supply of tonnage for the movement of goods anticipated during the next few months and for the regular transportation of passengers and mail. The New York conference trade has taken a peculiar turn, for the offerings of vessels for New York and Boston business by any route are scarcely one-third the usual number, and it is understood here that shipments for even this small number are so small as to make it difficult to fill the vessels actually sailing. Rates, however, are still maintained at a very high figure, in more or less agreement with rates obtaining in other parts of the world.

Freight rates from Hongkong to the east coast of the United States are now so high as to bring the cost of most Chinese commodities above the ordinary consumption point, and until they recede to a more reasonable range, a very large proportion of ordinary Chinese exports to the United States can not be moved.

Weekly Service, Hongkong to San Francisco, in Sight.

Shipping services across the Pacific are being rearranged with the intention of furnishing a mail and passenger service from Japan to San Francisco, with more or less effort to serve Hongkong and the Philippines, and a weekly service from Hongkong to San Francisco is now in sight. So far, however, little tonnage has been added to take the place of that taken from the Pacific by the transfer of the vessels of the Pacific Mail Steamship Co. and other American vessels to other parts of the world, and North Pacific services have been weakened to establish regular Hongkong - Honolulu - San Francisco sailings.

Under the suggestion of, and by arrangement with the Japanese Government, the Toyo Kisen Kaisha, the Japanese steamship line which has maintained the finest and fastest service between Hongkong and San Francisco, in connection with the Pacific Mail Steamship Co., has arranged for the use of two steamers of the Osaka Shosen Kaisha—the **Seattle Maru** and the **Manila Maru**—to maintain a weekly service similar to that maintained heretofore by the Toyo Kisen Kaisha and the Pacific Mail Co., adding a passenger vessel and the **Dairen Maru,** a freight vessel chartered temporarily. However, the transfer of these vessels from the Seattle to the San Francisco run merely changes tonnage from one part of the Pacific to another, and leaves the trans-Pacific freight situation in general yet to be improved.

Little Relief Secured for Tonnage Situation.

The announcement of the formation of the Chinese company and its purchase of the steamship **China** has aroused interest here, but it is realized that in this company, too, little relief so far has actually been secured for the tonnage situation. Unless new vessels, not now in service on the Pacific, can be had, the shortage of freight tonnage will be acute within the next three months.

The inauguration of the new service of the Dutch company from Java to the United States is the first actual addition to available tonnage across the Pacific, and it is likely to have an important bearing upon conditions in the course of the winter.—Commerce Reports.

A MECHANIC.

A genuine mechanic is a little more than a machine; he is a thinking, planning, ingenious man, who has mastered not only the use of tools, but the laws which govern the forces he commands. He is a student of the subtle laws of Nature, and learns from her how to add beauty to utility

Advantages of the Latest Disappearing Bed.

A great many people living in flats and houses, sleeping in a regular bed, look upon the wall or disappearing bed as an uncomfortable evil connected with apartment houses, which prejudices them against apartments. Another class of people who live in apartments get restless after a few months and move. It is hard to determine the reasons for this restlessness. Sometimes it is due to the fact that women like to rearrange their furniture, but cannot do so owing to the fact that the bed comes down at a fixed point and the rest of the furniture must be regulated accordingly.

Again, they may be sleeping in a draught, which possibly is only imaginary. The bed is fixed in one place, and to get out of this draught they have to rent another aparment.

Other people like to sleep close to the window and have the window open. The bed possibly is fixed at a point which is too far away to suit them. As soon as they find an apartment with the bed closer to the window they move.

When renting an apartment, if the prospective tenant objects to the location of the bed, the lessor has no way of overcoming this whim, unless he can show the prospective tenant that the other conveniences of the apartment overcome this.

Mr. S. B. Cooke and associates, in Portland, Oregon, realizing these facts, and wishing to make apartments more attractive to all classes of tenants, set about, a few years ago, to design a bed that could be made to overcome these various whims, and a bed that would tend to make apartments much more homelike and keep the tenants for longer periods.

They invented and patented the Universal Bed and tried it out in Portland to see how the public would take to it. They met with such great success that they have since opened up agencies all through the United States, and are meeting with universal success.

Illustration No. 1—Who would suspect that a disappearing bed was concealed behind this ordinary door?

As an instance of how the bed is liked, two years ago a certain owner, who builds a great many apartments in Portland, installed a small portion of Universal Beds and the greater portion of another make. A year ago he installed about forty Universal Beds and an equal number of other beds. This year he installed all Universal Beds, or sixty-five in number.

The Universal Bed is equipped with "De Luxe" coil springs manufactured by the Kinney-Rome ompany, of Chicago. These springs are extremely strong, can not wobble, and are tied with small helical springs instead of with stiff wires. These helicals permit individual action of the springs. They "give" only where the weight comes.

The Universal Bed will roll through a door 6 ft. 8 in. high by a minimum of 18 in. in width. If the door is 2 ft. 6 in. wide it will permit a person to pass in or out of the closet without disturbing the bed.

Illustration No. 1 shows an ordinary closet with a door 2 ft. 6 in. wide by 6 ft. 8 in. high, the same size door as the rest of the doors in the room. Who would suspect a disappearing bed was concealed behind this ordinary door?

Illustration No. 2 shows the bed in the closet, made up ready for use. There is ample space to pass in and

Illustration No. 2—There is ample space to pass in and out of the closet Without moving the bed.

Photographs in this article reproduced from actual installations in the Wheeldon Annex Hotel Apartments, Portland, Oregon.

out of the closet without moving the bed.

Illustration No. 3 shows the manner in which the bed is rolled out of the closet. All you have to do is to take hold of it, roll it out and roll it to the part of the room you wish to sleep in.

Illustration No. 3—The bed rolls easily to any spot in the room.

The bed rolls so easily and can be guided so perfectly that a child can operate it with very little effort.

Illustration No. 4 shows the bed down and ready for use. In this case it has been placed close to the window so that the sleeper may enjoy the fresh air.

You will readily see that owing to the fact that the bed is not attached to anything it affords the tenant an opportunity in case of illness or indisposition of any kind to place the bed down in any out-of-the-way place in the room and leave it down for any length of time without blocking the closet or doorways. It also permits a patient being wheeled about the room without disturbing him in the least.

It is the most sanitary of all beds. It is all iron, having no place for dust or vermin to lodge, and can be rolled to the window to be aired and receive the sunlight.

One bed will do for both room and sleeping porch, even if they are not adjoining. It can be placed on any part of the porch desired so as to escape draughts, early morning sun, etc. Or the bed may be placed between the room and sleeping porch and rolled out either way. Various sizes of closets may be used. A recess 20 in. deep by 4 ft. 10 in. wide with double or folding doors may be used, or a closet 20 in. wide by 1 ft. 6 in. deep will take the bed. These are the minimum sizes of the closets; these sizes may be enlarged as desired without affecting the operation of the bed.

The Universal Bed is an ideal bed for bungalows or hotels.

You can readily understand how much nicer it would be than either a regular bed or a fixed wall bed in the home.

In hotels the closets can be built in a number of rooms to each floor and say 50 per cent of them equipped with Universal Beds, and several extra beds kept in the storeroom. The guest can either use the beds as a disappearing bed or can leave the bed down in the room as a regular bed. The hotel keeper can change the bed from room to room at will, to suit the requirements of any particular occasion.

The Universal Bed is thoroughly covered in every way with patents. Not only is the principle of the rocker legs covered, but all the working parts.

H. E. Simpton & Company, 578 Monadnock Building, San Francisco, are the distributors of the Universal Bed for Northern California. Other branches are located in the principal cities of the Pacific Coast and in the East.

Mr. Simpton, manager of the San Francisco office, has installed a Universal Bed in the Monadnock Building for the purpose of showing its actual working qualities, together with a small-size closet, which plainly shows the amount of space this bed requires when not in use. It is a practical demonstration and architects are invited to call at the office of H. E. Simpton & Company in San Francisco or at other coast display rooms to inspect these beds.

As below noted, all photographs on this page are exact reproductions of this type of bed as installed in a Portland apartment house, all photographs presenting a view of the bed in actual operation.

Illustration No. 4—Bed placed close to window providing all advantages of the sleeping porch.

H. E. SIMPTON & CO., Monadnock Bldg., San Francisco

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base, reinforced concrete, $25,000. Architect, none. Owner, John Dempniak, 1664 Washington street, S. F. Location, east Hyde north of Sutter, covering an area of 25 by 92 feet. Will contain eight suites of three and four rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Automatic elevator, oil burning equipment. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000 to $40,000. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, I. Rosenberg. Location, southeast corner of Washington and Presidio avenue. Designed for residential apartments and will contain twelve suites of five rooms each. Interior finish pine and hardwood with some white enamel and hardwood floors. Steam heat, oil burning plant, hot water system and vacuum cleaning. Automatic elevator. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster on metal lath. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 6 story and base, steel and brick, $65,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Theo and Clara Ruffs. Location, northeast corner of Sutter and Jones streets. Will contain five stores and a total of 32 apartments of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat from city pant, automatic elevator and hot water system. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick and terra cotta. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartments and stores 3 story and base, frame, $12,000. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owner, Arthur Arlett, Newhall Bldg. Location, northeast corner of Folsom and 12th streets, covering an area of 43½ by 67½ feet. Will contain four stores and ten apartments of two and three rooms. Interior finish pine. Hot water system. Patent store fronts. Exterior covered with cement plaster on metal lath. Plans complete and work by Day Labor.

BURLINGAME, SAN MATEO CO., CAL.—Apartment house, 2 story and base, frame, $6,500. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, George Bebee, Burlingame. Will contain four modern apartments of four rooms and bath. Interior finish pine and elm panels. Some hardwood floors. Bath rooms composition floors. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken.

SEATTLE, WASH.—Apartment house, 4 story and base, brick and concrete, $50,000. Architect, W. W. Noyes, New York Block, Seattle. Owners, Sparkman & McLean. Location, Melrose avenue between Pike and Pine, covering an area of 53 by 108 feet. Will contain 23 suites of two rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and automatic elevator. Hot water system. Oil burning plant. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans being prepared.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owner, John F. Whalen. Location, southwest 41st and Manila. Will contain sixteen apartments of two and three rooms. Interior finish, pine. Wall beds and private baths. Steam heat and hot water system. Bath, composition floors. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house and stores, 2 story and base, frame, $10,000. Architect, W. M. Greuner, Thomson Bldg., Oakland. Owner, V. Z. Rutherford. Location, Linda and Piedmont. Will contain two stores and six modern apartments of two and three rooms. Interior finish, pine and redwood. Wall beds. Hot water supply. Bath rooms, tile. Patent store fronts. Exterior covered with cement plaster. Plans being prepared and the work to be done by Day Labor.

Contracts Awarded.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction. Cost not stated. Architect W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. The following contracts have been awarded for the construction of this building: R. De Luca, 2256 Jones St., grading and concrete; Mealy & Collins, 185 Stevenson, brick work; Sunset Iron Wks., 1124 Folsom, structural steel; James H. Pinkerton, 2266 Fulton St., plumbing; J. Marconi, 737 Green St., plastering; A. Huck, 59 Capp St., painting; Bartholme & Hartmanshenn, sheet metal work. Contracts for other parts of the work to be let at once.

BANKS

McFARLAND, KERN CO., CAL.—Bank, 1 story and base, reinforced concrete, $10,000. Architect, A. L. Rogers, Visalia. Owners, First National Bank of McFarland. Construction will be fireproof, covering an area of 35 by 75 feet. Besides the offices and public space, there will be safety deposit vaults and offices of the president. Interior finish, pine and hardwood. Tile floor. Exterior faced with cement plaster. Plans complete and figures being taken.

BONDS

WOLTERS SCHOOL DISTRICT, FRESNO CO., CAL.—Bonds of $12,000 of the Wolters School District have been sold to the N. W. Halsey Company. The proceeds of the sale will be used in rebuilding the school recently destroyed by fire.

HEMET, RIVERSIDE CO., CAL.—The election held to vote bonds for the paving of Florida avenue carried by a vote of 139 to 46. After the bonds have been sold bids for the improvement will be asked.

BAKER, ORE.—The City Commissioners have passed an ordinance providing for the re-advertisement of bids for the purchase of $75,000 in bonds, the proceeds of the sale to finance the construction of extensions of the city water line.

SEAL BEACH, CAL.—An election will be held here shortly to vote on the question of issuing and selling bonds for the acquisition of a water, sewer and street lighting system. The present water system, owned by the Bayside Land Company, will be taken over by the city, from present indications.

SANTA CLARA, SANTA CLARA CO., CAL.—The $45,000 issue of bonds, voted for paving sections of Santa Clara have been sold to the State at a premium of $2,000. Plans for the proposed paving are now being prepared in the office of the Town Engineer.

LINCOLN, PLACER CO., CAL.—The City Trustees have authorized City Attorney J. B. Landis to draw up a resolution calling a bond election for next April to vote $20,000 to construct one and one-half miles of concrete highway within the city limits. This strip will connect the State Highway on the north and south of town, and will be constructed on G and Fifth streets.

WALLA WALLA, WN.—Bonds of $200,000 were voted last week. The proceeds of the sale will be used in the construction of a high and grade school buildings. The issue provides $139,000 for the high school and $61,000 for the grade building.

OAKLAND, CAL.—Preparations have been made and a request has been forwarded to Congressman J. Arthur Elston, asking him to prepare a bill for presentation to the public buildings committee of the House for the erection of a new $1,000,000 postoffice building in Oakland.

SANTA MARIA, SANTA BARBARA CO., CAL.—February 25th is the date set for voting bonds for the purchase of the Domestic Water Company's plant which supplies water to Santa Maria. The property can be purchased for $72,500.

CALEXICO, IMPERIAL CO., CAL.—Sealed bids will be received by the Board of Directors of the Imperial Irrigation District for the purchase of bonds in the sum of $3,000,000. Procreek on Third St. and on South Arbe made throughout the district. C.

M. Berry is secretary of the Board of Directors.

RIVERSIDE, RIVERSIDE CO., CAL.—The Riverside Chamber of Commerce has gone on record as being for the calling of a bond election to raise funds for the completion of the road construction ETAOINUETAOINUNUNU from Corona to Elsinore, for the construction of the necessary bridges and for the construction of a concrete bridge at West Riverside to replace the present structure.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—The city officials have decided to ask a bond issue for the following bridges to repair the flood damage in the city: a bridge over Warm creek on Third street an on South Arrowhead avenue; one over Lytle creek on South Mt. Vernon avenue to replace the present obsolete structure; and one on South I street, where there has never been a bridge.

SACRAMENTO, CAL.—As there was no bidders, the sale of the $1,500,000 worth of State Highway bonds which was to be sold last week, and which is the last of the $18,000,000 bond issue voted in this State, the sale has been postponed until February 8th. The proceeds of the sale of these bonds will be used in the construction of small bridges and in completing small links of the State Highway.

PLACERVILLE, EL DORADO CO., CAL.—A contract has been let by the California Door Company of Diamond Springs for the immediate erection of a large box factory and planing mill in that town.

ANAHEIM, ORANGE CO., CAL.—A number of meetings have been held in Anaheim for forming a river protection district to control the Santa Ana river from Yorba to the Newbert district. It is proposed to take in $75,000 acres, and to vote bonds of $800,000.

PETALUMA, SONOMA CO., CAL.—With the intention of erecting a two story concrete home for the Sisters of St. Vincents Academy, a number of socials will be held in this city to raise funds for the erection of the building.

MONROVIA, LOS ANGELES CO., CAL.—The Chamber of Commerce directors have commenced a campaign for a municipal swimming pool with recreation grounds, and will present a $10,000 bond issue at the coming election. Plans for the project include a big pool, dressing rooms, playground, tennis courts, etc.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—The city council is considering a bond issue in the sum of $25,000 to provide three new fire stations and apparatus, including four automobile engines, complete alarm system, etc.

LOS ANGELES, CAL.—The board of supervisors are about to call an election for the purpose of voting bonds to the amount of $3,600,000 for the control of the flood waters that threaten the Los Angeles and Long Beach harbors. In aid of the project it is expected that the Federal government will make an appropriation as recommended by Major R. R. Raymond, U. S. Engineer, of $1,080,000.

SAN DIEGO, SAN DIEGO CO., CAL.—The city council has decided to submit to the people the plan to divert bond money totaling $175,000 to build a highway from San Diego to Torrey Pines, and will be in the form of an alternative, to ascertain whether the people desire the money to be used to build dams on the water system or to build the road.

HEMET, RIVERSIDE CO., CAL.—The election held to vote bonds of $10,000 to assist in paying for the proposed paving of Florida avenue carried last week. Plans have been ordered prepared for this work and bids will be called for in the near future.

MARYSVILLE, YUBA CO., CAL.—A campaign is under way to raise funds for the erection of a civic center auditorium building in this city. It is thought that a building costing $30,000 will be erected.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—The matter of calling a bond election to vote bonds of $100,000 for the proposed building of a new high school in this city has met with favor. A portion of the issue will be used in repairing the present schools.

BRIDGES, DAMS AND HARBOR WORK

Bridge, reinforced concrete. Cost not stated. Engineer, City Engineer, Modesto. Owners, City of Modesto. At the last meeting of the board of directors of the Modesto Irrigation District the directors granted a permit to the city of Modesto to construct a bridge over lateral four at the north end of Eighth street to open that thoroughfare to the state highway and to give direct communication between the highway and the West Side District. Further mention will be made of this work.

HANFORD, KINGS CO., CAL.—Bridge, reinforced concrete, $2,500. Engineer, County Surveyor, Hanford. Owners, Kings County. At the last meeting of the County Supervisors the only bid for the construction of the bridge across Kings River south of Roy station was submitted by H. Irwin Walker and was rejected. The bid was for $2,240 for the labor only, and as the total estimate on the bridge for both labor and material had been only $2,500 the board considered the bid too high. Whether the work will be done by Day Labor or whether new bids will be called is not known at this time.

PORTLAND, ORE.—Viaducts, reinforced concrete and steel, $500,000. Engineer, City Engineer, Portland. Owners, City of Portland. Plans have been completed for the seven proposed concrete viaducts to span Sullivan's Gulch on the East Side over the O.-W. R. & N. Co.'s tracks. They will be located on Sandy Boulevard at East 47th, East 53rd, East 60th, Halsey, East 74th and East 82nd streets. The railroad company will pay 60 per cent of the cost of construction. Bids will be called for shortly.

SEATTLE, WASH.—Bridges, 2, steel and concrete. Cost as follows. Engineer, County Surveyor A. P. Denton, Seattle. Owners, King County. County Engineer A. P. Denton has been instructed to prepare plans for the construction of two bridges, one at Fall City and the other at Stossel. Both spans will be steel on concrete piers, the Stossel bridge being 209 feet long, costing $17,000, and the Fall City being about 250 feet, costing $35,000. Bids will be called for shortly.

SAN FRANCISCO.—Harbor improvements. Cost not stated. Engineer, Ass't State Engineer, Ferry Bldg., S. F. Owners, State of California. The State Engineering Board at Sacramento has approved plans and specifications for the new Pier 11 to be erected at the foot of Green St., on the San Francisco water front. The structure will cost in the neighborhood of $150,000. Bids will be called for by the Harbor Commission shortly.

WATER SYSTEM ADDITION.—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be received until February 18th for furnishing the materials, constructing and installing an addition to the City water works. Plans can be secured from the office of the City Clerk.

OFFICE AND SHOP BUILDING.—1 story, reinforced concrete. Cost not stated. Eureka, Humboldt Co., Cal. Architect, Burke, Eureka. Owners, City of Eureka. Bids will be received until February 15th at 5 p. m. for construction of an office and shop building for the municipal water system. Plans can be secured from either the City Clerk or the architect.

HARBOR IMPROVEMENTS. — Cost not stated. San Francisco. Engineer, Ass't. State Engineer, Ferry Bldg., S. F. Owners, State of California. The State Engineering Board at Sacramento has approved plans and specifications for the new Pier No. 11 to be erected at the foot of Green St., on the San Francisco water front. The structure will cost in the neighborhood of $150,000. Bids will be called for by the Harbor Commission shortly.

VISALIA, TULARE CO., CAL.—Bridge repairs. Cost not stated. Engineer, County Surveyor, Visalia. Owners, Tulare County. A call for bids will be issued by the City Trustees in the near future for repairing the bridges destroyed by recent high waters. The bridges to be repaired will include the approach to the Three Rivers bridge as well as several smaller bridges. Further mention will be made of this work when bids are called.

VISALIA, TULARE CO., CAL.—Bridge, steel and concrete. Cost not stated. Engineer, County Surveyor, Visalia. Owners, Tulare County. Bids will be opened on February 7th for the construction of a bridge across Kaweah River near the place known as the Cottage post office, on Road No. XLIX on the east side of Section 12, Township 18, Range 26 East, Mount Diablo base and Meridian, in the 3rd Supervisorial District.

Contracts Awarded.

PORTLAND, ORE.—Viaduct, reinforced concrete, $33,098.20. Engineer, City Engineer, Portland. Owners, City of Portland. Contractors, Giebsch & Joplin, Portland. Contract price, $33,098.20.

CHURCHES

FAIRFIELD, SOLANO CO., CAL. Church, 1 story and base, frame, $7,500. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Fairfield Methodist Church. Designed in the Mission style and will contain a main auditorium and Sunday School rooms. Interior finish pine and red-

county Work will consist of the addition of a two story wing. Interior finish, pine. Steam heating system extended from present building. Some metal trim and desk. Exterior faced with pressed brick. Plans are being prepared.

FACTORIES AND WAREHOUSES

SAN FRANCISCO.—Warehouse alterations, 6 story and base, reinforced concrete. $30,000. Architect, Maurice E. Couchot, 110 Sutter St., S. F. Owners, Blum Estate. Location, northwest corner of Second and Brannan streets. Work will consist of increasing size of interior columns, raise steel frame on each floor, tying all columns and walls, and place six inch solid wood slab for floor with finish flooring t & g. Contracts will be awarded at once.

MARTINEZ, CONTRA COSTA CO., CAL. Tanks, etc. $250,000. Engineer, Engineering Dept. Shell Oil Co., 343 Sansome St., S. F. Owners, Shell Oil Co. The Lacy Manufacturing Co. of Los Angeles has the contract at $250,000 for the erection of 14 tanks, each to have a capacity of 50,000 bbls. for the Royal-Dutch Shell Co.

VAN NUYS, LOS ANGELES CO., CAL.—Cannery, 1 story and base, frame and corrugated iron, $28,500. Architects, Jeffrey & Schaefer, Van Nuys Bldg., L. A. Owners, Anderson & Barngrower Co. Will cover an area of 100 by 200 feet. No interior finish. Special machinery. Exterior covered with corrugated iron. Plans complete and figures being taken.

FIRE REPORT

BAKERSFIELD, KERN CO., CAL.—The newly constructed mill of the Atolia Mining Company at Atolia, 120 miles southeast of here, in the Randsburg mining district, was burned last night, entailing a loss of over $200,000. The fire was caused by back-firing of a gasoline engine.

CHEHALIS, WASH.—The general store of Hartman and Nathan was destroyed last week, causing a loss of $45,000. The principal owner of the building is Mrs. Flora Mason of San Francisco.

GARAGES.

SAN FRANCISCO.—Garage, 2 story and base, reinforced concrete, $35,000. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. K. Bigelow. Location, north Bush, between Powell and Mason sareets, covering an area of 87½ by 137½ feet. Construction, fireproof. Inclines from basement and first floor. Special gasoline storage tanks. Interior finish, pine. Patent store fronts. Marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

Grand Junction, Colo., Post Office.

As previously reported, the contract for the construction, complete, of the U. S. post office at Grand Junction, Colo., was awarded to Dieter & Wenzel Construction Co., Wichita, Kans., at $106,821; time 18 months. In the construction of the building fixtures and material manufactured by the following firms will be used: Plumbing fixtures, John Douglas Co.; column and wall radiators, Kewanee Boiler Co.; nonconducting coverings, Johns-Manville Co.; radiator valves, Kelly & Jones Co.; air valves for radiators, J. P. Marsh Co.; air valves for steam mains, Jenkins Bros.; cabinet and tablet, Frank Adams Electric Co.; rubber-covered wire, Indiana Rubber and Insulated Wire Co.; flush switches, General Electric Co.; conduit, National Enameling and Mfg. Co.

Dump Cars.

The Reclamation Service at Washington, D. C., has awarded contract to the Wm. J. Oliver Mfg. Co., Knoxville, Tenn., for furnishing 40 dump cars for use in connection with the work on the Yuma irrigation project, Arizona-California, at $1,175 each, delivered f. o. b. Knoxville, Tenn. The Yuma Valley irrigation project embraces 100,000 acres of very fine land in California and Arizona, considerable areas of which are soon to be opened to entry under the homestead law. The region is often described as the Nile of America, owing to the fact that the crops, climate, and soil are similar to those of the great valley of Egypt. All kinds of deciduous and citrus fruits, cotton, cereals, alfalfa, etc., produces abundantly here, and the opportunities for settlers are numerous and attractive.

Clamor Over Dry Docks.

For several days the House naval committee has reveled in an exchange of views concerning the adaptabillty and usefulness of various places as sites for big dry docks. Rarely has there been so much real comfort given to so many eager defenders of home stations as in the present hearing. Even Mobile Bay has been added to the list of good prospects. In the same way the questions of committee members have been so framed as to bring out under the best conditions the possibilities of the navy yards as plants for the construction of capital ships, and the establishment at New Orleans, not hitherto regarded in that class, has, by the ingenious and persistent interrogation of Mr. Estopinal, assumed dimensions and importance that has promptly led the citizens of the Louisiana port to signify to the Navy Department their appreciation and expectancy. When the committee gets down to its consideration of the Navy bill behind closed doors, it may be expected that it will be a somewhat difficult matter to adjust all these conflicting demands which may be reasonably anticipated from all quarters, including the neighborhoods where the facilities have not, up to the present time, been regarded as furnishing a debatable issue.

Milk River Project, Winches.

The following bids were received by the purchasing agent of the U. S. Reclamation Service, Denver, Colo., for furnishing 15 winches, etc., for the Milk River project, Mont.:

Vulcan Iron Works Co., schedule No. 1, $1,425.80; 2, $113.80.

Colorado Iron Works, schedule 1, $1,852.60; 2, $139.85.

Walker Mfg. Co., schedule 1, $1,760; 2, $120.

All deliveries f. o. b. Denver, Colo.

Public Building Appropriations.

During the fiscal year 1915 the supervising architect placed under contract 99 buildings, while the estimates submitted to the last Congress covered 65 buildings only. In consequence thereof the office is in urgent need of funds as listed below for commencement, construction, and completion of the work. Congress is therefor requested to include same in the urgent deficiency appropriations:

Treasury Department.

Public Buildings, Construction and Site.

Aberdeen, Wash., for continuation building, $45,000.

Bakersfield, Cal., for continuation building, $53,000.

Basin, Wyo., for commencement building, $500.

Cody, Wyo., for commencement building, $500.

Cordova, Alaska, for commencement site and building, $500.

Douglas, Ariz., for commencement building, $40,000.

Durango, Colo., for commencement building, $40,000.

Ellensburg, Wash., for continuation building, $30,000.

Fort Morgan, Colo., for commencement, building, $500.

Jamestown, N. Dak., for commencement, building, $30,000.

Kalispell, Mont., for continuation building, $30,000.

Las Cruces, N. Mex., for commencement, building, $500.

La Junta, Colo., for completion, site and building, $20,000.

Madison, S. Dak., for commencement building, $12,000.

Missoula, Mont., for continuation, extension, $15,000.

Richfield, Utah, for commencement building, $500.

Roseburg, Ore., for continuation building, $39,000.

Twin Falls, Idaho, for commencement, building, $15,000.

Vancouver, Wash., for continuation building, $45,000.

Willow, Cal., for continuation, site and building, $20,000.

Public Buildings, Repairs, Equipment and General Expenses.

Repairs and preservation of public buildings—For repairs and preservation of public buildings, including the same objects specified under this head in the sundry civil appropriation act for the fiscal year 1916, $75,000.

Vaults and safes for public buildings—For vaults and safes for public buildings, including the same objects specified under this head in the sundry civil appropriation act for the fiscal year 1916, $20,000.

HONOLULU, HAWAII.—Steel tower, cost not stated. Engineer's name not given. Owners, United States Government. Sealed proposals will be received by the lighthouse inspector, Honolulu, Territory of Hawaii, until Mar. 1, 1916, for furnishing one 72-foot galvanized structural steel tower, delivered freight on board Honolulu, Terr

tory of Hawaii. Further information may be had on application to tthe lighthouse inspector, Honolulu.

HALLS AND SOCIETY BUILDINGS

BEND, ORE.—Auditorium, 1 story and base, mill construction. Cost not stated. Architect, W. H. Downing, Bend, Ore. Owner, City of Bend. Will contain main auditorium, office, smaller meeting rooms and space for mechanical department. Interior finished in pine with some hardwood. Steam heat and oil burning equipment. Exterior faced with pressed brick and terra cotta. Plans complete and figures being taken.

Contracts Awarded.

POMONA, LOS ANGELES CO., CAL.—Lodge Hall, 2 story and base, brick. $14,000. Architect, C. E. Wolfe, Pomona. Owners, Knights of Pythias Hall Association. Contractor, J. W. Graves, Pomona. Contract price, $14,000.

HOSPITALS

SAN FRANCISCO.—Hospital hardware. Cost not stated. Architect Lewis P. Hobart, Crocker Bldg., S. F. Owners, regents of the University of California. Bids were opened in the office of Architect Lewis P. Hobart by the Regents of the University of California for furnishing the finish hardware for the University Hospital being erected at Fourth and Parnassus avenues. Bennett Bros. presented the lowest figure at $7,287. Following is a complete list of the bids received: A. W. Pike Co., $7,849, 30 days; Bennett Bros, $7,287, 120 days; Joost Bros., $9,058, 90 days; Charles Brown, $9,935, 90 days; F. G. Norman & Son, $8,578, 90 days; Palace Hardware Co., $9,750, 150 days.

SAN FRANCISCO.—Hospital ward, 1 story, reinforced concrete. Cost not stated. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, Letterman General Hospital, Presidio. Designed for an open air tubercular ward. Interior finish, pine. Special window sash and awnings. Clay tile roof. Exterior faced with cement plaster. Plans complete and specifications being written.

LOS ANGELES, CAL.—Clinic, 1 and 2 story and base, reinforced concrete. Cost not stated. Architect's name not given. Owner, O. T. Johnson. Location, Castelar street, covering an area of 50 by 120 feet. Will contain office, operation and consultation rooms. Interior finish, pine and tile. Steam heat and hot water system. Exterior faced with cement plaster. Plans complete and figures being taken.

HOTELS

PITTSBURG, CONTRA COSTA CO., CAL.—Hotel, 3 story and base, brick and steel. Cost not stated. Architect, A. W. Cornelius, Merchants National Bank Bldg., S. F. Owners, S. Carusa & Bro. Will contain a garage on the first floor and modern hotel rooms on the upper floors. Interior finish pine, heat and hot water supplyETAOINU Steam heat and hot water supply. Oil burning equipment. Patent store fronts. Structural steel contract let to Brode Iron Works, S. F. for $1,258. Other parts of the work to be done by Day Labor. Exterior faced with cement plaster.

HERCULES, CONTRA COSTA CO., CAL.—Hotel, 2 story and base, frame. $14,000. Architect, James T. Narbett, Richmond. Owners, Hercules Powder Co., The following bids for the construction of this building have been taken under advisement: Mathew Morton, 1300 Alcatraz Ave., Berkeley, $13,447; Carl Overaa, $13,714; J. S. Hannah, $13,888; Williams Bros. & Henderson, $14,190; Oscar Johnson, $14220; E. D. Sharp, $14,700.

CALEXICO, IMPERIAL CO., CAL.—Hotel, 2 story and base, reinforced concrete. $20,000. Architect Samuel B. Zimmer, El Centro National Bank Bldg. El Centro. Owners, Frank and Dana Weed. First floor will contain stores and upper floor modern hotel rooms. Interior finish, pine and redwood. Hot water system. Bath rooms, tile. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

CONCRETE, WASH.—Hotel, 3 story and base, brick. $40,000. Architect, W. W. Noyes, New York Block, Seattle. Owner's name withheld. Will cover a ground area of 60 by 120 feet, and will contain a number of single rooms with and without private baths. Interior faced with pressed brick. Plans being prepared.

Contracts Awarded.

ATASCADERO, SAN LUIS OBISPO CO., CAL.—Hotel, 2 story and base, frame and plaster. $50,000. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Atascadero Colony. Contractors, F. O. Engstrom Co., 5th and Seaton Sts., L. A. Contract price, $50,000.

IRRIGATION PROJECTS

MADERA, MADERA CO., CAL.—Irrigation project. Cost as follows. Engineer, R. L. Hargrove, Madera. Owners, Madera Canal and Irrigation Co. At the last meeting of the Madera Irrigation Bureau Directors Engineer R. L. Hargrove of the Madera Canal and Irrigation Company explained to the directors his plans for building a dam on the San Joaquin River and storing water of the river and other streams. Plans showing the proposed dam and the proposed main canal were considered by the directors, but action was postponed until the next meeting. Hargrove stated that a dam 230 feet high and 2,400 feet wide would hold 300,000 acre feet of water. A dam 100 feet high and 1,000 feet wide would hold 20,000 acre feet of water. The 230-foot dam would cost probably four or five million dollars and in the opinion of Mr. Hargrove was too large a project for an irrigation district to tackle alone. The dam 100 feet high would cost in the neighborhood of $500,000. Further mention will be made of this work when the directors have accepted the plans of Mr. Hargrove.

BYRON, CONTRA COSTA CO., CAL.—Irrigation canal. Cost not stated. Engineer's name not given. Owners, Byron Irrigation District. The construction of a canal along the county road west of Byron, thence along the county road lining the McCabe property south of Byron to the railroad culvert, is now being considered by the directors of the Byron-Bethany Irrigation District.

YREKA, SISKIYOU CO., CAL.—Irrigation pump. Cost not stated. Engineer none. Owners, A. L. Harlow et al, Yreka. A. L. Harlow et al have purchased land of the Mt. Shasta Land and Irrigation Co., and are planning the installation of another 500 horse power electric pump. The additional pump will enable the owners to place under irrigation approximately 10,000 acres of land.

KLAMATH FALLS, ORE.—Reclamation work, $97,970. Engineer, Don J. Zumwalt, Klamath Falls. Owners, Klamath Falls Drainage District. According to the report of Don J. Zumwalt, project engineer for the Klamath Drainage District of this city, diking is the most feasible manner of reclaiming the 27,500 acres of marsh land in the district. This plan contemplates the construction of 32.4 miles of dikes at a total cost of approxiately $97,970, on both sides of Klamath Straits, beginning at the railway embankment. Further mention will be made of this work.

COLUSA, COLUSA CO., CAL.—Pumping system. Cost not stated. Engineer's name not given. Owners, Rice Land and Product Co., Colusa. The Rice Land and Produce Co., which purchased the Blevins and Mallon plantation, is making arrangements for the installation of a larger pump at the Sacramento river to double the amount of water pumped last season, and extend the irrigation system further westward and irrigate 2,000 acres owned by the Sacramento Valley Irrigation Co., and California-Idaho Land Company, which will be planted to rice.

LIBRARIES.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Library, 1 story and base, brick, $10,000. Architect, W. H. Weeks, 75 Post St., S. F. Owners, Town of South San Francisco. A resolution in reference to Contractors O'Rourke & Brady not finishing the construction of the new public library building on the civic center site according to contract, and authorizing its completion by the architect, W. H. Weeks, the cost of same to be deducted from money due Contractors O'Rourke & Brady, was adopted.

HAYWARD, ALAMEDA CO., CAL.—Library stacks, metal. Cost not stated. Architect's name not given. Owners, Town of Hayward. Bids will be received until February 7th for the installation of metal library book stacks in the new public library. Plans can be secured from the City Clerk.

TURLOCK, STANISLAUS CO., CAL.—Library, 1 story and base, brick and concrete. $10,000. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, Town of Turlock. Will contain main reading rooms, stack rooms and office of the librarian. Interior finish, pine and hardwood with some maple floors. Steam heat. Metal book stacks. Exterior faced with cement plaster or pressed brick. Plans complete and figures being taken. Bids close February 10th. Plans from the architects, or City Clerk.

Contracts Awarded.

DINUBA, TULARE CO., CAL.—Library, 1 story and base, brick and concrete. $7,291. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, City of Dinuba. Contractor, Ben Brown, Dinuba. Contract price, $7,291.

POWER IMPROVEMENTS

SACRAMENTO, CAL.—Water system addition. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be received until February 18th for furnishing the materials, constructing and installing an addition to the City water works. Plans can be secured from the office of the City Clerk.

EUREKA, HUMBOLDT CO., CAL.—Office and shop building, 1 story reinforced concrete. Cost not stated. Architect, Burke, Eureka. Owners, City of Eureka. Bids will be received until February 15th at 5 p. m. for construction of an office and shop building for the municipal water system. Plans can be secured from either the City Clerk or the architect.

POST OFFICES

CHICO, BUTTE CO., CAL.—Postoffice painting. Cost not stated. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. George Kirk, in charge of construction at the Chico Post office states that the bids of Vincent Donovan of San Francisco and of F. A. Selak of Grass Valley for the interior painting of the new Federal building have been forwarded to Washington, D. C.

BAKERSFIELD, KERN CO., CAL.—Postoffice, 2 story and base, class C construction, $53,400. Architect, Supervising Architect, Washington, D. C. Owner, United States Government. An appropriation amounting to $53,400 has been made for constructing the Federal postoffice at Bakersfield, Cal. Construction will start shortly.

RAILROAD CONSTRUCTION AND EQUIPMENT.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Steel tank. Cost not stated. Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Work will be started shortly by the Southern Pacific Co. for a new 60,000-gal. steel tank to be erected just north of the station near the Washington street switch. The foundation will be of concrete, the supports of steel and the tank will be of galvanized iron. It will be about 50 feet high.

RESIDENCES.

SAN FRANCISCO—Residences, 300, 1 and 2 story and base, frame, $2,500 to $3,500 each. Architect, none. Owner, Fernando Nelson, 30 Presidio avenue, S. F. Fernando Nelson, one of the best known and largest residence operators in San Francisco, has just closed negociations for a large tract bounded by Goden Gate Park, Lincoln Way, 27th and 33rd avenues, containing over 300 choice building lots. He will at once start construction on a number of homes and before the year expires states that over three hundred houses will be erected. Work will be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $15,000. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, Charles Lawrence. Location, Vallejo street between Divisadero and Broderick. Will contain twelve rooms, three baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO — Residence, 1 story and base, frame, $2,500. Architect, none. Owner, J. H. Thorup, 281 26th avenue, S. F. Location, east 24th avenue north of Balboa. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owners, Costello & Feerick, 3503 Mission street, S. F. Location, east 17th avenue north of Balboa. Will contain six rooms and bath. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, C. A. Hall, 1318 5th avenue, S. F. Location, east 12th avenue north of Balboa. Each will contain six rooms, bath and basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $2,500 each. Architect, none. Owner, A. T. Morris, 501 11th avenue, S. F. Location, west 9th avenue north of Cabrillo. Each will contain five rooms and bath. Interior finished in pine and white enamel and some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms composition floor. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Theodor Schultz, 56 Kissling street, S. F. Location, east 41st avenue north of Balboa. Will contain six rooms and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Tile bath. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, G. W. Glautz, 1464 87th avenue, Oakland. Location, east 88th avenue north of Borch. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, G. A. Headburg, 3348 11th avenue, Oakland. Location, east Midvale north of California. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,750. Architect, none. Owner, A. Osborn, 1224 Spruce street, Berkeley. Location east Acton north of Francisco. Will contain five rooms and bath. Interior finish pine and hardwood. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, A. T. Anderson, 2335 Lockwood street, Oakand. Location, south Arizona east of Maple. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire pace and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, Nova Piedmont. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Pans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,200. Architect, Merrill Newsom, 1743 Broadway, Oakland. Owner, E. L. Higgins. Location, Thomas street. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO—Residences, 3, 2 story and base, frame, $2,500 each. Architect, none. Owner, J. Anderson, 423 16th avenue, S. F. Location, west 17th avenue south Geary. Each will contain six rooms and bath. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owner, Mrs. Pendleton. Location, El Cerito avenue. Will contain ten rooms, three baths and sleeping porch. Interiors finish pine and hardwood with white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and subfigures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, Charles W. McCall, Central Bank Bldg.,

Oakland. Location, west Thomas south of Prospect. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire place and furnace heat. Automatic water heater. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $2,800. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. D. Garretson, 610 Thomason Bldg. Location, Monte Vista avenue. Will contain five rooms each with bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $10,000. Architect, H. H. Gutterson, 80 Post street, S. F. Owner, Miss Martha Ames. Location, Crocker Oaks Tract. Will contain ten rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans being figured.

HILLSBOROUGH, SAN MATEO CO., CAL.—Residence, 2 story and base, frame, $10,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Miss Edith S. Chessbrough. Location, Brower Tract. Will contain ten rooms, several baths and sleeping porches. A separate garage will be erected on the property. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and subfigures being taken.

SAN MATEO, SAN MATEO CO., CAL.—Residence, 1 story and base, frame, $5,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name withheld. Location, San Mateo Drive and Villa Terrace. Will contain eight rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Automatic water heater. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

SAN JOSE, SANTA CLARA CO., CAL.—Residences, 1 and 2 story, frame. Cost as follows. The following Day Labor jobs are reported as about to be started in San Jose: J. A. Wagner, 245 South 17th street, 6 room cottage, $2,000; A. D. York, Y. M. C. A. Bldg., 5 room cottage, $1,600, and E. A. Bishop, 660 South 9th street, 4 room cottage, $1,450.

SAN MATEO, SAN MATEO CO., CAL.—Residence, 1 story and base, frame, $3,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Charles Stevenson. Location, Highland avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. D. McKoy, 3029 S street, Sacramento. Location, 3117 E street. Will contain six rooms and bath. Interior finish pine. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $5,720. Architect, none. Owner, C. G. Eberhart, Weldon street, Fresno. Location, Bloomington Addition. Will contain eight rooms, baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, C. D. Wagner, Story Bldg., L. A. Owner, Mrs. L. O. Crenshaw. Location, Victoria Drive. Will contain thirteen rooms, several baths and sleeping porch. Interior finish pine and hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Hot water circulating system. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Residence, 2 story and base, concrete. Cost not stated. Architect, Harold Cross, 123 South Dillon street, L. A. Owner, Mach Sennett. Location, near Keystone. Will contain a number of rooms besides private storage space. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water system. Bath rooms tile and equipped with showers. Exterior faced with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL.—Residence, 2 story and base, hollow tile construction. Cost not stated. Architect, W. A. McCutcheon, 103 North Kingsley Drive, L. A. Owner, O. E. Brown. Location, Ramona Acres. Will contain sixteen rooms, several baths and a separate garage. Interior finish pine and hardwood with some white enamel and hardwood floors. Furnace heat and hot water system. Bath rooms tile. Exterior faced with cement plaster. Plans being prepared.

SCHOOLS

REDWOOD CITY, SAN MATEO CO., CAL.—Schools, 2, 1 story and base, hollow tile, $15,000 each. Architect, N. W. Sexton, Hearst Bldg., S. F. Owners, Redwood City School District. Each will contain four class rooms and an assembly hall. Interior finish pine. Maple floors. Modern school plumbing and slate blackboards. Exterior faced with cement plaster. Plans being prepared.

SAN BRUNO, SAN MATEO CO., CAL.—School 1 story and base, frame, $12,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. Will contain four class rooms. Interior finish pine. Stoves for heating. Modern plumbing and slate blackboards. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

OAKLAND, CAL.—School addition, 2, 1 story wings, frame. Cost as follows. Architect, J. J. Donovan, Dalziel Bldg., Oakland. Owners, City of Oakland. Christensen Bros. submitted the low figures for work at the Highland School and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

EL CENTRO, IMPERIAL CO., CAL.—School, 2 story and base, reinforced concrete, $110,000. Architect, Samuel B. Zimmer, El Centro National Bank Bldg., El Centro. Owners, El Centro School District. Will contain a large number of class rooms, principal's office, library and auditorium. Interior finish pine with maple floors. Steam heat, oil burning plant, vacuum cleaning and slate blackboards. Complete steel frame, concrete floors, walls and stairways. Exterior faced with cement plaster. Plans complete and figures being taken. Bids open on February 11th. Plans at office of the architect.

GOLD RIDGE SCHOOL DISTRICT, SONOMA CO., CAL.—School, 1 story, frame. Cost not stated. Architect, none. Owners, Gold Ridge School District. Will contain two class rooms. Interior finish pine. Exterior shingles or cement plaster. Plans complete and figures being taken. Bids close on February 7th. Plans and specifications from County Superintendent of Schools, Santa Rosa.

BERKELEY, ALAMEDA CO., CAL.—College construction, granite, etc. Cost not stated. Architect, John Galen Howard, 604 Mission St., S. F. Owners, Regents of the University of California. Bids will be opened on February 7th for heating and ventilating and electric work on Benj. Ide Wheeler Hall and granite work on the esplanada of the Jane K. Sather Tower. Plans can be had from the office of the Comptroller at Berkeley. An official proposal appears in another column of this issue.

BERKELEY, ALAMEDA CO., CAL.—School fire escape, $1,120.50. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Robert S. Levy & Co., 110 Jessie St., S. F., submitted the only bid, and will be awarded the contract, for installing fire escapes on the Manual Arts building of the California School for the Deaf and Blind.

PORTLAND, ORE.—School, 3 story and base, mill construction, $10,000. Architect, J. Bennes, Chamber of Commerce Bldg., Portland. Owners, Oregon Agricultural College. Designed for a forestry building and arranged for class rooms and machinery rooms. Interior finish, pine. Steam heat. Exterior faced with pressed brick. Plans complete and figures being taken

Contracts Awarded.

RICHMOND, CONTRA COSTA CO., CAL.—School addition, 1 story, frame, $1,738. Architect's name not given. Owners, City of Richmond. Contractor, H. W. McCausland, San Pablo. Contract price, $1,738.

SEALED PROPOSALS

PROPOSALS FOR SPILLWAY GATES.

SPILLWAY GATES—U. S. Engineer Office, Seattle, Wash.—Sealed proposals for spillway gates will be received here until **12 m. February 16, 1916,** and then opened. Information on application.

PROPOSALS FOR STEEL CABINET.

STEEL CABINET—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be received here until **10 a. m. February 9, 1916,** for furnishing steel cabinet for vault of the U. S. post office and court house at Eureka, Cal. For further information address the supervising architect.

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, February 28, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials and labor, and doing the work required for the complete construction and erection of the "Women's Building," Agricultural Park, Sacramento, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposals for 'Women's Building,' Agricultural Park, Sacramento, California."

(Signed) W. F. McCLURE,
State Engineer.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, St. Ignatius, Mont., until **2 o'clock p. m. February 8, 1916,** for construction of canals and structures on the Flathead project, Montana, involving about 4,000 cubic yards of excavation, 300 cubic yards of reinforced concrete, 900 square yards of paving, laying 1,300 linear feet of vitrified pipe, erecting 16,000 feet, B. M., of lumber, and placing of 35,000 pounds of structural and reinforcing steel. The work is located from two to eight miles southeast of Arlee, Mont., on the Northern Pacific Railway. For particulars address the U. S. Reclamation Service, Washington, D. C., Denver, Colo., or St. Ignatius, Mont. D. C. HENNY, acting chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1005 — Proposals for Bronze Castings, Gray Iron Castings, Malleable Iron Castings, Steel Castings, Steel Forgings, Machinery Steel Bars, Steel Plates and Shapes, Steel Springs, Lock Washers, Electric Cable and Wire.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. February 23, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles.

Blanks and general information relating to this circular (No. 1005) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

OFFICE of the Clerk of the Board of Supervisors of the County of Sacramento, State of California:

Pursuant to an order of the Board of Supervisors of the County of Sacramento, State of California, made and entered on record on the 5th day of January, A. D. 1916.

Notice is hereby given that sealed bids will be received by the undersigned up to, and not later than, the hour of **2 p. m., of the 16th day of February, A. D. 1916,** at office of said Board in the Court House Building, Seventh and I streets, Sacramento City, for the furnishing of all labor, materials and mechanical workmanship necessary for the erection and completion of a new Nurses Home building, situate on the present County Hospital Grounds, County of Sacramento, Cal., in accordance with the plans and specifications prepared therefor by R. A. Herold, architect, and adopted by the Board of Supervisors of the County of Sacramento, which plans and specifications may be seen and examined, during office hours, by intending bidders, at the architect's office, Rooms 430-37 Forum Building, Sacramento, California.

All bids must be submitted on blank forms furnished by the Clerk of the Board, and must be accompanied with a certified check on some solvent bank in a sum equal to ten (10) per cent of the amount of each bid, conditioned that if the contract is awarded the party submitting accepted bid will enter into contract and furnish such bond as may be required within ten days after making award, or, failing so to do, the amount of such check to be forfeited as liquidated damages for such failure. All checks to be made payable to the order of the Chairman of the Board of Supervisors of Sacramento County.

The Board reserves the right to reject any or all bids.

By order of the Board of Supervisors of Sacramento County, California.

Attest (Seal) E. F. PFUND,
County Clerk and ex-Officio Clerk of the Board of Supervisors of Sacramento County, California.
By F. Gregory, Deputy Clerk.

SEWERS, STREET WORK & WATER SYSTEMS

SAN FRANCISCO — Street improvement. Cost as follows. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The following bids were opened by the Board of Public works for the grading of 37th avenue between Anza and Balboa: Making cut per yard, estimated quantity 26,960 yards: Owen McHugh, Russ Bldg., 30c; J. G. Harney, 3619 18th street, 70c; Tibbitts-Pacific Co., 16 California, 56c; H. Claudius, 660 Market, 39c; J. J. Rauer, 281 Post, 37¾c.

SAN FRANCISCO—Street paving and sewer construction. Cost not stated. Engineer, City Engineer, Temporary City Hall. Owners, City and County of San Francisco. The Board of Public Works passed a resolution of intention to pave and sewer Minna St. from 10th to 11th; to sewer Hamburg street between Hearst and Flood; sewer Flood between Hamburg and Phelan; sewer Goettingen between Burrows and Felton; to sewer and pave Bacon between Gerard and Berlin and the crossing at Bacon and Berlin.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids will be opened on February 10th at 2 p. m. for the construction of Highway No. 1, Division No. 5-A; Section No. 2, Division No. 5-B, and Division No. 7, Section No. 1 (Haford to Hardwick). The quantities to be bid on are as follows: 1, 7,500 cubic yards of excavation (including borrow). 2, 675,578 sq. ft. of 2½-inch base (surface area). 3 or 4, 675,578 sq. ft. of 1½-inch Topeka or Warrenite top. 5, 200 lin. ft. standard guard fence.

VISALIA, TULARE CO., CAL.—Street Paving. Cost not stated. Engineer, City Engineer, Visalia. Owners, City of Visalia. The City Trustees have ordered plans and specifications prepared for the paving of 16 blocks in this city. On adoption of the plans a call for bids will be issued as it is the intention of the officials to have the work under way as soon as possible. The streets to be improved are as follows: Three blocks on Acequia street from Court street west; 2 blocks on Oak street from Court street to Garden street; 5 blocks on East street (The Santa Fe) from Center street to Mineral King avenue; North Church street from Oak street to N. E. First avenue.

SACRAMENTO, CAL.—Sump connection, $109,000. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Estimates furnished by City Engineer Miller to the City Commissioners place the cost of connections between Sump No. 1 and Sump No. 2, to accommodate the dry weather flow at $109,000. Miller stated in his estimate that the grade is so flat that a 51-inch sewer will be necessary to carry the flow. The line would go south to near the Sacramento Southern Railway line and thence south to Station No. 2. Action will probably be taken by the Commission at their next meeting.

SACRAMENTO, CAL. — Sewer construction. Cost not stated. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Plans have been completed and bids will be called for shortly for the following sewer construction: 8, 10, 14, 16, 18, 20, and 22 inch vitrified ironstone. Pipe to be land in Freeport road and in the West Curtis Oaks District.

STOCKTON, SAN JOAQUIN CO., CAL. Street paving, $3,508.04. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council at its last meeting approved specifications and ordered bids called for repairing the asphalt pavement on Center street from Main to North; Weber avenue from Commerce to East street; Hunter street from Weber avenue to Washington street; Washington street from Hunter to American; Market street from Center to East; California from Hazelton to North; Sutter street from Channel to Lafayette. Plans for this work may be secured at the office of the City Clerk at Stockton.

OAKLAND, CAL.—Street improvement, $100,000. Engineer, County Surveyor Haviland, Oakland. Owners, Alameda County. At the last meeting of the County Supervisors County Engineer Haviland was instructed to pre-

pare plans for the improvement of East Fourteenth street between San Leandro and Hayward, which has been declared a boulevard. The distance to be improved is about 3 miles in length.

SAN LEANDRO, ALAMEDA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer R. H. Goodwin, San Leandro. Owners, City of San Leandro. At the last meeting of the Board of Trustees City Engineer R. H. Goodwin filed a set of plans and specifications for the improvement of Sybil avenue to the Foothill Boulevard, which was adopted. Bids will be called for shortly on this work.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the plans and specifications for grading, paving, curbing and sewering, and the construction of storm water drain ditches on Bay street, were adopted. Bids on this work will be called for shortly.

HANFORD, KINGS CO., CAL.—Furnishing sand. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings Co. Bids will be received up to 2:30 p. m., Feb. 10th, by the County Supervisors for 35,000 tons of sand for county highway work. Further information may be had from the Clerk of the Supervisors at Hanford.

FRESNO, FRESNO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Council has passed resolutions of intention providing for the improvement of the following streets: That 1st St., in the City of Fresno, from the north line of Ventura Ave. to the north line of Tulare Ave., and that Kerckoff Ave. from the east line of 1st St., to the W. line of 8th St., be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 1½ inch Warrenite wearing surface laid upon 2½ inch asphalt, concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. That Santa Fe Ave., in the City of Fresno, from the easterly line of Kern St., to the Friant Branch of the Southern Pacific Railroad, be graded, guttered and curbed with cement concrete curb and gutter and paved with a pavement consisting of a cement concrete base, 5 inches thick, and Bitulithic wearing surface, 2 inches thick; also that there be constructed 2 corrugated iron culverts and cast iron return culverts. That Ventura Ave., in the City of Fresno, from the west line of Angus St. to the east City Limits be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 2 inch Bitulithic wearing surface laid upon 5 inch cement concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. Further mention will be made of this work.

RED BLUFF, TEHAMA CO., CAL.—Lighting system. $2,700. Engineer, City Engineer, Red Bluff. Owners, City of Red Bluff. At a special meeting of the board of trustees, plans and specifications were adopted for a street lighting system for Main street from Elm to Hickory streets. The specifications call for electroliers to be placed at each corner of the intersections of two streets, and one on each side of the street in middle of the block. The lighting system used will be Ornamental Luminous Arc lamps. Bids are now being taken.

Contracts Awarded.

BERKELEY, ALAMEDA CO., CAL.—Lighting system. $22,300. Engineer City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Pacific Fire Extinguisher Co., 507 Montgomery street, S. F. Contract price, $22,300. Contract covers only lighting system in District No. 1 in Claremont.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street pavement, gutters and curbs. $36,938.36. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. Contractors, D. O. Church Co., Foxcroft Bldg., S. F. Contract price, $36,938.36.

STORES AND OFFICES.

SAN FRANCISCO.—Market, 1 story and base, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owner, Charles S. Howard. Location north Bush, west of Mason, covering an area of 69½ by 86 feet. Will contain a large and up-to-date market. Tile floor and wainscot. Refrigerating plant. Patent store fronts. Exterior faced with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO.—Stores and office alteration, 3 story and base, frame. Cost not stated. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, H. S. Bodley. Location, Mission between 21st and 22nd streets. Will consist of interior finish, patent store fronts, marble bases and new plumbing and electric work. Plans being prepared.

BURLINGAME, SAN MATEO CO., CAL.—Stores and offices, 2 story and base, reinforced concrete, $15,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, Judge Lamb and F. D. Lawton. Location, Burlingame Ave. and Park Road, covering an area of 50 by 100 feet. Will contain stores on the first floor and offices and apartments above. Interior finish pine and southern gum. Patent store fronts, marble bases and tile vestibules. Exterior faced with cement plaster. Plans being prepared.

BURLINGAME, SAN MATEO CO., CAL.—Stores, 2 story and base, reinforced concrete, $10,000. Architects, Edwards and Norberg, Bank Bldg., Burlingame. Owner, City Attorney Kirkbride. Location, Burlingame Ave. Will contain one store and a number of modern offices. Interior finish, pine and southern gum. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

OAKLAND, CAL.—Stores, 1 story and base, brick. Cost not stated. Architects, Welsh & Carey, Merchants National Bank Bldg., S. F. Owner, A. Pallidini. Location, Washington street covering an area of 50 by 75 feet. Will be arranged for a modern fish market. Interior finish, pine and tile. Tile floor. Patent store front and marble base. Exterior faced with white enamel brick. Plans are being prepared.

OAKLAND, CAL.—Stores and lofts, 8 story and base. Class A construction. Cost not stated. Architect, Walter J. Mathews, 927 Broadway, Oakland. Owner, Charles Jurgens, leased to John Breuner Co. Location northwest 15th and Clay Streets. Complete steel frame, brick exterior walls, faced with pressed brick and terra cotta. Steam heat, elevator service and patent store fronts. Marble bases. Interior, pine and hardwood. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Stores and offices, 2 story and base, brick, $15,000. Architect, James T. Narbett, 701 Macdonald Ave., Richmond. Owner, Dr. W. E. Cunningham. Location, Ninth and MacDonald Aves. will contain stores and a number of modern offices. Interior finish pine and hardwood with some white enamel. Steam heat and oil burning equipment. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and ready for figures.

TACOMA, WASH.—Market, 2 story and base, brick and concrete, $50,000. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, Frye-Bruhn Co., Location, Broadway, between 11th and 12th streets, covering an area of 60 by 120 feet. Interior finish, pine and tile with tile floors. Refrigerating plant. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

EL CENTRO, IMPERIAL CO., CAL.—Telephone plant, 2 story and base, brick, $32,000. Architect's name not given. Owners, Imperial Telephone Co. The Imperial Telephone Company plans to expend $32,000 shortly in the erection of a modern telephone plant and building on State St., between 6th and 7th streets, to be completed by April 1st. J. F. Bexdecheck is manager of the company.

THEATRES

BURLINGAME, SAN MATEO CO., CAL.—Theatre and stores, 2 story and base, reinforced concrete. Cost not stated. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Mr. Gates. Will contain a large and modern motion picture theatre on the first floor and two stores. Upper floor arranged for offices. Interior finish, pine and ornamental plaster. Patent store fronts, and marble bases. Ventilation and special electric wiring. Exterior faced with cement plaster. Plans being completed.

OAKLAND, CAL.—Theatre, 1 story and base, brick and steel. Cost not stated. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, H. C. McPike Estate. Location, east Franklin, north of 15th. Construction will be fireproof. Interior finish pine and ornamental plaster. Heating system, ventilating and special electric work. Exterior faced with cement plaster and pressed brick. Plans complete and figures to be called for at once.

MANHATTAN BEACH, LOS ANGELES CO., CAL.—Amusement pier and pavilion, concrete and frame, $90,000. Architects, Train & Williams, Exchange Bldg., L. A. Owners, Manhattan Beach. The pavilion will contain a dancing pavilion, booths, etc., on the main floors and dressing rooms for bathers in the basement. It will rest on cement piles, frame superstructure, cement plaster exterior, composition roof, plumbing, wiring, hardwood flooring. Plans are being prepared.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

STREET IMPROVEMENT—Cost as follows. San Francisco. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The following bids were opened by the Board of Public Works for the grading of 37th avenue between Anza and Balboa. Making cut per yard, estimated quantity 26,960 yards. Owen McHugh, Russ Bldg., 30c; J. G. Harney, 3619 18th street, 70c; Tibbitts-Pacific Co., 16 California, 56c; H. Claudius, 660 Market, 39c; J. J. Bauer, 381 Post, 37¾c.

STREET PAVING AND SEWER CONSTRUCTION—Cost not stated. San Francisco. Engineer, City Engineer, Temporary City Hall. Owners, City and County of San Francisco. The Board of Public Works passed a resolution of intention to pave and sewer Minna street from 10th to 11th. To sewer Hamburg street between Hearst and Flood, sewer Flood between Hamburg and Phelan, sewer Goettingen between Burrows and Felton, to sewer and pave Bacon between Gerard and Berlin and the crossing at Bacon and Berlin.

APARTMENT HOUSE—4 story and base, reinforced concrete, $25,000. San Francisco. Architect, none. Owner, John Dempniak, 1664 Washington street, S. F. Location, east Hyde north of Sutter, covering an area of 25 by 92 feet. Will contain eight suites of three and four rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Automatic elevator, oil burning equipment. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $36,000 to $40,000. San Francisco. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, I. Rosenberg. Location, southeast corner of Washington and Presidio avenue. Designed for residential apartments and will contain twelve suites of five rooms each. Interior finish pine and hardwood with some white enamel and hardwood floors. Steam heat, oil burning plant, hot water system and vacuum cleaning. Automatic elevator. Bath room tile. Marble and tile wainscot. Exterior faced with cement plaster on metal lath. Pans complete and segregated figures being taken.

APARTMENT HOUSE—6 story and base, steel and brick, $65,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Theo and Cara Rulfs. Location, northeast corner of Sutter and Jones streets. Will contain five stores and a total of 32 apartments of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat from city plant, automatic elevator and hot water system. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick and terra cotta. Plans complete and segregated figures being taken.

APARTMENTS AND STORES — 3 story and base, frame, $12,000. San Francisco. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owner, Arthus Arlett, Newhall Bldg. Location, northeast corner of Folsom and 12th street, covering an area of 43½ by 67½ feet. Will contain four stores and ten apartments of two and three rooms. Interior finish pine. Hot water system. Patent store fronts. Exterior covered with cement plaster on metal lath. Plans complete and work by Day Labor.

RESIDENCES—300, 1 and 2 story and base, frame, $2,500 to $3,500 each. San Francisco. Architect, none. Owner, Fernando Nelson, 30 Presidio avenue, S. F. Fernando Nelson, one of the best known and largest residence operators in San Francisco, has just closed negotiations for a large tract bounded by Golden Gate Park, Lincoln Way, 27th and 33rd avenues, containing over 300 choice building lots. He will at once start construction on a number of homes and before the year expires states that over three hundred houses will be erected. Work will be done by Day Labor.

RESIDENCE — 3 story and base, frame, $15,000 San Francisco. Architect, G. A. Applegarth, Claus Spreckels Bldg., S. F. Owner, Charles Lawrence. Location, Vallejo street between Divisadero and Broderick. Will contain twelve rooms, three baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. San Francisco. Architect, none. Owner, J. H. Thorup, 281 26th avenue, S. F. Location, east 24th avenue north of Balboa. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owners, Costello and Feerick, 3503 Mission street, S. F. Location, east 17th avenue north of Balboa. Will contain six rooms and bath. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, C. A. Hall, 1318 5th avenue, S. F. Location, east 12th avenue north of Balboa. Each will contain six rooms, bath and basement gagare. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCES—2, 2 story and base, frame, $2,500 each. San Francisco. Architect, none. Owner, A. T. Morris, 501 11th avenue, S. F. Location, west 9th avenue north of Cabrillo. Each will contain five rooms and bath. Interiors finished in pine and white enamel and some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Theodor Schultz, 56 Kissling street, S. F. Location, east 41st avenue north of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Tile bath. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, J. Anderson, 423 16th avenue, S. F. Location, west 17th avenue south of Geary. Each will contain six rooms and bath. Interior finish pine and elm panels. Hardwood floors. Open fire paces and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

HOSPITAL HARDWARE.—Cost not stated. San Francisco. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. Bids were opened in the office of Architect Lewis P. Hobart by the Regents of the University of California for furnishing hardware for the University Hospital being erected at Fourth and Parnassus avenues. Bennet Bros. presented the lowest figure at $7,287. Following is a complete list of the bids received: A. W. Pike Co., $7,849, 30 days; Bennett Bros., $7,287, 120 days; Joost Bros., $9,058, 90 days; Charles Brown, $9,935, 90 days; F. G. Norman & Son, $8,578, 90 days; Palace Hardware Co., $9,750, 150 days.

APARTMENT HOUSE.—4 story and base, Class C. construction. Cost not stated. San Francisco. Architect, W. G. Hind, 46 Kearny St., S. F. Owner, Dr. Clyde S. Payne. The following contracts have been awarded for the construction of this building: R. De Luca, 2256 Jones St., grading and concrete; Mealey & Collins, 185 Stevenson St., brick work; Sunset Iron Wks., 1124 Folsom St., structural steel; James H. Pinkerton, 2266 Fulton St., plumbing; J. Marconi, 737 Green St., plastering; A. Huck, 59 Capp St., painting; Bartholme & Hartmanshenn, sheet

metal work. Contracts for other parts of the work to be let at once.

WAREHOUSE ALTERATIONS — 6 story and base, reinforced concrete, $30,000. San Francisco. Architect, Maurice E. Couchot, 110 Sutter St., S. F. Owners, Blum Estate. Location, northwest corner of Second and Brannan streets. Work will consist of increasing size of interior columns, raise steel frame on each floor, tying all columns and walls, and place six inch solid wood slab for floor with finish flooring t & g. Contracts will be awarded at once.

STORES.—Market, 1 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headmap, New Call Bldg., S. F. Owner Charles S. Howard. Location, north Bush, west of Mason, covering an area of 69½ by 86 feet. Will contain a floor and wainscot. Refrigerating plant. Patent store fronts. Exterior faced with cement plaster. Plans complete and figures being taken.

STORES AND OFFICES.—Alteration, 3 story and base, frame. Cost not stated. San Francisco. Architect, C. D. Clausen, Hearst Bldg., S. F. Owner, H. S. Bodley. Location, Mission, between 21st and 22nd streets. Will consist of interior finish, patent store fronts, marble bases and new plumbing and electrical work. Plans being prepared.

HOSPITAL WARD.—1 story reinforced concrete. Cost not stated. San Francisco. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, Letterman General Hospital, Presidio. Designed for an open air tubercular ward. Interior finish, pine. Special window sash and awnings. Clay tile roof. Exterior faced with cement plaster. Plans complete and specifications being written.

GARAGE.—2 story and base, reinforced concrete, $35,000. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. K. Bigelow. Location, north Bush, between Powell and Mason streets, covering an area of 87½ by 137½ feet. Construction fireproof. Inclines from basement and first floor. Special gasoline storage tanks. Marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

STEEL TOWER.—Cost not stated. Honolulu, Hawaii. Engineer's name not given. Owners, United States Government. Sealed proposals will be received by the lighthouse inspector, Honolulu, Trritory of Hawaii, until March 1, 1916, for furnishing one 72-foot galvanized structural steel tower, delivered freight on board Honolulu, Territory of Hawaii. Further information may be had on application to the lighthouse inspector, Honolulu.

City Bids Opened.

Bids Opened For Portion of Church Street Municipal Line and For Trolley Poles on Same.

Bids were opened by the San Francisco Board of Public Works at the Monday session for the construction of that portion of the Church Street Municipal Road, between 16th and 18th streets, and also for trolley poles for the same road.

The Western Motor Drayage Co. presented the low bid for constructing the road at approximately $57,421. John Spargo was low for the trolley poles at $6,590. Twenty-three items were included in the construction of the Church street line and the low men bid as follows:

Low Men on Church Street Road.

Western Motor Drayage Co. (1) $3.90; (2) $517.69; (3) $637.69; (4) $401.80; (5) $266.16; (6) $400; (7) $.48; (8) $.13½; (9) $.15; (10) $.316; (11) $77.73; (12) $77.73; (13) $138; (14) $138; (15) $.12; (16) $.18½; (17) $.42; (18) $.06; (19) $.096; (20) $.12; (21) $.12; (22) $.036; (23) $.12. Total, $57,421.

Low Man For Trolley Poles.

John Spargo (1) $52; (2) $68; (3) $75; (4) $51; (5) $66; (7) $54; (8) $.0. Total, $6,590

OAKLAND AND ALAMEDA COUNTY.

STREET IMPROVEMENT — $100,000. Oakland, Cal. Engineer, County Surveyor Haviland, Oakland. Owners, Alameda County. At the last meeting of the County Supervisors County Surveyor Haviland was instructed to prepare plans for the improvement of East Fourteenth street between San Leandro and Hayward, which has been declared a boulevard. The distance to be improved is about 5 miles in length.

STREET IMPROVEMENT — Cost not stated. San Leandro, Alameda Co., Cal. Engineer, City Engineer, R. H. Goodwin, San Leandro. Owners, City of San Leandro. At the last meeting of the Board of Trustees City Engineer R. H. Goodwin filed a set of plans and specifications for the improvement and extension of Sybil avenue to the Foothill Boulevard, which was adopted. Bids will be called for shortly on this work.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, G. W. Glautz, 1464 87th avenue, Oakland. Location, east 88th avenue north of Borch. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIRENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, G. A. Headburg, 3348 14th avenue, Oakland. Location, east Midvale north of California. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $1,750. Berkeley, Alameda Co., Cal. Architect, none. Owner, A. Osborn, 1224 Spruce street, Berkeley. Location, east Aeton north of Francisco. Will contain five rooms and bath. Interior finish pine and hardwood. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, A. T. Anderson, 2337 Lockwood street, Oakland. Location, south Arizona east of Maple. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Piedmont, Alameda Co., Cal. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, Nova Piedmont. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $3,200. Oakland, Cal. Architect, Merrill Newsom, 1743 Broadway, Oakland. Owner, E. L. Higgins. Location, Thomas street. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. Piedmont, Alameda Co., Cal. Architect, Claude B. Barton, First Trust Bldg., Oaklanad Owner, Mrs. Pendleton. Location, El Cerito Ave. Interior finish, pine and hardwood with white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and sub figures being taken.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal., Architect Charles W. McCall, Central Bank Bldg., Oakland. Owner, Walter H. Packard, 1020 Broadway, Oakland. Location west Thomas, south of Prospect. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire place and furnace heat. Automatic water heater. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCES — Two 1 story and meda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oaklaand. Owner, J. D. Garretson, 610 Thomason Bldg. Location, Monte Vista avenue. Will contain five rooms each with bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. Oakland, Cal. Architect, H. R. Gutterson, 80 Post St., S. F. Owner, Miss Martha Ames. Location, Crocker Oak Tract. Will contain ten rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels, tile or brick. Hot water circulating system. Exterior covered with cement plaster. Plans being figured.

STORES.—1 story and base, brick. Cost not stated. Oakland, Cal. Archi-

tects, Welsh & Carey, Merchants National Bank Bldg., S. F. Owner, A. Pallidini. Location, Washington St., covering an area 50 by 75 feet. Will be arranged for a modern fish market. Interior finish pine and tile. Tile floor. Patent store front and marble base. Exterior faced with white enamel brick. Plans being prepared.

STORES AND LOFTS.—8 story and base. Class A construction. Cost not stated. Oakland, Cal. Architect, Walter J. Mathews, 927 Broadway, Oakland. Owner, Charles Jurgens, leased to John Breuner Co. Location northwest 15th and Clay Streets. Complete steel frames, brick exterior walls, faced with pressed brick and terra cotta. Steam heat, elevator service and patent store fronts. Marble bases. Interior finish, pine and hardwood. Plans being prepared.

SCHOOL—Addition, two 1 story wings, frame. Cost as follows. Oakland, Cal. Architect, J. J. Donovan, Dalziel Bldg., Oakland. Owners, City of Oakland. Christensen Bros. submitted the low figures for work at the Highland School and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

APARTMENT HOUSE.—2 story and base, frame, $8,000. Oakland, Cal. Architect, M. L. Newsom, 1748, Broadway, Oakland. Owner, John F. Whalen. Location, southwest 41st and Manila. Will contain sixteen apartments of two and three rooms. Interior finish pine. Wall beds and private baths. Steam heat and hot water system. Bath, composition floors. Exterior covered with rustic and cement plaster. Plans complete and sub figures being taken.

APARTMENT HOUSE AND STORES. —2 story and base, frame, $10,000. Oakland, Cal. Architect, W. M. Greuner, Thomson Bldg., Oakland. Owner, V. Z. Rutherford. Location, Linda and Piedmont. Will contain two stores and six modern apartments of two and three rooms. Interior finish, pine and redwood. Wall beds. Hot water supply. Bath rooms, tile. Patent store fronts. Exterior covered with cement plaster. Plans are being prepared and work will be done by Day Labor.

HALL OF RECORDS.—Addition, 2 story and base, brick. Cost not stated. Oakland, Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Work will consist of the addition of a two story wing. Interior finish, pine. Steam heating system extended from present building. Some metal trim and desk. Exterior faced with pressed brick. Plans being prepared.

THEATRE.—1 and 2 story and base, brick and steel. Cost not stated. Oakland, Cal. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, H. C. McPike Estate. Location east Franklin, north of 15th. Construction will be fireproof. Interior finish pine and ornamental plaster. Heating system, ventilating and special electric work. Exterior faced with cement plaster and pressed brick. Plans complete and figures to be called for at once.

COLLEGE CONSTRUCTION.—Granite, etc. Cost not stated. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission St., S. F. Owners, Regents of the University of California. Bids will be opened on February 7th for heating and ventilating and Electric work on Benj. Ide Wheeler Hall and granite work on the esplanada of the Jane K. Sather Tower. Plans can be had from the office of the Comptroller at Berkeley. An official proposal appears in another column of this issue.

SCHOOL FIRE ESCAPE. — $1,402. Berkeley, Alameda Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Robert S. Levy Co., 110 Jessie St., S. F., submitted the only bid, and will be awarded the contract for installing fire escapes on the Manual Arts building of the California School for the Deaf and Blind.

LIBRARY STACKS.—Metal. Cost not stated. Hayward, Alameda Co., Cal. Architect's name not given. Owners, Town of Hayward. Bids will be received until February 7th for the installation of metal library book stacks in the new public library. Plans can be secured from the City Clerk.

Contracts Awarded.

LIGHTING SYSTEM—$22,300. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Pacific Fire Extinguisher Co., 507 Montgomery street, S. F. Contract price, $22,300. Contract covers only lighting system in District No. 1 in Claremont.

U. C. Open Bids For Hospital Hardware.

Six Firms Submit Figures For Finish Hardware for University Hospital. Bennett Bros. Low.

Bids were opened today in the office of Architect Lewis P. Hobart by the Regents of the University of California for furnishing the finish hardware for the University Hospital being erected at Fourth and Parnassus avenues. Bennett Bros. presented the lowest figure at $7,287. Following is a complete list of the bids received:

U. C. Hospital Hardware.

Bidder	Amount	Days
A. W. Pike Co.	$7,849.00	30
Bennett Bros.	7,287.00	120
Joost Bros.	9,058.51	90
Charles Brown	9,975.00	90
F. G. Norman & Son	8,578.00	90
Palace Hardware Co.	9,750.00	150

Bids Received For Highland School Job

Figures for Frame Addition Taken Under Advisement—Christensen Bros. Low on Work.

Bids were opened at the Wednesday meeting of the Oakland Board of Education for the construction of an addition to the Highland School. The work consists of two one-story frame wings. Plans were prepared by Architect John J. Donovan, Dalziel Bldg. Following is a complete list of the bids:

		Deduct for one wing
Robinson & Place	$5,975	$2,500
Alfred Olson	6,177	2,934
J. C. Nielsen	6,447	3,055
Christensen Bros.	5,555	2,550
R. W. Littlefield	5,947	2,600
W. G. Thornalley	5,850	2,700
Geo. Nall	6,700	3,100
D. F. Harris	6,490	3,000

The bid of P. N. Schmidt was lost and will be opened at the next regular meeting. Mr. Schmidt stated to a Builder representative that his bid was $5,743.35 with a deduction of $2,640. Action on the award was postponed until the next meeting of the Board of Education.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET IMPROVEMENTS. — Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the plans and specifications for grading, paving, curbing, and sewering and the construction of storm water drain ditches on Bay street were adopted. Bids on this work will be called for shortly.

RESIDENCE — 2 story and base, frame, $10,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Miss Edith S. Cheesbrough. Location, Brower Tract. Will contain ten rooms, several baths and sleeping porches. A separate garage will be erected on the property. Interior finish, pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels of tile or brick. Bath rooms, tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and sub figures being taken.

APARTMENT HOUSE—2 story and base, frame, $6,500. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, George Bebee, Burlingame. Will contain four modern apartments of four rooms and bath. Interior finish pine and elm panels. Some hardwood floors. Bath rooms composition floors. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken.

RESIDENCE — 1 story and base, frame, $5,000. San Mateo, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name withheld. Location, San Mateo Drive and Villa Terrace. Will contain eight rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors, open fire place and tile or brick mantel. Furnace heat. Automatic water heater Bath rooms tile. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES— 1and 2 story, frame, cost as follows. San Jose, Santa Clara Co., Cal. The following Day Labor jobs are reported as about to be started in San Jose: J. A. Wagner, 245 South 17th street, 6 room cottage, $2,000; A. D. York, Y. M. C. A. Bldg., 5 room cottage, $1,600, and E. A. Bishop, 660 9th street, 4 room cottage, $1,450.

RESIDENCE—1 story and base, base, frame, $3,000. San Mateo, San Mateo Co., Cal. Architects, Edwards & Norberg., Bank Bldg., Burlingame. Owner, Charles Stevenson. Location, Highland avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic

and cement plaster. Plans complete and figures being taken.

SCHOOLS—Two 1 story and base, hollow tile, $15,000 each. Redwood City, San Mateo Co., Cal. Architect, N. W. Sexton, Hearst Bldg., S. F. Owners, Redwood City School District. Each will contain four class rooms and an assembly hall. Interior finish, pine. Maple floors. Modern school plumbing and slate blackboards. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—1 story and base, frame, $12,000. San Bruno, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. Will contain four class rooms. Interior finish, pine. Stoves for heating. Modern plumbing and slate blackboards. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

LIBRARY—1 story and base, brick, $10,000. South San Francisco, San Mateo Co., Cal. Architect, W. H. Weeks, 75 Post St., S. F. Owners, Town of South San Francisco. A resolution in reference to Contractors O'Rourke & Brady not finishing the construction of the new public library building on the civic center site according to contract and authorizing its completion by the architect, W. H. Weeks, the cost of same to be deducted from money due Contractors O'Rourke & Brady, was adopted.

STORES AND OFFICES.—2 story and base, reinforced concrete. $15,000. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, Judge Lamb and F. D. Lawton. Location, Burlingame Ave. and Park Road, covering an area og 50 by 100 feet. Will contain stores on the first floor and offices and apartments above. Interior finish pine and southern gum. Patent store fronts, marble bases and tile vestibules. Exterior faced with cement plaster. Plans being prepared.

STORES.—2 story and base, reinforced concrete. $10,000. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, City Attorney Kirkbride. Location, Burlingame Ave. Will contain one store and a number of modern offices. Interior finish, pine and southern gum. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

THEATRE AND STORES.—2 story and base, reinforced concrete. Cost not stated. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Mr. Gates. Will contain a large and modern motion picture theatre on the first floor and two stores. Upper floor arranged for offices. Interior finish, pine and ornamental plaster. Patent store fronts and marble bases. Ventilation and special electric wiring. Exterior faced with cement plaster. Plans being completed.

STEEL TANK.—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Work will be started shortly by the Southern Pacific Co. for a new 60,000-gal. steel tank to be erected just north of the station near the Washington street switch. The foundation will be of concrete, etc., the supports of steel and the tank will be of galvanized iron. It will be about 50 feet high.

Contracts Awarded.

STREET PAVEMENT, GUTTERS AND CURBS—$36,938.36. South San Francisco, San Mateo Co., Cal. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. Contractors, D. O. Church Co., Foxcroft Bldg., S. F. Contract price, $36,938.36.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

CHURCH.—1 story and base, frame, $7,500. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Fairfield Methodist Church. Designed in the Mission style and will contain a main auditorium and Sunday School rooms. Interior finish pine and redwood. Some art glass windows. Exterior covered with cement paster. Plans complete and figures being taken.

IRRIGATION CANAL—Cost not stated. Byron, Contra Costa Co., Cal. Engineer's name not given. Owners, Byron Irrigation District. The construction of a canal along the county road west of Byron, thence along the county road lining the McCabe property south of Byron to the railroad culvert, is now being considered by the directors of the Byron-Bethany Irrigation District.

SCHOOL—1 story, frame. Cost not stated. Gold Ridge School District, Sonoma Co., Cal. Architect none. Owners, Gold Ridge School District. Will contain two class rooms. Interior finish, pine. Exterior shingles or cement plaster. Plans complete and figures being taken. Bids close on February 7th. Plans and specifications from County Superintendent of Schools, Santa Rosa.

TANKS, ETC. — $250,000. Martinez, Contra Costa Co., Cal. Engineer, Engineering Dept. Shell Oil Co., 343 Sansome St., S. F. Owners, Shell Oil Co. The Lacy Manufacturing Co. of Los Angeles has the contract at $250,000 for the erection of 14 tanks, each to have a capacity of 55,000 bbls. for the Royal-Dutch Shell Co.

STORES AND OFFICES.—2 story and base, brick. $15,000. Richmond, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald Ave., Richmond. Owner. Owner, Dr. W. E. Cunningham. Location, Ninth and Macdonald Aves. Will contain stores and a number of modern offices. Interior finish, pine and hardwood, with some white enamel. Steam heat and oil burning equipment. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and ready for figures.

HOTEL.—3 story and base, brick and steel. Cost not stated. Pittsburg, Contra Costa Co., Cal. Architect, A. W. Cornelius, Merchants' National Bank Bldg., S. F. Owners S. Caruse and Bro. Will contain a garage on the first floor and modern hotel rooms on the upper floors. Interior finish pine. Oil burning equipment. Patent store fronts. Structural steel contract let to Brode Iron Works, S. F., for $1,258. Other parts of the work to be done by Day Labor. Exterior faced with cement plaster.

HOTEL.—2 story and base, frame, $11,000. Hercules, Contra Costa Co., Cal. Architect, James T. Narbett, Richmond. Owners, Hercules Powder Co. The following bids for the construction of this building have been taken under advisement. Mathew Morton, 1300 Alcatraz Ave., Berkeley, $13,147; Carl Overaa, $13,511; J. S. Hannah, $11,888; Williams Bros. & Henderson, $11,130; Oscar Johnson, $11,220; E. D. Sharp, $11,700.

PUMPING SYSTEM. Cost not stated. Colusa, Colusa Co., Cal. Engineer's name not given. Owners, Rice Land and Product Co., Colusa. The Rice Land and Product Company, which purchased the Blevins and Mallon plantation, is making arrangements for the installation of a larger pump at the Sacramento River to double the amount of water pumped last season, and extend the irrigation system further westward and irrigate 2,000 acres owned by the Sacramento Valley Irrigation Co. and California-Idaho Land Company, which will be planted to rice.

Contracts Awarded.

SCHOOL—Addition, 1 story frame. $1,788. Richmond, Contra Costa Co., Cal. Architect's name not given. Owners, City of Richmond. Contractor, E. W. McCausland, San Pablo. Contract price, $1,738.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CONSTRUCTION — Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids will be opened on February 10th at 2 p. m. for the construction of Highway No. 1, Division No. 5-A; Section No. 2, Division No. 5-B, and Division No. 7, Section No. 1 (Hanford to Hardwick.) The quantities to be bid on are as follows: 1, 7,500 cubic yards of excavation (including barrow). 2, 675,578 sq. ft of two and one-half inch base (surface area). 3 or 4, 675,578 sq. ft. of 1½ inch Topeka or Warrenite top. 5, 200 lineal feet standard guard fence.

STREET PAVING—Cost not stated. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. The City Trustees have ordered plans and specifications prepared for the paving of 16 blocks in this city. On adoption of the plans a call for bids will be issued as it is the intention of the officials to have the work under way as soon as possible. The streets to be improved are as follows: Three blocks on Acequia street from Court street west; 2 blocks on Oak street from Court street to Garden street; 3 blocks on East street (The (Santa Fe) from Center street to Mineral King avenue; North Church street from Oak street to N. E. First avenue.

BRIDGE—Reinforced concrete. Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Owners, City of Modesto. At the last meeting of the board of directors of the Modesto Irrigation District the directors granted a permit to the city of Modesto to construct a bridge over lateral four at the north end of Eighth street to open that thoroughfare to the state highway and to give direct communication between the highway and the West Side District. Further mention will be made of this work.

BRIDGE—Reinforced concrete. $2,500. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Own-

ers, Kings County. At the last meeting of the County Supervisors the only bid for the construction of the bridge across Kings River south of Roy station was submitted by H. Irwin Walker and was rejected. The bid was $2,240 for the labor only, and as the total estimate on the bridge for both labor and material had been only $2,500, the board considered the bid too high. Whether the work will be done by Day Labor or whether new bids will be called is not known at this time.

RESIDENCE — 2 story and base, frame, $5,720. Fresno, Fresno Co., Cal. Architect, none. Owner, C. G. Eberhart, Weldon St., Fresno. Location, Bloomington Addition. Will contain eight rooms, baths and sleeping porch. Interior finish, pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room, tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

BANK.—1 story and base, reinforced concrete, $10,000. McFarland, Kern Co. Cal. Architect, A. L. Rogers, Visalia. Owners, First National Bank of McFarland. Construction will be fireproof, covering an area of 35 by 75 feet. Besides the offices and public space there will be safety deposit vaults and offices of the president. Interior finish, pine and hardwood. Tile floor. Exterior faced with cement plaster. Plans complete and figures being taken.

BRIDGE REPAIRS.—Cost not stated. Visalia, Tulare Co., Cal. Engineer, County Surveyor, Visalia. Owners, Tulare County. A call for bids will be issued by the City Trustees in the near future for repairing the bridges destroyed by recent high waters. The bridges to be repaired will include the approach to the Three Rivers bridge as well as several smaller bridges. Further mention will be made of this work when bids are called.

BRIDGE.—Steel and concrete. Cost not stated. Visalia, Tulare Co., Cal. Engineer, County Surveyor, Visalia. Owners, Tulare County. Bids will be opened on February 7th for the construction of a bridge across Kaweah River near the place known as the Cottage post office, on Road No. XLIX on the east side of Section 12, Township 18 South, Range 26 East, Mount Diablo base and Meridian, in the 3rd Supervisorial District.

FURNISHING SAND.—Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids will be received up to 2:30 p. m., Feb. 10th, by the County Supervisors for 35,000 tons of sand for county highway work. Further information may be had from the Clerk of the Supervisors at Hanford.

STREET IMPROVEMENT. — Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Council has passed resolutions of intention providing for the improvement of the following streets: That 1st St., in the City of Fresno, from the north line of Ventura Ave. to the north line of Tulare Ave., and that Kerckoff Ave. from the east line of 1st St. to the W. line of 8th St., be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 1½ inch Warrenite wearing surface laid upon 2½ inch asphalt concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. That Santa Fe Ave., in the City of Fresno, from the easterly line of Kern St. to the Friant Branch of the Southern Pacific Railroad, be graded, guttered and curbed with cement concrete curb and gutter, and paved with a cement concrete base, 5 inches thick and Bithulithic wearing surface, 2 inches thick; also that there be constructed 2 corrugated iron culverts and cast iron return culverts. That Ventura Ave., in the City of Fresno, from the west line of Angus St. to the east City Limits, be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 2 inch Bitulithic wearing surface laid upon 5 inch cement concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. Further mention will be made of this work.

IRRIGATION PROJECT — Cost as follows. Madera, Madera Co., Cal. Engineer, R. L. Hargrove, Madera. Owners, Madera Canal and Irrigation Co. At the last meeting of the Madera Irrigation Bureau Directors Engineer R. L. Hargrove of the Madera Canal and Irrigation Company explained to the directors his plans for building a dam on the San Joaquin River and storing water of the river and other streams. Plans showing the proposed dam and the proposed main canal were considered by the directors, but action was postponed until the next meeting. Hargrove stated that a dam 230 feet high and 2,400 feet wide would hold 300,000 acre feet of water. A dam 100 feet high and 1,000 feet wide would hold 30,000 acre feet of water. The 230-foot dam would cost four or five million dollars, and in the opinion of Mr. Hargrove was too large a project for an irrigation district to tackle alone. The dam 100 feet high would cost in the neighborhood of $500,000. Further mention will be made of this work when the directors have accepted the plans of Hargrove.

POST OFFICE.—2 story and base, Class C. construction. $53,400. Bakersfield, Kern Co., Cal. Architect, Supervising Architect, Washington, D. C. Owner, United States Government. An appropriation amounting to $53,400 has been made for constructing the Federal postoffice at Bakersfield, Cal. Construction will start shortly.

LIBRARY.—1 story and base, brick and concrete. $10,000. Turlock, Stanislaus Co., Cal. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, Town of Turlock. Will contain main reading rooms, stack rooms and office of the librarian. Interior finish, pine and hardwood with some maple floors. Steam heat. Metal book stacks. Exterior faced with cement plaster or pressed brick. Plans complete and figures belog taken. Bids close February 10th. Plans from the architects or City Clerk.

Contracts Awarded.

LIBRARY. 1 story and base, brick and concrete. $7,291. Dinuba, Tulare Co., Cal. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, City of Dinuba. Contractor, Ben Brown, Dinuba. Coontract price, $7,291.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

SUMP CONNECTION—$109,000. Sacramento, Cal. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Estimates furnished by City Engineer Miller to the City Commissioners place the cost of connections between Sump No. 1 and Sump No. 2, to accommodate the dry weather flow, at $109,000. Miller stated in his estimate that the grade is so flat that a 51-inch sewer will be necessary to carry the flow. The line would go south to near the Sacramento Southern Railway line and thence south to Station No. 2 Action will probably be taken by the Commission at their next meeting.

SEWER CONSTRUCTION — Cost not stated. Sacramento, Cal. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Plans have been completed and bids will be called for shortly for the following sewer construction: 8, 10, 14, 16, 18, 20, and 22 inch vitrified ironstone. Pipe to be laid in Freeport road and in the West Curtis Oaks District.

STREET PAVING—$3,508.04. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council at its last meeting approved specifications and ordered bids called for repairing the asphalt pavement on Center street from Main to North; Weber avenue from Commerce to East street; Hunter street from Weber avenue to Washington street, from Hunter to American; Market street from Center to East; California street from Hazelton to North; Sutter street from Channel to Lafayette. Plans for this work may be secured at the office of the City Clerk at Stockton.

IRRIGATION PUMP—Cost not stated. Yreka, Siskiyou Co., Cal. Engineer, none. Owners, A. L. Harlow et al, Yreka. A. L. Harlow et al have purchased land of the Mt. Shasta Land and Irrigation Co. and are planning the installation of another 500 horse power electric pump. The additional pump will enable the owners to place under irrigation approximately 10,000 acres of land.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, W. D. McKoy, 3029 S street, Sacramento. Location, 3117 E street. Will contain six rooms and bath. Interior finish, pine. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

LIGHTING SYSTEM.—$2,700. Red Bluff, Tehama Co., Cal. Engineer, City Engineer, Red Bluff. Owners, City of Red Bluff. At a special meeting of the board of trustees, plans and specifications were adopted for a street lighting system for Main St., from Elm to Hickory Sts. The specifications call for electroliers to be placed at each corner of the intersections of two streets, and one on each side of the block. The lighting system used will be the Ornamental Luminous Arc lamps. Bids are now being taken.

POSTOFFICE PAINTING.—Cost not stated. Chico, Butte Co., Cal. Architect, Supervising Architect, Washing-

on, D. C. Owners, United States Government. George Kirk, in charge of construction at the Chico post office, states that the bids of Vincent Donovan of San Francisco and of F. A. Seak of Grass Valley for the interior painting of the new Federal building have been forwarded to Washington, D. C.

Only One Bid On State Job.

Robert S. Levy & Co. Submit Only figure for fire Escape at Berkeley School for Deaf.

(By Special Wire.)

SACRAMENTO, CAL., Jan 27, 1916.—Only one bid was received by the State Department of Engineering for the construction of fire escapes on the Manual Arts Buildings at the California School for the Deaf and Blind at Berkeley. Robert S. Levy & Co., 110 Jessie street, San Francisco, submitted a figure of $1,402.50 and will probably be awarded the contract.

LOS ANGELES AND SOUTHERN CALIFORNIA

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, C. D. Wagner, Story Bldg., L. A. Owner, Mrs. L. O. Crenshaw. Location, Victoria Drive. Will contain 13 rooms, several baths and sleeping porch. Interior finish, pine and hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Hot water circulating system. Bath rooms, tile. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, concrete. Cost not stated. Los Angeles, Cal. Architect, Harold Cross, 123 South Dillon St., L. A. Owner, Mack Sennett. Location near Keystone. Will contain a number of rooms besides private storage space. Interior finish pine and hardwood, with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water system. Bath rooms tile and equipped with showers. Exterior faced with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, hollow tile construction. Cost not stated. Los Angeles, Cal. Architect, W. A. McCutcheon, 103 North Kingsley Drive, L. A. Owner, O. E. Brown. Location, Romona Acres. Will contain 16 rooms, several baths and a separate garage. Interior finished in pine and hardwood, with some white enamel, and hardwood floors. Furnace heat and hot water system. Bath rooms tile. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—2 story and base, reinforced concrete. $110,000. El Centro, Imperial Co., Cal. Architect, Samuel B. Zimmer, El Centro National Bank Bldg., El Centro. Owners, El Centro School District. Will contain a large number of class rooms, principal's office, library and auditorium. Interior finish, pine with maple floors. Steam heat, oil burning plant, vacuum cleaning and slate blackboards. Complete steel frame, concrete floors, walls and stairways. Exterior faced with cement plaster. Plans complete and figures being taken. Bids open on February 11th. Plans at office of the architect.

TELEPHONE PLANT.—2 story and base, brick, $32,000. El Centro, Imperial Co., Cal. Architect's name not given. Owners, Imperial Telephone Co. The Imperial Telephone Company plans to expend $32,000 shortly in the erection of a modern telephone plant and building on State St., between 6th and 7th streets, to be completed by April 1st. J. F. Bexdecheck is manager of the company.

AMUSEMENT PIER AND PAVILION.—Concrete and frame, $90,000. Manhattan Beach, Los Angeles Co., Cal. Architects, Train & Williams, Exchange Bldg., L. A. Owners, Manhattan Beach. The pavilion will contain a dancing pavilion, booths, etc., on the main floors, and dressing rooms for bathers in the basement. It will rest on concrete piles, frame superstructure, cement plaster exterior, composition roof, plumbing, wiring, hardwood, flooring. Plans are being prepared.

CANNERY.—1 story and base, frame and corrugated iron. $28,500. Van Nuys, Los Angeles Co., Cal. Architects, Jeffrey & Schaefer, Van Nuys Bldg., L. A. Owners, Anderson & Barangrower Co. Will cover an area of 100 by 200 feet. No interior finish. Special machinery. Exterior covered with corrugated iron. Plans complete and figures being taken.

HOTEL.—2 story and base, reinforced concrete. $20,000. Calexico, Imperial Co., Cal. Architect, Samuel B. Zimmer, El Centro National Bank Bldg., El Centro. Owners, Frank and Dana Weed. First floor will contain stores and upper floor modern hotel rooms. Interior finish, pine and redwood. Hot water system. Bath rooms, tile. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

CLINIC.—1 and 2 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect's name not given. Owner, O. T. Johnson. Location, Castelar street, covering an area of 50 by 120 feet. Will contain office, operation and consulting rooms. Interior finish, pine and tile. Steam heat and hot water system. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

LODGE HALL—2 story and base, brick. $14,000. Pomona, Los Angeles Co., Cal. Architect, C. E. Wolfe, Pomona. Owners, Knights of Pythias Hall Association. Contractor, J. W. Graves, Pomona. Contract price, $14,000.

HOTEL—2 story and base, frame and plaster. $50,000. Atascadero, San Luis Obispo Co., Cal. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Atascadero Colony. Contractors, F. O. Engstrom Co., 5th and Seaton streets, L. A. Contract price $50,000.

PORTLAND AND OREGON

VIADUCTS—Reinforced concrete and steel, $500,000. Portland, Ore. Engineer, City Engineer, Portland. Owners, City of Portland. Plans have been completed for the seven proposed concrete viaducts to span Sullivan's Gulch on the East Side over the O.-W. R. & N. Co.'s tracks. They will located on Sandy Boulevard at E. 47th, E. 53rd, E. 60th, Halsey, E. 74th and E. 82nd streets. The railroad company will pay 60 per cent of the cost of construction. Bids will be called for shortly.

SCHOOL.—3 story and base. Mill construction. $40,000. Portland, Ore. Architect, J. Ponnes, Chamber of Commerce Bldg., Portland, Ore. Owners, Oregon Agricultural College. Designed for a forestry building and arranged for class rooms and machinery rooms. Exterior faced with pressed brick. Plans complete and figures being taken.

RECLAMATION WORK — $97,970. Klamath Falls, Ore. Engineer, Don J. Zumwalt, Klamath Falls. Owners, Klamath Falls Drainage District. According to the report of Don J. Zumwalt, project engineer for the Klamath Drainage District of this city, diking is the most feasible manner of reclaiming the 27,500 acres of marsh land in the district. This plan contemplates the construction of 32.4 miles of dikes at a total cost of approximately $97,970, on both sides of Klamath Straits, beginning at the railway embankment. Further mention will be made of this work.

AUDITORIUM.—1 story and ase, mill construction. Cost not stated. Bend, Ore. Architect, W. H. Downing, Bend, Ore. Owners, City of Bend. Will contain main auditorium, office, smaller meeting rooms and space for mechanical equipment. Interior finished in pine with some hardwood. Steam heat and oil burning equipment. Exterior faced with pressed brick and terra cotta. Plans complete and figures being taken.

Contracts Awarded.

VIADUCT—Reinforced concrete, $33,098.20. Portland, Ore. Engineer, City Engineer, Portland. Owners, City of Portland. Contractors, Giebsch & Joplin, Portland. Contract price, $33,098.20.

SEATTLE AND WASHINGTON

BRIDGES—2, steel and concrete. Cost as follows. Seattle, Wash. Engineer, County Surveyor A. P. Denton, Seattle. Owners, King County. County Engineer A. P. Denton has been instructed to prepare plans for the construction of two bridges, one at Fall City and the other at Stossel. Both spans will be steel on concrete piers, the Stossel bridge being 209 feet long, costing $17,000, and the Fall City being about 250 feet, costing $35,000. Bids will be called for shortly.

APARTMENT HOUSE—4 story and base, brick and concrete, $50,000. Seattle, Wash. Architect, W. W. Noyes, New York Block, Seattle. Owners, Sparkman & McLean. Location, Melrose avenue between Pike and Pine, covering an area of 53 by 108 feet. Will contain 23 suites of two rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and automatic elevator. Hot water system. Oil burning plant. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans being prepared.

MARKET.—2 story and base, brick and concrete. $50,000. Tacoma, Wash. Architects, Heath & Gove, National Realty Bldg., Tacoma. Owners, Frye-Bruhn Co. Location, Broadway, between 11th and 12th streets, covering an area of 60 by 120 feet. Interior finish pine and tile with tile floors. Refrigerating plant. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

HOTEL.—3 story and base; brick, $40,000. Concrete, Wash. Architect, W. W. Noyes, New York Block, Seattle. Owner's name withheld. Will cover a ground area of 60 by 120 feet and will contain a number of single rooms with and without private baths. Interior finish, pine. Steam heat and hot water system. Tile bath room. Exterior faced with pressed brick. Plans being prepared.

LARGER PRODUCTION OF MANGANESE IN 1915.

The manganese ore and metal industries continue to undergo readjustment, but the impetus given the domestic industry on account of the shortage of foreign ore has not brought forth the production that had been expected. Important exploratory work and preparations for milling have been carried out at several mines in Virginia, Tennessee, Colorado, and California, but except in the case of one mine this has not yet resulted in production. A close estimate of the production in the United States for 1915 cannot be made, but it is very doubtful that it exceeded 6,000 tons, as compared with 2,635 tons produced in 1914, according to D. F. Hewett, of the U. S. Geological Survey. The shortage of ore is indicated by the rise in domestic prices. During 1915 ore containing 50 per cent manganese and adapted to making ferromanganese has sold as high as $22.50 per ton, which compares with $12 per ton, the price paid a few months before the war began. The shortage in high-grade ores for use in the manufacture of flint glass and dry batteries has been keenly felt and several dry-battery plants have been forced to close down. One producer in San Miguel County, Colorado, reports the sale of a small tonnage of ore containing 80 per cent manganese dioxide and less than 1 per cent iron, at $65 a ton f. o. b. at point of shipment.

One consequence of the war has been the great change in the sources of imports into the United States. For the three years prior to 1915, India supplied slightly more than one-third the imported tonnage which averaged 309,682 tons a year, while Russia and Brazil supplied about equal parts of the remainder. During the first ten months of 1915, Brazil supplied 181,258 tons out of the total of 192,286 tons imported. The receipts from India were about one-twelfth normal and from Russia, negligible. In other words, receipts from Brazil were more than twice the average for the three preceding years and partly made up for the failure of supplies from Russia and India. The most recent information up to June, 1915, shows that although the Indian mines are being operated, the production is about one fourth that of the preceding year.

Even under normal conditions in the United States, about one-half of the supply of ferromanganese is imported and the other half is manufactured largely from imported ores. The restrictions placed by England upon the exports of ferromanganese greatly reduced the imports for the first six months of 1915, although they were normal during the next three months. For the first nine months of 1915 the imports were 40,863 tons, compared with 62,333 tons for the same period of 1914 and 99,752 tons for the same period of 1913. This shortage has forced two important steel producers, Jones & Loughlin Steel Co., of Pittsburgh, Pa., and Maryland Steel Co., Sparrows Point, Md., to devote furnaces to the manufacture of ferromanganese. This is noteworthy because most of the domestic ferromanganese has heretofore been made by two subsidiaries of the United States Steel Corporation, although several more firms have occasionally contributed. During the year the price of ferromanganese has almost steadily risen from $70 a ton in January to $115 a ton in December. Small lots are reported to have been sold at $120 a ton in December.

Although the activity of several mines may enable the production of 1915 to be trebled or quadrupled in 1916, there is little prospect that domestic deposits will make more important contributions of ore. Manufacturers of ferromanganese, as well as of dry batteries and flint glass, must continue to look to foreign countries for most of their ore supplies. Unless important new sources of ore are found, there is little prospect for reduction of prices of ores and ferromanganese to the average of previous years until the end of the European war. Efforts are being made to conserve during refining the manganese contained in raw pig iron, thereby reducing the amount of ferromanganese that must be added to make steel. If these efforts are successful, they will mark an important advance in steel metallurgy.

SEEK TO RESTRAIN EMPLOYEES.

Court Asked to Frustrate Activities of War Employment Agents.

George A. Ohl & Co., Newark, N. J., founders, machinists and manufacturers of machines for sheet metal workers, have resorted to the Chancery Court of New Jersey to prevent some of their employees from leaving their employ to obtain higher wages in plants making munitions. The case is an outcome of activity on the part of agents representing munitions manufacturers who are offering increased wages as an inducement for machinists already employed to go to the munitions shops. In most of the smaller manufacturing towns the local newspapers are printing advertisements stating that hands of one kind or another are wanted at good wages. In some cases no firm is mentioned, merely that Mr. ——— can be interviewed at a local hotel.

George A. Ohl & Co. had a strike at their plant a short time ago, and the terms of settlement specified that the agreement reached should hold for one year. The company considered therefore that it could safely proceed with contracts to supply the machinery of its manufacture, and depend on its employees to perform their part. Later, the agents of the munitions makers appeared and some of the company's men sought other employment.

Ohl & Co. thereupon applied to the Chancery Court to prevent a machinist from leaving their service, and Vice-Chancellor Howell issued an injunction restraining the workman from entering the employ of another firm. On December 21, however, Vice-Chancellor Stevens discontinued the injunction, holding that the trial might not ensue for some time, and that it would not be just to deprive the workman from a livelihood in the meantime. A suit in chancery was brought for the reason that most of the workmen have no property, and nothing can be recovered from the loss sustained by their leaving Ohl & Co. With regard to loss, the company states that the breaking-in of new men to work with which they are unaccustomed would be costly to the firm.

As matters now stand, while the court can prevent the workmen, who are subject to the agreement reached with the ending of the strike, from giving their services to other firms, it cannot compel them to adhere to their contract and work for Ohl & Co. The company intends to push the suit to a finish, asserting that manufacturers should be protected under such circumstanees, as under existing conditions the execution of their contracts is most uncertain. A member of the company expresses the opinion that the high wages paid by munitions makers will be a cause of regret when the war and present abnormal conditions come to an end.

STEEL TOWER MOVED BY LIGHT-HOUSE BUREAU.

Important changes in the arrangement of the harbor lights at Sheboygan, Wis., due to breakwater improvements by the United States engineers, have recenty been completed by the United States Bureau of Lighthouses. An interesting feature was the removal of the entire cylindrical steel tower from the old north pier and its replacement on a concrete foundation on the new breakwater.

The weight of the tower is approximately 70 tons. The moving of the structure was by means of a scow having the dimensions 35 by 120 feet. It was towed to the breakwater by a harbor tugboat and transferred to the new location on timber ways. The time consumed was one day for preliminary work, one day for actual moving the tower, and one day for disposing of the gear and fastening the tower in place.

NEW ZEALAND'S DEMAND FOR LUMBER INCREASING.

The importation of lumber by the New Zealand Government in 1913 amounted to 46,904,900 feet, of which the United States suppied about 23 per cent, against 22,652,8000 feet for 1910, of which the United States supplied about 14 per cent.

The duty on rough sawn lumber is $4.86 per 1,000 feet and 1 per cent ad valorem, while dressed lumber pays $9.73 per 1,000 feet and 1 per cent ad valorem.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
208	Johnson	Johnson	1700
209	Same	Same	1650
210	Same	Same	1650
211	Same	Same	1700
212	Nelson	Nelson	2000
213	Same	Same	2000
214	Broheck	Brobeck	1700
215	Nathan	Nathan	600
216	Rodgers	Mattson	400
217	Pisani	Guisti	1000
218	McCreery	Nielson	400
219	Kleinsorg	Kleinsorg	1000
220	Keenan	Keenan	5000
221	Same	Same	5000
222	Same	Same	5000
223	Same	Same	5000
224	Same	Same	5000
225	Same	Same	5000
226	Same	Same	5000
227	Same	Same	5000
228	Same	Same	5000
229	Anixter	Cal Concrete	5200
230	Same	Wilhelm	2363
231	Same	Whitney	3165
232	Same	Central Iron	582
234	Same	Central Iron	4445
234	Croce	Pordon	7550
235	Brandenstein	Jensen	10750
236	Same	Zelinsky	590
237	Same	Scott	1460
238	Same	Elec. Motor	348
239	City & Co S F	Newsom	7791
240	Same	Otis Elevator	3490
241	Kuhlman	Kuhlman	400
242	Thorup	Thorup	2450
243	Bollman	Cal Plate Glass	1425
244	Gallagher	Wallen	5400
245	S F Dairy	Wallen	11476
246	Dempniak	Dempniak	25000
247	Pandolfi	Smith	1200
248	Morris	Morris	3200
249	Sorbi	Sorbi	1500
250	Haus	Haus	3000
251	Horn	Blackburn	2500
252	Richfield	McLeran	1600
253	Clinton	Clinton	5000
254	Nelson	Nelson	2000
255	Peterson	Peterson	4400
256	Rankin Process	Rankin	5000
257	Guilbert	Guilbert	1800
258	Costello	Costello	3000
259	Morris	Morris	2250
260	Morris	Morris	2250
261	Pollock	Pollock	750
262	Hall	Hall	3000
263	Hall	Hall	3000
264	Proctor	Proctor	8000
265	Proctor	Proctor	8000
266	Sherry	Carlson	1157
267	Cahen	Whitney	4060
268	Same	Coleman	4350
269	Same	Weintraub	2000
270	Same	Terranova	2000
271	Yager	Yager	10000
272	Pacific G & E Co	Wstrn	9000
273	de Urioste	Gibbs	7800
274	Am Marine	Nelson	7100
275	Suey Wing	Mulcahy	8340
276	Dorgeloli	Barrett	1000
277	Owl Drug	Brumfeld	400
278	Owl Drug	Brumfield	400
279	Wilshons	Wilshons	400
280	Greenberg	Barrett	400
281	Mitchell	Orphanos	400
282	Schulz	Schulz	3000
283	Josey	Ralston	10000
284	Schilling	Biller	21538
285	Cerf	Linden	4978
286	Ehrhart	Murray	5000
287	Samuelson	Olson	1650
288	Heimann	Fink	2000
289	Hencken	Evans	7000
290	Cal. Fruit Canners	O	1500
291	Gould	Prout	2000
292	Arlett	Arlett	12000
293	Standard Oil	Walker	150000
294	Moeller	Leonard	2295
295	Angelins	Hantzche	864
296	Ferro	Brown	2000
297	Friedman	Hemminga	24000
298	Payne	De Luca	——
299	Payne	Mealy	——
300	Payne	Sunset	——
301	Payne	Pinkerton	——
302	Payne	Marconi	——
303	Payne	Huck	——
304	Payne	Bartholme	——
305	Gt. W'n Power	Owner	800
306	Wilson	Wilson	500
307	Dielissen	Pastorini	850
308	Stand Oil	Stand Oil	750
309	Quong Lee	Low	100
310	Rudee	Boalke	400
311	Olsen	Olsen	400
312	Erickson	Erickson	1800
313	Keil	Guilfoy	1800
314	Scott	Scott	100
315	Scott	Hayes	2000
316	Lapeyri	Lapeyri	1000
317	Penziner	Penziner	15000

FRAME DWELLING

(208) S MORAGA 96 W 18th Ave. One and one-half-story and basement frame dwelling.

Owner.....Louis Johnson, 188 Bertita San Francisco.

Architect ...None.

Day's work. COST, $1700

FRAME DWELLING

(209) S MORAGA 24 W 18th Ave. One and one-half-story and basement frame dwelling.

Owner.....Louis Johnson, 188 Bertita San Francisco.

Architect ...None.

Day's work. COST, $1650

FRAME DWELLING

(210) S MORAGA 72 W 18th Ave. One and one-half-story and basement frame dwelling.

Owner.....Louis Johnson, 188 Bertita San Francisco.

Architect ...None.

Day's work. COST, $1650

FRAME DWELLING

(211) S MORAGA 48 W 18th Ave. One and one-half-story and basement frame dwelling.

Owner.....Louis Johnson, 188 Bertita San Francisco.

Architect ...None.

Day's work. COST, $1700

FRAME DWELLING

(212) W SEVENTEENTH AVE 335-6 N Cabrillo. One and one-half-story and basement frame dwelling.

Owner.....N. J. Nelson, 547 Elizabeth, San Francisco.

Architect ...None.

Day's work. COST, $2000

FRAME DWELLING

(213) W SEVENTEENTH AVE 357-8 N Cabrillo. One and one-half-story and basement frame dwelling.

Owner.....N. J. Nelson, 547 Elizabeth, San Francisco.

Architect ...None.

Day's work. COST, $2000

FRAME DWELLING

(214) W CORDOVA 33.74 N Athens. One-story and basement frame dwlg.

Owner.....Walter G. Brobeck, 1673 Dolores, San Francisco.

Architect ...None.

Day's work. COST, $1700

ALTERATIONS

(215) NO. 106 POWELL. Alter stores.

Owner. ....Friedman Nathan Co., 150 Powell, San Francisco..

Architect ...None.

Day's work. COST, $600

REPAIRS

(216) E FOLSOM 200 S Jarboe. Repair building.

Owner.....Jas. Rodgers.

Architect ...None.

Contractor..Albert Mattson, 3919 Folsom, San Francisco.

COST, $100

ALTERATIONS

(217) SE FILLMORE AND UNION. Alter meat market.

Owner.....G. Pisani, 2189 Union, San Francisco.

Architect ...A. W. Cornelius, 625 Market, San Francisco.

Contractor..S. A. Guisti, 617 Sansome, San Francisco.

COST, $1000

ALTERATIONS

(218) NO. 210 SANSOME. Alter offices

Owner.....McCreery Estate, Premises

Architect ...None.

Contractor..N. F. Nielson, 110 Jessie, San Francisco.

COST, $100

FRAME DWELLING

(219) S VIRGINIA 122-6 E Mission. Two-story frame dwelling.

Owner.....Mrs. Lucie E. Kleinsorg, 3447 Mission, S. F.

Architect ...None.

Day's work. COST, $1000

FRAME FLATS

(220) W MASONIC AVE 200 N Grove. Two-story and basement frame (2) flats.

Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.

Architect ...None.

Day's work. COST, $5000

FRAME FLATS

(221) W MASONIC AVE 225 N Grove. Two-story and basement frame (2) flats.

Owner .....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.

Architect ...None.

Day's work. COST, $5000

FRAME FLATS

(222) W MASONIC AVE 150 N Grove. Two-story and basement frame (2) flats.

Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.

Architect ...None.

Day's work. COST, $5000

FRAME FLATS

(223) W MASONIC AVE 175 N Grove. Two-story and basement frame (2) flats.

Owner.....Wm. J. Keenan, Masonic

Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(224) W MASONIC AVE 125 N Grove. Two-story and basement frame (2) flats.
Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(225) W MASONIC AVE 100 N Grove. Two-story and basement frame (2) flats.
Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(226) W MASONIC AVE 50 N Grove. Two-story and basement frame (2) flats.
Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(227) W MASONIC AVE 75 N Grove. Two-story and basement frame (2) flats.
Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(228) W MASONIC AVE 25 N Grove. Two-story and basement frame (2) flats.
Owner.....Wm. J. Keenan, Masonic Ave. and Fulton, S. F.
Architect ...None.
Day's work. COST, $5000

CLASS "A" CREAMERY
(229) E DIVISADERO 110 S Geary S 52-6xE 100. Fireproofing, concrete and grading for two-story and basement Class "A" creamery building.
Owner.....Anixter & Sons, 1412 Divisadero, San Francisco.
Architect ...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..California Concrete Co., 14 Montgomery, S. F.
Filed Jan. 22, '16. Dated Jan. 17, '16.
Lot graded .....$ 750
Basement walls ready for brick 1650
Completed and accepted..... 1500
Usual 35 days..... 1300
TOTAL COST, $5200
Bond, $2600. Sureties, C. Russell and Adolph C. Wolf. Limit, as fast as required. Forfeit, $10. Plans and specifications filed.

(230) TILING, GLAZING, PLASTERing, roofing, sheet metal and carpenter work on above.
Contractor..A. H. Wilhelm, 180 Jessie, San Francisco.
Filed Jan. 22, '16. Dated Jan. 12, '16.
Ready for plaster.....$1162
Completed and accepted..... 580
Usual 35 days..... 581
TOTAL COST, $2323
Bond, $1162. Surety, Maryland Casualty Co. Limit, as fast as required Forfeit, $10. Plans and specifications filed.

(231) BRICK AND TERRA COTTA work on above.
Contractor..Whitney & Davies, 110 Jessie, San Francisco.
Filed Jan. 22, '16. Dated Jan. 14, '16.
Completed and accepted.....$2367
Usual 35 days..... 789
TOTAL COST, $3156
Bond, $1578. Surety, New Amsterdam Casualty Co. Limit, as fast as required. Forfeit, $10. Plans and specifications filed.

(232) ORNAMENTAL AND MISCELlaneous iron work on above.
Contractor..Central Iron Works, 651 Florida, San Francisco.
Filed Jan. 22, '16. Dated Jan. 12, '16.
Completed and accepted.....$ 436
Usual 35 days..... 146
TOTAL COST, $ 582
Bond, $291. Sureties, A. J. Schuler and Herman Natansted. Limit, 45 days. Forfeit, $10. Plans and specifications filed.

(233) STRUCTURAL IRON WORK ON above.
Contractor..Central Iron Works. 651 San Francisco.
Filed Jan. 22, '16. Dated Jan. 12, '16.
Structural steel delivered.....$2222
Completed and accepted..... 1111
Usual 35 days..... 1112
TOTAL COST, $4445
Bond, $2223. Sureties, A. J. Schuler and Herman Natansted. Limit, 45 days. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS
(234) W POWELL 151-8 N Clay N 25-10xW 60. All work except plumbing, painting, shades and chandeliers for three-story and basement frame apartments.
Owner.....Rosa Croce, 658 Green, San Francisco.
Architect ...J. A. Porporato, 619 Washington, San Francisco.
Contractor..Antonio Pordon and J. Del Favero, 1839 Mission, S. F.
Filed Jan. 22, '16. Dated Jan. 19, '16.
Rough frame up.....$1300
Brown coated and scratch coat on exterior front 1600
Completed and accepted..... 2100
Usual 35 days..... 2550
TOTAL COST, $7550
Bond, $1500. Sureties, G. Cuneo and Angelo Petri. Limit, 90 days from recording. Forfeit, $2. Plans and specifications filed.

CLASS "C" STORE AND FLATS
(235) S GEARY 68-9 E Jones E 22xS 91-8. General work for three-story Class "C" store and flat building.
Owner.....Manfred Brandenstein, 126 Mission, San Francisco.
Architect ...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..G. P. W. Jensen, 320 Market, San Francisco.
Filed Jan. 22, '16. Dated Jan. 18, '16.
Walls ready for 1st floor joists.$2015
Walls ready for 3d floor joists.. 2015
Ready for brown coating..... 2015
Completed and accepted..... 2015
Usual 35 days..... 2690
TOTAL COST, $10,750
Bond, $5375. Sureties, Frederick W. Snook and H. M. Schneider. Limit, 120 days from recording. Forfeit, $10. Plans and specifications filed.

(236) PAINTING AND VARNISHING on above.
Contractor .R. Zelinsky, 77 Clementina, San Francisco.
Filed Jan. 22, '16. Dated Jan. 18, '16.
Completed and accepted.....$410
Usual 35 days..... 150
TOTAL COST, $590
Bond, $295. Sureties, Jas. S. O'Brien and M. Rosencrantz. Limit, 120 days from recording. Forfeit, $10. Plans and specifications filed.

(237) PLUMBING AND HEATING ON above.
Contractor..Scott Co., 243 Minna, S. F.
Filed Jan. 22, '16. Dated Jan. 18, '16.
Roughed in $500
Completed and accepted..... 595
Usual 35 days..... 365
TOTAL COST, $1460
Bond, $730. Surety, New Amsterdam Casualty Co. Limit, 120 days from recording. Forfeit, $10. Plans and specifications filed.

(238) ELECTRIC WIRING ON ABOVE
Contractor..The Electric Motor & Machine Co., 150 Union Square Ave., San Francisco.
Filed Jan. 22, '16. Dated Jan. 18, '16.
Roughed in $161
Completed and accepted..... 109
Usual 35 days..... 87
TOTAL COST, $348
Bond, $174. Sureties, Henry A. Boese and A. W. Reinecke. Limit, 120 days from recording. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(239) WASHINGTON AND KEARNY. Alterations to Hall of Justice.
Owner.....City & County of San Francisco.
Architect ...None.
Contractor..William Newsom, Sharon Bldg., San Francisco.
COST, $7791

(240) INSTALLATION OF ELEVATOR on above.
Contractor..Otis Elevator Co., Beach & Stockton, San Francisco.
COST, $3490

ADDITION
(241) SW CASTRO AND TWENTY-third. Add to dwelling.
Owner.....E. H. Kuhlman, 4101 23rd, San Francisco.
Architect ...None.
Day's work COST, $400

FRAME DWELLING
(242) E TWENTY-FOURTH AVE 75 N Balboa. One-story and basement frame dwelling.
Owner.....J. H. Thorup, 281 26th Ave San Francisco.
Architect ...None.
Day's work. COST, $2450

GLASS AND GLAZING
(243) SE FOURTH AND BRANNAN 137-6x275. Glass and glazing for 3-story and basement reinforced concrete warehouse.
Owner.....The John Bollman Co., Commercial and Battery, by Lange & Bergstrom, Sharon Bldg., S. F.

Architect ...Chas. P. Weeks, Mutual Bank Bldg., S. F.
Contractor..California Plate & Window Glass Co., 864 Mission, San Francisco.
Filed Jan. 24, '16. Dated Jan. 18, '16
On or before the 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1425
Bond, limit, forfeit, none. Plans and specifications, none.

ALTERATIONS
(244) S HAYES 27-6 E Webster E 27-6 xS 120. After three-story and basement frame building into apartments
Owner.....Mary A. and Margaret A. Gallagher.
Architect ...O'Brien Bros., 240 Montgomery, San Francisco.
Contractor..A. M. Wallen, 251 Kearny, San Francisco.
Filed Jan. 24, '16. Dated Jan. 21, '16.
Rough framing completed.....$1000
Plumbing roughed in & roof on 1000
Plastering completed and electric work roughed in..... 1000
Completed and accepted..... 1050
Usual 35 days..... 1350
TOTAL COST, $5400
Bond, $2700. Sureties, Gustave Peterson and T. J. Carney. Limit, 75 days. Forfent, none. Plans and specifications filed.

MILK DEPOT
(245) S TURK 181-3 W Steiner W 50 xS 137-6. All work for one-story Class "C" milk depot.
Owner.....San Francisco Dairy Company, Corpn.
Architect ...A. L. O'Brien of O'Brien Bros., 240 Montgomery, S.F.
Contractor..A. M. Wallen, 251 Kearny, San Francisco.
Filed Jan. 24, '16. Dated Jan. 22, '16.
Excavating completed, concrete foundations and basement walls in position $1727
Cold storage room ceiled, brick work 10 feet high on all walls.. 1720
Brick work completed and plumbing roughed in 1720
Building roofed and brown coated, electric work roughed in.... 1720
Completed and accepted..... 1720
Usual 35 days..... 2869
TOTAL COST, $11,176
Bond, $5740. Sureties, Gustave Peterson and P. J. Carney. Limit, 100 days after clearing site. Forfeit, $10. Plans and specifications filed.

CONCRETE APARTMENTS
(246) E HYDE 112-6 N Sutter. Four-story and basement concrete (8) apartments.
Owner.....John Dempniak, 1664 Washington, San Francisco
Architect ...None.
Days work. COST, $25,000

FRAME DWELLING
(247) SE NAPLES 25 NE Italy. One-story and basement frame dwelling.
Owner.....Angelo Pandolfi, 799 Naples San Francisco
Architect ...E. E. Tommitz.
Contractor..L. C. Smith, 308 Munich, San Francisco.
COST, $1200

FRAME DWELLING
(248) W ELEVENTH AVE 125 N Balboa. Two-story and basement frame dwelling.
Owner.....A. T. Morris, 501 11th Ave., San Francisco.
Architect ...None.
Days work. COST, $3200
NOTE:—Job started.

FRAME DWELLING
(249) S RUSSIA 125 E Paris. One and one-half-story and basement frame dwelling.
Owner.....A. Sorbi, 353 Edinburgh, San Francisco.
Architect ...None.
Day's work. COST, $1500

IRON SHOP
(250) NO. 125 POTRERO AVE (rear). Two-story concrete and steel iron shop.
Owner.....A. Haus, Premises.
Architect ...None.
Day's work. COST, $3000

REPAIRS
(251) SW NINTH AND SHERIDAN. Repair and alter for apartments.
Owner.....J. W. Horn Co., Petaluma, California.
Architect ...H. N. Woods, St. Paul Hotel, Oakland.
Contractor..A. H. Blackburn, 149 12th Ave., San Francisco.
COST, $2500

STEEL STATION
(252) ADJOINING 3182 MISSION. One story steel station.
Owner.....Richfield Oil Co., 3188 Mission, San Francisco.
Architect ...John Reid Jr., 1st National Bank Bldg., S. F.
Contractor..McLeran & Peterson, 322 Sharon Bldg., S. F.
COST, $1600

CONCRETE FOUNDATION
(253) E THIRD, bet. Townsend and Brannan. Concrete foundation for warehouse.
Owner.....Clinton Constr. Co., 140 Townsend, San Francisco.
Architect ...Geo. Wagner, Hearst Bldg San Francisco.
Day's work. COST, $5000

FRAME DWELLING
(254) S GENEVA 125 E Madrid. One and one-half-story and basement frame dwelling.
Owner.....Emil Nelson, 241 Rivoli, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME FLATS
(255) E TENTH AVE 250 S Balboa. Two-story and basement frame (2) flats.
Owner. ....Elizabeth Peterson, 257 7th Ave., San Francisco.
Architect ...None.
Contractor..Gustave Peterson, 257 7th Ave., San Francisco.
COST, $1400

ALTERATIONS
(256) NOS. 16-18 NATOMA. Install necessary equipment for manufacture of potash from ores (for demonstration purposes).
Owner.....Rankin Process Co., Lessee 517 Underwood Bldg., S. F.
Architect ...None.
Day's work. COST, $5000

(257) E COOK 125 S Geary. Two story and basement frame (2) flats.
Owner.....A. S. Guilbert Jr., 549 13th, San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(258) E SEVENTEENTH AVE 100 N Balboa. Two-story and basement frame dwelling.
Owner.....Costello & Feerick, 3503 Mission, San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(259) W NINTH AVE 250 N Cabrillo. Two-story and basement frame dwlg.
Owner.....A. T. Morris, 501 11th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2250

FRAME DWELLING
(260) W NINTH AVE 275 N Cabrillo. Two-story and basement frame dwlg.
Owner.....A. T. Morris, 501 11th Ave., San Francisco
Architect ...None.
Day's work. COST, $2250

FRAME DWELLING
(261) N TWENTY-SEVENTH 300 W Guerrero. One-story frame dwlg.
Owner.....Mrs. H. M. Pollock, 151 27th, San Francisco.
Architect ...None.
Day's work. COST, $750

FRAME RESIDENCE
(262) E TWELFTH AVE 100 S Balboa. Two-story and basement frame residence.
Owner.....C. A. Hall, 1318 5th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME RESIDENCE
(263) E TWELFTH AVE 125 S Balboa. Two-story and basement frame residence.
Owner.....C. A. Hall, 1318 5th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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FRAME RESIDENCE

(264) SE SCENIC WAY & TWENTY-sixth Ave. Two-story and basement frame residence.

Owner.....Mrs. John W. Proctor, 123 26th Ave., San Francisco.

Architect...Willis Polk, Hobart Bldg., San Francisco.

Day's work. COST, $8000

NOTE:—Job started.

FRAME RESIDENCE

(265) S SCENIC WAY 81-7½ W 25th Ave. Three-story and basement frame residence.

Owner.....Mrs. John W. Proctor, 123 26th Ave., San Francisco.

Architect...Willis Polk, Hobart Bldg., San Francisco.

Day's work. COST, $8000

NOTE:—Job started.

(266) NE LAKE & TWENTY-SECOND Ave E 57-6xN 100. All work except plumbing, wiring, painting and light fixtures for one-story garage and garden structure.

Owner.....John H. Sherry, Clay and Davis, San Francisco.

Architect...Nathaniel Blaisdell, 255 California, San Francisco.

Contractor..N. A. Carlson, 936 Potrero Ave., San Francisco.

Filed Jan. 25, '16. Dated Nov. 8, '15.

Garage enclosed and roofed.....$425

Completed and accepted..... 442

Usual 35 days..... 290

TOTAL COST, $1157

Bond, $579. Sureties, A. H. Kunst and E. H. Norman. Limit, 40 days. Forfeit, $20. Plans and specifications filed.

STORE AND APARTMENTS

(267) NW BUSH AND POWELL N 57-6xW 77. Brick, cementing firewalls, etc., for stores and apartments.

Owner.....Joseph Cahen and Edward J. Greenhood, 45 Kearny, San Francisco.

Architect...Joseph Cahen, 45 Kearny, San Francisco.

Contractor..Frank W. Whitney and W. T. Davies, 180 Jessie, S. F.

Filed Jan. 25, '16. Dated Jan. 6, '16.

Ready for 3rd floor joists.....$1500

Firewalls topped out..... 1420

Completed and accepted..... 120

Usual 35 days..... 1020

TOTAL COST, $4060

Bond, $2030. Sureties, R. W. Moller and L. N. Venzina. Limit, as directed. Forfeit, none. Plans and specifications filed.

(268) PLUMBING, GAS FITTING AND sewer on above.

Contractor..Alexander Coleman, 706 Ellis, San Francisco.

Filed Jan. 25, 16. Dated Jan. 17, '16.

Roughed in $1630

Completed and accepted..... 1630

Usual 35 days..... 1090

TOTAL COST, $4350

Bond, $2175. Sureties, Gaetano Malpiede and Mori Varni. Limit, as directed. Forfeit, none. Plans and specifications filed.

(269) GALVANIZED IRON & SHEET metal, tin, leaders, cornices, covering, bay windows and vent shafts on above.

Contractor..Sylvan S. Weintraub and Joseph H. Moore, 281 2nd, San Francisco.

Filed Jan. 25, '16. Dated Jan. 8, '16.

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Chester B. Loomis, M. E.
CONSULTING ENGINEER
Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing.
Reports.
419 Wilcox Building
Los Angeles, California

Every 30 days work done..... 75%

Usual 35 days..... 25%

TOTAL COST, $2000

Bond, $500. Sureties, Louis G. Demangeon and Michael J. McNalley. Limit, as directed. Forfeit, none. Plans and specifications filed.

(270) LATHING, PLASTER, ETC., ON above.

Contractor..M. J. & Charles Terranova, 46 Kearny, San Francisco.

Filed Jan. 25, '16. Dated Jan. 8, '16.

Brown coated $800

White coated 500

Completed and accepted..... 200

Usual 35 days..... 500

TOTAL COST, $2000

Bond, $1000. Sureties, G. J. and Guiseppe Terranova. Limit, as directed. Forfeit, none. Plans and specifications filed.

FRAME FLATS

(271) W TWENTY-FIRST AVE 90 S California 50x120. All work for two frame buildings (2 flats and basements).

Owner.....Grace Yager, 1539 Clay, San Francisco.

Architect...None.

Contractor..W. W. Yager, 1239 Polk, San Francisco.

Filed Jan. 25, '16. Dated Jan. 15, '16.

Roof on $2500

Finish coat plaster on..... 2500

Completed and accepted..... 2500

Usual 35 days..... 2500

TOTAL COST, $10,000

Bond, none. Limit, 85 days. Forfeit, none. Plans and specifications filed.

NOTE:—1st report Jan. 13th, No. 125. One building to be erected W 21st Ave 115 S California.

ALTERATIONS

(272) BLK BDED BY HUMBOLDT, 23rd, Georgia and Louisiana. Taking down 3 smoke stacks now in place over boilers No. 16 to 21 inclusive at

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.
Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
Write for descriptive folder.
Oakland, Antioch & Eastern Railway
San Francisco Depot Key Route Ferry

FAST ELECTRIC TRAINS TO Sacramento
LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339.
Red Line Trans. Co., S. F.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

Station "A" and erecting 3 new smoke stacks.
Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect ...None.
Contractor..Western Pipe & Steel Co. of California, 444 Market, San Francisco.
Filed Jan. 25, '16. Dated Jan. 15, '16.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $9000
Bond, $5000. Surety, Guardian Casualty & Guaranty Co. Limit, 10 weeks after Jan. 8, 1916. Forfeit, none. Plans and specifications filed.

PLUMBING AND GAS FITTING
(273) NE VAN NESS AVE AND McAllister 120x109. Plumbing and gas fitting for four-story Class "C" building, apartments and stores.
Owner.....Mrs. Hannah de Urioste.
Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.
Contractor..J. Gibbs, 2505 California, San Francisco.
Filed Jan. 26, '16. Dated Jan. 25, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $7800
Bond, $3900. Sureties, M. Gibbs and A. I. Block. Limit, as required. Forfeit, $25. Plans and specifications filed.

CLASS "A" BUILDING
(274) SE RINCON PLACE (Ellery) & Bryant E 25x8 90. All work for two-story and basement reinforced concrete Class "A" building.
Owner.....American Marine Paint Co., 149 California, S. F.
Architect ...Charles Paff & Co., Merchants' Exchange Bldg., San Francisco.
Contractor..Nelson & Bauer, Fulton & Gough, San Francisco.
Filed Jan. 26, '16. Dated Jan. 22, '16.
Excavation done and concrete for footings & 1st floor poured.$2125
Concrete walls of 1st story and mezzanine poured 1200
Completed and accepted..... 2000
Usual 35 days..... 1775
TOTAL COST, $7100
Bond, $3550. Sureties, W. H. Nolan and E. P. Peterson. Limit, 70 days from Jan. 17, 1916 (exclusive of rainy days). Forfeit, none. Plans and specifications filed.

(275) W GRANT AV, 89-6 N Washington N 48x137-6. All work except window shades and light fixtures for additional story to brick building.
Owner.....Suey Wing Benevolent Association Cpn.
Designer ...P. A. Ness.
Contractor..Mulcahy Bros., 180 Jessie, San Francisco.
Filed Jan. 26, '16. Dated Jan. 26, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $8340
Bond, $4170. Sureties, E. J. Brandon and B. Mulcahy. Limit, 70 days. Forfeit, none. Plans and specifications filed.

REPAIRS
(276) NO. 1302-4 PAGE. Raise and make repairs for dwelling.
Owner.....Martha Dorgeloli, 1304 Page, San Francisco.
Architect....None.
Contractor..Barrett & Hilp, Sharon Bldg., San Francisco.
COST, $1000

ELECTRIC SIGN
(277) NW FILLMORE AND GEARY. Electric sign.
Owner.....The Owl Drug Co., 611 Mission, San Francisco.
Architect....None.
Contractor..Brumfield Electric Sign Co., 18 7th, S. F.
COST, $400

ELECTRIC SIGN
(278) NW GOLDEN GATE AND MARKET. Electric sign.
Owner.....The Owl Drug Co., 611 Mission, San Francisco.
Architect....None.
Contractor..Brumfield Electric Sign Co., 18 7th, S. F.
COST, $400

ADDITION
(279) NO. 1057 CHURCH. Add two rooms to dwelling.
Owner.....C. Wilshons, Premises.
Architect....None.
Day's work. COST, $400

REPAIRS
(280) NO. 1818 DIVISADERO. Excavate and make repairs for store and dwelling.
Owner.....A. H. Greenberg, 1409 Ellis, San Franisco.
Architect....None.
Contractor..Barrett & Hilp, 424 Sharon Bldg., S. F.
COST, $400

ALTERATIONS
(281) NO. 833 VAN NESS. Alterations for andy store.
Owner.....S. Mitchel.
Architect....None.
Contractor..Geo. Orphanos, 833 Van Ness, S. F.
COST, $400

RESIDENCE
(282) E FORTY-FIRST AVE, 173-8 N Balboa. Two-story and basement frame residence.
Owner.....Theodor Schulz, 56 Kissling, San Francisco.
Architect....None.
Day's work. Cost, $3,000

(283) S GEARY, 92-6 W Powell, W 45x8 137-6. Structural steel, two fire escape stairs for one-story reinforced concrete theatre building.
Owner.....N. L. Josey, 1 Montgomery street, S. F.
Architect....Matthew O'Brien, 68 Post, San Francisco.
Engineer...Edward L. Soule, Rialto Bldg., S. F.
Contractor..Ralston Iron Works, 20th and Indiana, S. F.
Filed Jan. 27, '16. Dated Jan. 24, '16.
On 1st of each month 50%
On completion 25%
Usual 35 days 25%
TOTAL COST, $10,000
Bond, Sureties, Forfeit, none. Limit, 25 days. Specifications filed.

ALTERATIONS
(284) N VALLEJO, 35 W Webster, N 137-6xW 60. Alterations and additions to residence.
Owner.....Claus Schilling, Minnesota bet. 20th and 21st, S. F.
Architect....G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..John Biller, 460 Montgomery, S. F.
Filed Jan. 27, '16. Dated Jan. 26, '16.
On 1st of each month 75%
Usual 35 days 25%
TOTAL COST, $21,538
Bond, Sureties, Forfeit, none. Limit, as rapidly as practical. Plans and specifications filed.

FLATS
(285) E THIRTEENTH AVE 250 N California, E 25xN 120. All work for two-story and basement, two flats.
Owner.....May Wollner Cerf, 29 Palm avenue, S. F.
Architect....Alfred Henry Jacobs, 110 Sutter, S. F.
Contractor..Wm. Linden, 110 Jessie, San Francisco.
Filed Jan. 27, '16. Dated Jan. 24, '16.
Frame up and interior partitions in, place and roof boarding on $1244.50
First coat plaster on inside and out 1244.50
Completed 1244.50
Usual 35 days 1244.50
TOTAL COST, $4978
Bond, $4978. Sureties Fidelity and Deposit Co. of Maryland. Forfeit, none. Limit, June 1, 1916. Plans and specifications filed.

RESIDENCE
(286) LOT 10, BLK 27½, FOREST Hill Extension. Two-story and basement frame residence.
Owner.....Ehrhart Construction Co., 803 Hearst Bldg., S. F.
Architect....None
Contractor..J. J. Murray, 803 Hearst Bldg., S. F.
COST, $5000

DWELLING
(287) W NOE 75 S 23rd. One and one-half story and basement frame dwlg.
Owner.....A. M. Samuelson, 3732 23rd, San Francisco.
Architect....None
Contractor..H. C. Olson, 338 Hallaway, San Francisco.
COST, $1650

REPAIRS
(288) NO. 1598 BUSH. Repairs for interior of market.
Owner....Heimann Estate, Premises.
Architect....August Headman, New Call Bldg., S. F.
Contractor..Fink & Schindler, 226 13th street, S. F.
COST, $2000

FLATS AND STORES
(289) SW FOLSOM AND RUSS. Three-story and basemeot frame (4) flats and (2) stores.
Owner.....Henry C. Hencken, Mill Valley, Marin County, Cal.
Architect....O. E. Evans & Co., 2569 Mission, S. F.
Contractor..O. E. Evans & Co., 2569 Mission, S. F.
COST, $7000

ADDITION
(290) NE FRANCISCO AND TAYLOR. Two additional floors put over a section of 20x45 feet of the frame and corrugated iron Mfg. Bldg.
Owner.....California Fruit Canners' Association, 120 Market, San Francisco.
Engineer...Philip L. Bush, 120 Market, San Francisco.
Day's work. COST, $1500

LAUNDRY
(291) N BROADWAY 146 3-12 W Polk. one-story frame laundry.
Owner.....E. Y. Gould, 1859 Geary, San Francisco.
Architect....None.
Contractor..J. Prout, 2020 Turk, San Francisco.
COST, $2000

APARTMENTS AND STORES
(292) NE FOLSOM AND TWELFTH. Three-story and basement frame apartments and stores.
Owner.....Arthur Arlett. Newhall Bldg., S. F.
Architect....B. G. McDougall, Sheldon Bldg., S. F.
Day's work. COST, $12,000

ADDITION
(293) NW BUSH AND SANSOME. It is proposed to add a 12th floor slab, to raise the present duct space now above the present 11th floor slab, to a similar position above the 12th story ceiling. It is also proposed to subdivide the present 11th floor slab and the new 12th floor into offices, etc., also to run the four elevators up to main roof level, add blue print room, and extend enclosure of overhead work of elevators.
Owner.....Standard Oil Co. Premises.
Architect....B. G. McDougall, Sheldon Bldg., S. F.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $150,000
Note: Work under way.

FRAME BUILDING
(294) W FORTY-FIFTH AVE, 225 N Irving, N 25xW 120. All work for five-room and basement frame building.
Owner.....T. F. Moeller, 1020 Capp, San Francisco.
Designer....Peter M. Leonard, 1247 45th avenue, S. F.
Contractor..Peter M. Leonard, 1247 45th avenue, S. F.
Filed Jan. 28, '16. Dated Jan 28, '16.
Frame up $573
Rough pumbing in and brown coated 574
Competed 574
Usual 35 days 574
TOTAL COST, $2295
Bond $1150. Sureties, W. P. Leonard and Mary T. Leonard. Forfeit, none. Limit, 70 days. Plans and specifications filed.

ADDITIONS
(295) S CLEMENT 48 E 34th avenue, E 24xS 100. All work except plumbing for additions to frame building
Owner.....Fred Angelius, Premises.
Architect....Sylvain Schnaittacher, 233 Post, S. F.
Contractor..Hantzsche & McKay, 528 31st avenue, S. F.
Filed Jan. 28, '16. Dated Nov. 22, '15.
Frame up $321
Completed and accepted 324
Usual 35 days 216
TOTAL COST, $861
Bond, $432. Sureties, Henry J. Kessel and Jno. H. McKay. Forfeit, $5. Limit, 26 days. Plans and specifications filed.
Note: First report Nov. 27th, 1915; No. 7391.

RESIDENCE
(296) SE LISBON 200 NE RUSSIA avenue, NE 25xSE 100. One and one-half story and basement frame residence.
Owner.....Peter Ferro, 136 Cora, San Francisco.
Architect....Plans by contractor.
Contractor..Ward C. Brown, 2945 Harrison, S. F.
Filed Jan. 28, '16. Dated Jan. 17, '16.
Frame up $500
Brown coated 500
Completed 500
Usual 35 days 500
TOTAL COST, $2000
Bond $5. Sureties, Forfeit, none. Limit, 90 days from issuance of permit. Plans and specifications filed.

FLATS
297) SW CALIFORNIA and 14th Ave, S 160xW 90. All work for four two-story and basement frame flats.
Owner.....Louis Friedman.
Architect....Heiman & Schwartz, Nevada Bank Bldg., S. F.
Contractor..W. L. Hemminga, Inc., 1600 Fell, S. F.
Filed Jan. 28, '16. Dated Jan. 28, '16.
Roof on all buildings.....$6000
White coated 6000
On completion 6000
Usual 35 days 6000
TOTAL COST, $24,000
Bond, $12,000. Sureties, Royal Indemnity Co. Forfeit, none. Limit, 100 days from filing. Plans and specifications filed.

BRICK APARTMENTS
(298) E HYDE 87-6 S Bush Grading and concrete work for three-story and basement brick (18) apartments.
Owner.....Clyde S. Payne.
Architect....W. G. Hind, 46 Kearny, San Francisco.
Contractor..R. De Luca, 2256 Jones, San Francisco
COST, $——

(299) BRICK WORK ON ABOVE.
Contractor..Mealy & Collins, 185 Stevenson, S. F.
COST, $——

(300) STRUCTURAL STEEL ON above.
Contractor..Sunset Iron Works, 1124 Folsom, S. F.
COST, $——

(301) PLUMBING ON ABOVE.
Contractor..James H. Pinkerton, 2266 Fulton, S. F.
COST, $——

(302) PLASTERING ON ABOVE.
Contractor..J. Marconi, 737 Green, San Francisco.
COST, $——

(303) PAINTING ON ABOVE.
Contractor..A. Huck, 59 Capp, S. F.
COST, $——

(304) SHEET METAL WORK ON above.
Contractor..Bartholme & Hartmanshen.
COST, $——

REPAIRS
(305) E HYDE 100 S Beach. Repair oil tank(steel).
Owner.....Great Western Power Co., 14 Sansome, S. F.
Architect....None.
Day's work. COST, $800

ALTERATIONS
(306) NO. 219-20 SIXTH AVE. Alter flats into apartments.
Owner.....C. E. Wilson, Premises.
Architect....None.
Day's work. COST, $500

DWELLING
(307) N HOLLISTER 250 W Ingalls. One-story and basement frame dwlg.
Owner.....M. Dielissen, 15 Carr, San Francisco.
Architect....None.
Contractor..L. Pastorini and A. Lindelli, 15 Carr, S. F.
COST, $850

SUPPLY STATION
(308) NW JONES AND POST. One story brick auto supply station.
Owner.....Standard Oil Co., Standard Oil Bldg., S. F.
Architect....None.
Day's work. COST, $750

ALTERATIONS
(309) NO. 1488 VALENCIA. Alteration for laundry.
Owner.....Quong Lee, Premises.
Architect....None.
Contractor..Jas. Low, 1501 Valencia, San Francisco.
COST, $400

ALTERATIONS
(310) NO. 247 THIRD ST. Alteration for restaurant.
Owner.....Mrs. J. Rudee, 516 Divisadero, S. F.
Architect....None.
Contractor..R. C. Baalke.
COST, $400

REPAIRS
(311) NO. 323 Clipper. Raise and repair flats.
Owner.....Lars Olsen, Premises.
Architect....None.
Day's work. COST, $400

DWELLING
(312) SE WINDING WAY 99 SE Maylor. One-story and basement frame dwelling.
Owner.....W. Erickson, 1140 Fairfax avenue, S. F.
Architect....None.
Day's work. COST, $1800

MARQUISE
(313) NO. 2554-78 Mission. Erect marquise.
Owner.....Keil Estate Co., Flood Bldg., S. F.
Architect....Reid Bros., Montgomery and Sutter, S. F.
Contractor..Guilfoy Cornice Works, 229 8th, S. F.
COST, $1800

DWELLING
(314) NO. 1531 JUDAH. Two-story and basement frame dwelling.
Owner.....Agnes G. Scott, 1531 Judah, San Francisco.
Architect....None.
Day's work. COST, $1000

REPAIRS
(315) SE PERRY and 6th. Repair fire damage.
Owner.....Scott, Magner & Miller, 10 California, S. F.
Architect....John Hayes, 1061 Newcombe avenue, S. F.
Contractor..John Hayes, 1061 Newcombe avenue, S. F.
COST, $2000

LAUNDRY
(316) NO. 1177 FIFTEENTH. (rear). One-story frame laundry.
Owner.....Martin Lapeyri.
Architect....A. L. Lapachet, 110 Sutter, San Francisco.
Day's work. COST, $1000

APARTMENTS
(317) E HYDE 137-6 N Ellis. Four-story and basement brick (15) apartments.
Owner.....A. Penziner, Premises.
Architect....Geo. C. Thomas, 379 Russ Bldg., S. F.
Day's work COST, $15,000

LEASE.

Jan. 28, 1916—NO. 1101 VALENCIA. Anstruther Inv. Co. and M. S. Blanchard to H. Brodsky, 3 years, $1440.
Jan. 28, 1916—N RESERVOIR 319-7¼ E Church, etc. Spring Valley Water Co. to Ellen Cummings, 1 year, $1.
Jan. 27, 1916—W MASON 62-6 N Turk, N 75xW 105. John G. and Agnes M. Agar, trustees estate Joseph Macdonough, deceased, to Mason Street Theatre Co. $255,000.
Jan. 28, 1916—PTN 609-615 CLEMENT S line bet. 7th and 8th avenues. David Danehy to Oracio Lucchetti and Bruno Lorenzo, 2 years, $1200.
Jan. 26, 1916—NOS. 303-305 THIRD. Reginald Bell to J Papandriopulos. 60 months. $9120.
Jan. 26, 1916—NO. 4006 TWENTY-fourth N line bet. Noe and Castro. Marian Reid Eiben to A C White. 3 years. $630.
Jan. 26, 1916—NO. 3330 MISSION W line bet 29th and 30th. Paulo, Luigi and Serafeno Giomi to California Clothing & Furnishing Co, Inc. 3 years. $2460.
Jan. 24, 1916—N BAY 60 E Larkin E 52-6xN 87-6. Annie and Giovanni Cuneo to O Lippi. 1 year. $300.
Jan. 25, 1916—S HOWARD & SEVENTH SW 111xSE 100. Jno W J Enright and Mary A Sweeney to M Kruger. 5 years. $3600 with option to renew.
Jan. 25, 1916—S CLEMENT 57-6 E 24th Ave E 50xS 100. Benj Schnier to Renato and Diogene Bacci. 5 years. $6000.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Jan. 15, 1916—S FILBERT 164 W Baker W 26-6xS 137-6. Harry E Gates to W W Rednall..Jan. 14, 1916
Jan. 15, 1916—S FILBERT 137-6 W Baker W 26-6xS 137-6. Paul M Nippert to W W Rednall.Jan. 13, 1916
Jan. 17, 1916—E ½ LOT 17 all Lot 18 Blk "X" Mission St. Land Co. per Map Shdvn of Mission St. Land. William H Grahn to whom it may concern.... .....Dec. 28, 1915
Jan. 17, 1916—E HARTFORD 145 S 19th S 28xE 125. Anna Engelberg to Gust R Nelson.....Jan. 15, 1916
Jan. 17, 1916—S GEARY 87-6 E Mason E 25xS 105. Clara Herrscher to Barrett & Hilp.....Jan. 15, 1916
Jan. 17, 1916—N MEDA AVE 75-1 and 100-1 W Otsego Ave 25x70 (2 lots). Jas Arnott & Son to whom it may concern.....Jan. 14, 1916
Jan. 13, 1916—S BUSH 187-6 W Mason W 42xS 137-6. O'Brien Bros, Inc to Pacific Structural Iron Works, C Chiappa Co and Brandon & Lawson.....Completed —
Jan. 19, 1916—N GEARY 62-6 E Jones E 75xN 77-6. Jeremiah Lynch to Jas H Pinkerton Co, Jan. 17; J S Hannah.....Jan. 17, 1916
Jan. 19, 1916—LOT 13 and E 4.16 feet Lot 11 Blk 281S, Forest Hill Court. Conservative Bldg & Invst Co to Wm H Kiler.....Jan. 19, 1916
Jan. 19, 1916—W EIGHTEENTH AVE 125 S Balboa S 25xW 120. Edith Leigh to Leigh & Schultz.Jan. 4, 1916
Jan. 19, 1916—W EIGHTEENTH AVE 175 S Balboa S 25xW 120. W H Sale to Leigh & Schultz..Jan. 17, 1916
Jan. 19, 1916—NE PACIFIC AND Leavenworth N 66xE 45. S J Sterner to whom it may concern.. .....Jan. 19, 1916
Jan. 19, 1916—S SUTTER 87-6 E Hyde E 25xS 137-6. L D Stoff to John C Kincanon.....Jan. 10, 1916
Jan. 20, 1916—LOT 380 Gift Map No. 1. Angelo Contratto to whom it may concern.....Jan. 20, 1916
Jan. 21, 1916—W TWENTY-SIXTH Ave 100 N Judah 25x120. G W Baraco to W F Dulfer...Dec. 30, 1915
Jan. 21, 1916—W SHRADER 486-6 S 17th S 35-3⅜ W 100 N 35-2⅛ E 100 Lot 20 New Blk 1289. J W Barton to J W Barton.....Jan. 21, 1916
Jan. 22, 1916—SW MISSION 275 SW from S Cor. Mission and Russia Ave SW 25xSE 83-6. Margaret J Ferren to D Houle.....Jan. 22, 1916
Jan. 22, 1916—E FORTY-SEVENTH Ave 190 N Cabrillo N 25xE 120. A McBarnes to whom it may concern .....Jan. 20, 1916
Jan. 22, 1916—W DOLORES 75 S 17th W 75xS 28-8. Michael and Birdie Sullivan to Schroeder Bros..... .....Jan. 22, 1916
Jan. 24, 1916—E GRANT AVE 68 S Union. Firpo and Finocchio Bros to B Pagano.....Jan. 22, 1916
Jan. 24, 1916—NW VALLEJO AND Divisadero 68x137-6. Marie A Musto to Turner Co.....Jan. 19, 1916
Jan. 24, 1916—SE CLARA 150 NE 4th NE 20xSE 85. Nicola Pantelios and George Vavasy to Thomas Hamill .....Jan. 24, 1916
Jan. 24, 1916—SW DIVISION AND Kansas S 260 to a point in W Kansas 100 N Alameda W 200 N 191 NE parallel with right of way of S P Co to S Division E 57. Jno G Rapp to Pacific Fire Extinguisher Co .....Jan. 21, 1916
Jan. 24, 1916—S GEARY 40 W 16th Ave W 50xS 75. A F Magrane to whom it may concern...Jan. 20, 1916
Jan. 25, 1916—N EIGHTEENTH 95 E Valencia N 80xE 25. P M McHugh to Ratto & Ratto.....Jan. 21, 1916
Jan. 25, 1916—N ELLIS 77-6 W Leavenworth W 60x137-6. Metropolis Invst Co to whom it may concern.....Jan. 25, 1916
Jan. 25, 1916—NW VALLEJO & Divisadero 68x137-6. Marie A Musto to Kiernan & O'Brien..Jan. 20, 1916
Jan. 26, 1916—LOT 75 Corona Heights Estelle Kazebeer to Dan and Christian T Gutleben (as Gutleben Bros) .....Jan. 24, 1916
Jan. 27, 1916—W 29.17 FEET LOT 14 and E 8.33 feet lot 15, Blk 281S, Forest Hill Court. Wm. H. Kiler and Conservative Building and Investment Co. to whom it may concern .....Jan. 27, 1916
Jan. 27, 1916—W TENTH AVE 350 N Kirkham, N 25x120. Frank and Annie Zagrzewski to whom it may concern .....Jan. 27, 1916
Jan. 27, 1916—S BUSH, 77-6 W Jones, W 30xS 107-6. Herman I. Hogrefe to whom it may concern.Jan. 26, 1916
Jan. 27, 1916—S TWENTY-FOURTH, 225 W Noe. H. Stewart to P. A. Palmer Co. .....Jan. 18, 1916
Jan. 27, 1916—NW HAIGHT and Laguna, W 60xN 137-6. The Helpers of the Holy Souls to McCarthy & Walker .....Jan. 27, 1916

LIENS FILED

San Francisco

Jan. 13, 1916—S FILBERT 70 m or l W Steiner W 100xS 100. Rex Elec Co vs H A Lehfeldt and E M Reagh $295.10
Jan. 15, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ E 2-3 N 40. F P McKeon vs W M Reagh and Henry A Leahfeldt $600
Jan. 15, 1916—E ELSIE 125 S Esmeralda Ave. The Greater City Lumber Co vs B Finnigan.....$14
Jan. 15, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ E 2-3 N 40. Pacific Manufacturing Co vs E M Reagh.....$2450
Jan. 17, 1916—N GOLDEN GATE AVE 71-10½ E Lyon. Frank Ingigneri vs Heyman Smith and Walter Reip $85
Jan. 18, 1916—W POWELL 116-8 S Sutter S 21 W 80 N 2 in W 20 N 20-10 E 100. Geo C Todhunter, $129; John W Gleadell, $65 vs Joseph T, Ada T, Virginia C and John F Cooney and Lucy Simpson
Jan. 19, 1916—S CALIFORNIA 47-6 E Pierce S 87-6xE 22-6. Henry Conrad vs Wilhelmine **Foerst**.....$676
Jan. 19, 1916—SW PINE & BATTERY W 97-6xS 45-10. Hansbrough-Johnston Co vs Peck-James Thermo Appliance Co, George Peck, Anna Meloy Donahoe, Anna Meloy Donahoe, tr Est Michael Donahoe, decd $1531.80
Jan. 19, 1916—N CLAY 137-6 W Webster W 32-6xN 127-8¼. S Ingram vs Samuel M, Helene S, Theo and Minna Cohn $300
Jan. 20, 1916—E TWELFTH AVE 75 S Balboa S 25xE 95. Wm A Hayes vs Nellie R Eggers, R McLelland and J S McLelland.....$65
Jan. 20, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. California Brick Co vs E M Reagh and Henry A Lehfeldt $252
Jan. 21, 1916—SW EXCELSIOR AND Naples 25x100. Coefield Mfg Co vs Salvatore Basso and John C Grant $40
Jan. 22, 1916—W COMMONWEALTH Ave 415 S Euclid Ave S 40xW 120. Vehyle & Collins vs Aimee M and Milton B Lennon and Jas B Fletcher $647.55
Jan. 24, 1916—W COMMONWEALTH Ave 445 S Euclid Ave S 40xW 120. Frank Portman, $150; California Door Co. $225.30; Mission Marble Works, $46.50 vs James P Fletcher, Aimee M and Milton B Lennon...
Jan. 24, 1916—S LINCOLN WAY 107-6 W 47th Ave W 25xS 100. Philip

Gau vs R M Bacon $50.50

Jan. 25, 1916—NE THIRTIETH AVE and Balboa E therefrom 57 E 28-6 N 93-7 m or 1 W 28-6 S 93-7 to N line Balboa 57 feet from E 30th Ave to pt of beg. J H Franks vs Dr Amil Morris and Nevada W Meyer $198.50

Jan. 25, 1916—SW TWENTY-NINTH Ave and Balboa W therefrom 60-7 W 29-5 S 100 — 37-6 m or 1 NW to beg. J H Franks vs W W Lawler $288.33

Jan. 25, 1916—SE NINETEENTH & Utah E 25xS 100 as Lot 15 Blk 4076 Assessor's Map. Victor Rosenbaum vs John F Haner.....$170

Jan. 26, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. Carlo Chiappa, $502; J Marconi, $920; L Klein and E Borgeson, $472,62 vs E M Reagh

Jan. 26, 1916—S FILBERT 67-6 W Steiner W 77-6 S 137-6 E 62-6¼ N 98-4 to a pt 69-9 W Steiner and 40 S Filbert N 40. H E Drake vs E M Reagh and Henry Lehfeldt...$497.95

Jan. 26, 1916—N FARNSWORTH Lane; No. 36 Farnsworth Lane. S F Lumber Co vs Geo L Stewart, A A Robinsen and J R Wilson..$269.46

Jan. 26, 1916—SW PINE AND BATtery W 97-6xS 45-10. Builders' Supply Depot vs Hansbrough-Johnson Co, Anna Meloy Donohoe and as Trus Est Michael Donohoe...$240.15

Jan. 27, 1916—W FOURTH and Clementina, SW 155, NW 80, SW 25, SE 80, NE 25. J. H.Sampel vs. Louis Lauhscher, Wade & Carlsen.....$370

Jan. 28, 1916—S ELM AVE 137-6 E Gough, E 67-6xS 52. W. P. Fuller & Co. vs. Catherine Black O'Giannini & Son, Jno. J. Solomin.....$130

Jan. 28, 1916—S ELM 137 E Gough, E 27-6x S 52. Michel & Pfeffer vs. Katherine Black and O. Giannini & Son $44

Jan. 28, 1916—SW EXCELSIOR and Naples. F. A. Neenan vs. John Basso and J. C. Grant.....$33.50

Jan. 28, 1916—S ELM 137-6 E Gough, E 27-6xS 55-2. E. V. Lacey vs. Katherine Black & O. Giannini & Son $178.50

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Jan. 24, 1916—W SANCHEZ 114 N 24th N 25xW 101-9. Alwin Wilfert to Leland Spencer.....

Jan. 24, 1916—W SANCHEZ 139 N 24th N 25xW 101-9; W Sanchez 114 N 24th N 25xW 101-9. J H Kruse to Leland Spencer and A Wilfert.....

Jan. 27, 1916—SW EXCELSIOR AVE. and Naples, 25x100. Geo. W. and Alice J. Coefield as Coefield Mfg. Co. to Salvatore Basso and John C. Grant .....

Jan. 28, 1916—N OAK, 157-6 W Van Ness avenue, W 89-9, N 120, E 68-9, S 10, E 21, S 80. Martin Carrick and Ewin G. Blenkman vs. Young Men's Institute Hall Association..

Jan. 28, 1916—S ELM AVE 137-6 E Gough, E 27-6xS 52. W. P. Fuller & Co. to Catherine Black.....

Building Contracts Awarded

Oakland.

103	Evans	Kelley	400
104	Glantz	Glantz	1600
105	McLaughlin	Bartlett	10000
107	Headburg	Headburg	1500
108	Remillard Br	Owner	450
109	Thurston	Lee	600
110	Anderson	Anderson	1600
111	Shredded Wheat	John	1951
112	Strang	Strang	3000
113	Robertson	Hayes	400
114	Schomig	Schomig	1200
115	Buhman	Buhman	1500
122	Marymont	Federal Sign	1000
123	Wheeler	Wheeler	1000
124	Vernon	West	750
125	Brown	Bayles	400
126	Nissen	Martin	500
127	Packard	Packard	3000
129	Morse	Smith	2235
130	Same	Same	2335
131	Marine	Corbett	1600
132	Trimblett	Trimblett	1500
133	Sommarstrom	Owner	50000
134	Pickell	Griffin	2500
135	Bockman	Griffin	3000
136	Ind. Home	Nielsen	945
138	Broadhead	Wishart	1750
139	Adams	Nelson	2500
140	Alexander	Schnebly	1623
142	McGauley	Wiehen	400
143	Owl Drug	Owner	500
144	Bronson	Allen	800
145	Bruno	Vaughn	2556

ALTERATIONS

(103) NO. 1943 NINTH AVE., Oakland. Alterations.

Owner.....Mrs. Evans, Premises.

Architect ...None.

Contractor..C. K. Kelley, 2714 Garden, Oakland.

COST, $400

DWELLING

(104) E EIGHTY-EIGHTH AVE 240 N Birch, Oakland. One-story five-room dwelling.

Owner.....G. W. Glantz, 1464 87th Ave Oakland.

Architect ...None.

Day's work. COST, $1600

APARTMENTS

(105 N SEVENTEENTH 60 W Grove, Oakland. Three-story 18-room apartments.

Owner.....David McLaughlin, 15th & Broadway, Oakland.

Architect ...E. W. Cannon, Central Bank Bldg., Oakland.

Contractor..John M. Bartlett, 1706 Parker, Berkeley.

COST, $10,000

DWELLING

(107) E MIDVALE 40 N California, Oakland. One-story 5-room dwelling.

Owner.....G. A. Headburg, 3348 14th Ave., Oakland.

Architect ...None.

Day's work. COST, $1500

BRICK SHED

(108) FIRST AND CLAY, Oakland. One-story brick shed.

Owner.....Remillard Brick Co., Prem.

Architect ...None.

Day's work. COST, $150

DWELLING

(109) S BROMLEY 170 W 64th Ave., Oakland. One-story 4-room dwlg.

Owner.....Mrs. Bertha Thurston, 958 Oak, Oakland.

Architect ...None.

Contractor..Robert Lee, 1111 Gough, San Francisco.

COST, $600

DWELLING

(110) S ANZONA 700 E Maple A Oakland. One-story 5-room dwlg

Owner.....A. T. Anderson, 2335 L wood, Oakland.

Architect ...None.

Day's work. COST, $

DRINKING PLANT

(111) LOCATION NOT GIVEN. C land. All work for cold water dr ing plant.

Owner.....Pacific Coast Shre Wheat Co. Oakland.

Architect ...Lewis Hobart, Cro Bldg., San Francisco.

Contractor..H. W. Johns-Manville 2nd and Howard, S. F.

Filed Jan. 24, '16. Dated Dec. 10, '1 On 15th of each month..... Usual 35 days.....

TOTAL COST, $19

Bond, $975.75. Surety, New Eng Equitable Insurance Co. Limit, Fe 1916. Forfeit, $10. Specifications filed.

FRAME DWELLING

(112) LOT 68 NOVA PIEDMONT, hor Drive, Piedmont. Two-s frame dwelling.

Owner.....F. N. Strang, 805 Pa Ave., Alameda.

Architect ...F. N. Strang.

Day's work. COST, $

ALTERATIONS

(113) NOS. 456-58 SEVENTH, Oak Alterations.

Owner.....A. W. Robertson, Prem

Architect ...None.

Contractor..C. C. Hays, 5237 A Oakland.

COST,

DWELLING

(114) W EIGHTY-EIGHTH AVE S E-14th, Oakland. One-story room dwelling.

Owner.....A. Schomig, 4539 Thom Oakland.

Architect ...None.

Day's work. COST, $

DWELLING

(115) N PALMETTO 100 E Cham Oakland. One-story 5-room dwe

Owner.....Peter Buhman, 4039 coln Ave., Oakland.

Architect ...None.

Day's work. COST, $

GASOLINE STATION

(120) W BROADWAY 150 S Cl Oakland. Gasoline station.

Owner.....H. White, 620 Lake S Blvd., Oakland.

Architect ...None.

Day's work. COST,

ELECTRIC SIGN

(121) NO. 1217 BROADWAY, Oakl Electric sign.

Owner.....Heintz, "The Cloth Premises.

Architect ...None.

Contractor..Federal Elec. Sign Co., Mission, San Francisc

COST,

ELECTRIC SIGN

(122) SE THIRTEENTH AND W ington, Oakland. Electric sign.

Owner.....Maymont & Upright, P

Architect ...None.

Contractor..Federal Elec. Sign Co., Mission, San Francisco

COST, $

RATIONS
NO. 3225 FRUITVALE AVE., land. Alterations.
.....W. H. Wheeler, Premises.
ect ...None.
work. COST, $1000

RATIONS
NO. 3500 MAPLE AVE., Oak- . Alterations.
.....Arthur Vernon, Alameda.
ect ...None.
ctor..West & Engle, Hotel Ray, Oakland.
COST, $750

LING
W THOMAS 180 S Prospect e, Oakland. Two-story 8-room lling.
.....Walter H. Packard, 1020 Broadway, Oakland.
ect ...Chas. W. McCall, Central Bank Bldg., Oakland.
work. COST, $3000

E DWELLING
LOT 40 COLLEGE COURT TCT, land. All work for two-story 9-n frame dwelling.
.....F. F. Morse, 1540 San Pablo Ave., Oakland.
ect ...None.
ctor. O. G. Smith, 4411 Walnut Ave., Oakland.
Jan. 26, '16. Dated Jan. 6, '16.
r boards on.....$585
tered 583
pleted 583
al 35 days..... 583
TOTAL COST, $2335
none. Limit, 90 days. Forfeit, Plans and specifications filed.

E DWELLING
LOT 25 COLLEGE COURT TCT, land. All work for two-story 9-n frame dwelling.
.....F. F. Morse, 1540 San Pablo Ave., Oakland.
ect ...None.
ctor..O. G. Smith, 4411 Walnut Ave., Oakland.
Jan. 26, '16. Dated Jan. 6, '16.
r boards on.....$585
tered 583
pleted 583
al 35 days..... 583
TOTAL COST, $2335
none. Limit, 90 days. Forfeit, Plans and specifications filed.

RATIONS
NO. 1301 BROADWAY, Oakland. ration to store, mezzanine floor.
.....Marine Grotto, Premises.
ect....None.
ctor..Corbett & Bayliss, 1110 Franklin, Oakland.
COST, $1600

LING
S BROOKDALE, 320 W 38th nue, Oakland. One-story, five-n dwelling.
.....Robert Trimblett, 3630 Brookdale avenue, Okd.
ect....None.
work. COST, $1500

TMENTS
NW TWENTY-FOURTH ST., Telegraph avenue, Oakland. r story brick apartments.
.....Sommarstrom Investment Co., 202 E-12th street, Oakland.
Architect....Richardson & Burrell, Albany Block, Oakland.
Contractor..Sommarstrom Bros., 202 E-12th, Oakland.
COST, $50,000

DWELLING
(131) NE HAMPEL and Randolph, Oakland. Two-story, six-room dwelling.
Owner.....Mrs. Pickell, 1020 25th avenue, Oakland.
Architect....None.
Contractor..C. M. Griffin, 746 5th avenue, Oakland.
COST, $2500

FLATS
(135) NE EIGHTEENTH and Filbert streets, Oakland. Two-story, six-room flats.
Owner.....M. Bockman, Premises.
Architect....None.
Contractor..C. M. Griffin, 746 5th avenue, Oakland.
COST, $3000

LAVATORIES
(136) NO 3601 TELEGRAPH AVE., Oakland. Lavatories.
Owner.....Industrial Home for Adult Blind, Premises.
Architect....Benj. McDougall, Sacramento and Sheldon Bldg., San Francisco.
Contractor..J. C. Nielsen, 849 Athens avenue, Oakland.
COST, $915

DWELLING
(138) N FORTY-SECOND ST., 150 W Market street, Oakland. One-story, five-room dwelling.
Owner.....Broadhead & Wishart, 864 57th street, Oakland.
Architect....None.
Day's work. COST, $1750

DWELLING
(139) N CORONADO AVE., 100 E Desmond street, Oakland. One-story, six-room dwelling.
Owner.....I. Adams, Federal Realty Bldg., Oakland.
Architect....None.
Contractor..O. E. Nelson, 1215 Monterey avenue, Berkeley.
COST, $2500

DWELLING
(140) LOTS 1 and 5, Map Craig Properties and lots 15, 17 and W ½ lot 19, Piedmont Tract, Piedmont. All work of exterior and interior lath and plaster for one-story Class C dwelling.
Owner.....Juliette Alexander, Oakland.
Architect....C. W. Dicky, Central Bank Bldg., Oakland.
Contractor..Schnebly, Hostrawser & Pedgrift, 61 Jackson street, Oakland.
Filed Jan. 27, '16. Dated Jan. 25, '16.
First day of each month..... 75%
Usual 35 days 25%
TOTAL COST, $1623
Bond, $811.50. Sureties, J. E. MacCormac and William Makin. Forfeit, none. Limit, February 19. Plans and specifications filed.

ALTERATIONS
(142) NO. 2777 TWENTY-FIFTH AV, Oakand. Alterations.
Owner.....Mrs. McGauley, Premises.
Architect. None
Contractor Alex C. Wieben, 1161 Alice, Oakland.
COST, $100

ELECTRIC SIGN
(143) SW THIRTEENTH and Broadway, Oakland. Electric sign.
Owner.....Owl Drug Co., Premises.
Architect....None
Day's work. COST, $500

ADDITION
(144) NO 1032 SIXTY-SECOND ST., Oakland. Addition.
Owner.....F. Broman, San Francisco.
Architect....None.
Contractor..L. W. Allen, 5521 Marshall street, Oakland.
COST, $800

DWELLING ?us. elz
(145) LOT 4, BLK H VERNON PARK Tract, Oakland. All work except grading and excavating, cement, stone and brick work furnished by owner, for a two-story and basement frame dwelling.
Owner.....Joseph and Kate Bruno.
Architect....None.
Contractor..M. C. Vaughn, 5833 Ayala avenue, Oakland.
Filed Jan. 28, '16. Dated Jan. 27, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days ..... ¼
TOTAL COST, $2556
Bond, $1278. Sureties, Maryland Casualty Co. Forfeit, Limit, none. Plans and specifications filed.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
106	Osborn	Osborn	1750
116	Mah Yin	Walstrom	1190
128	Woodard	Anthony	3900
137	Berryman	Winchester	1200
141	Edgerly	Edgerly	100

DWELLING
(106) E ACTON 100 N Francisco, Berkeley. One-story 4-room dwelling.
Owner.....A. Osborn, 1221 Spruce, Berkeley.
Architect ...None.
Day's work. COST, $1750

FRAME DWELLING
(116) W HILLEGASS AVE 98.33 from Woolsey and 600 from Webster, Berkeley. All work for two-story frame dwelling.
Owner.....Mah Yin, San Francisco.
Architect ...None.
Contractor..Carl Walstrom, 2728 12th Ave., Oakland.
Filed Jan. 25, 16. Dated Jan. —.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1190
Bond, none. Limit, 100 days. Forfeit, $1. Plans and specifications filed.

FRAME DWELLING
(128) LOT 17 BLK "J" Map Northbrae Terrace Tract, Berkeley. All work for two-story frame dwelling.
Owner.....E. D. and Margaret Woodard.
Architect ...Schirmer Bugbee & Co., Dalziel Bldg., Oakland.

Contractor..Anthony & Heyer, Dalziel Bldg., Oakland.
Filed Jan. 26, '16. Dated Jan. 12, '16.
Frame up, rough plumbing and wiring installed $1000
Brown coated 900
Completed 1000
36 days after..... **1000**
TOTAL COST, $3900
Bond, $1950. Sureties, Chas. W. Heyer and M. C. Anthony Bantz. Limit, 100 days. Forfeit, none. Plans and specifications filed.

SHED
(137) E BONAR 150 S Addison, Berkeley. Two-story shed.
Owner.....E. J. Berryman, 1238 Euclid avenue, Berkeley.
Architect....None.
Contractor..Winchester & Gassman.
COST, $1200

ALTERATIONS
(141) NO. 1344 NORTHSIDE AVE., Berkeley. Alterations.
Owner.....C. M. Edgerly, Premises.
Architect....None
Day's work. COST, $400

Building Contracts Awarded

ALAMEDA COUNTY.

117	Hufschmidt	Charleston	2000
118	Garretson	Garretson	2750
119	Same	Same	2800
120	White	White	400
121	Heintz	Federal Sign	750

DWELLING
(117) TAYLOR AVE., Alameda. One-story 5-room dwelling.
Owner.....W. Hufschmidt, 1748 Broadway, Oakland.
Architect...M. L. Newsom, 1748 Broadway, Oakland.
Contractor..C. E. Charleston, 5627 Genoa, Oakland.
COST, $2000

DWELLING
(118) MONTE VISTA AVE., Alameda. One-story 6-room dwelling.
Owner.....J. D. Garretson, 610 Thomas Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2750

DWELLING
(119) MONTE VISTA AVE., Alameda. One-story 6-room dwelling.
Owner.....J. D. Garretson, 610 Thomas Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2800

ALTERATIONS
(125) NO. 1028 EAGLE AVE., Alameda. Alterations.
Owner.....E. H. Brown.
Architect.. None.
Contractor..G. E. Bayles, 1410 37th Ave., Oakland.
COST, $400

ALTERATIONS
(126) NO. 1728 EVERETT, Alameda. Alterations.
Owner.....Mrs. G. F. Nissen, 2500 Eagle Ave., Alameda.
Architect...None.
Contractor..P. B. Martin, 1543 Sherman, Alameda.
COST, $500

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Jan. 15, 1916—LOT 10 BLK "1" Northbrae Terrace, Bkly. Lavina M Rother b J Henry Wolbold to Jacob Kollmer.....Jan. 14, 1916
Jan. 15, 1916—THIRD AND GILMAN Bkly. Southern Pacific Co to Hutchinson Co.....Dec. 27, 1915
Jan. 17, 1916—LOT 10 ELMHURST Court, Berkeley. Thomas W Harris to Van Sant-Houghton Co.....
.....Dec. 30, 1915
Jan. 19, 1916—E LINDEN 139½ N 10th N 60xE 125, Okd. Joe A Hyman to J Henry Eoehrer and Alfred Legault .....Jan. 19, 1916
Jan. 20, 1916—OAKS BLVD 300 N Maple Court, San Leandro. J B Peppin to whom it may concern
.....Jan. 3, 1916
Jan. 21, 1916—LOT 2 BLK "C" Fourth Ave Park, Okd. Grace E Jones to whom it may concern....Jan. 18, 1916
Jan. 22, 1916—POMONA AVE 35x 120 being Lot 156 and N 5 Lot 154 Terminal Junction Tract, Albany. B A Dice by J M Dice to whom it may concern.....Jan. 21, 1916
Jan. 24, 1916—LOT 20 BLK 22 Map Northbrae, Bkly. W N Taylor to J G Taylor.....Jan. 18, 1916
Jan. 25, 1916—LOT 6 BLK 7 Map Blvd. Park, Okd. Chas H Horn to Wm Kleeman.....Jan. 25, 1916
Jan 25, 1916—N BROOKDALE AVE 65 from Courtland Ave being Lot 14 Blk 6, Brookdale Terrace, Okd. Ethie L and Thos A Batte to O G Smith .....Jan. 17, 1916
Jan. 26, 1916—GLENDORA, being Lot 17 Blk 8 4th Ave Heights Tr-ct, Okd. George C Ellis to Edwin C Graff.....Dec. 30, 1916
Jan. 26, 1916—LOT 123 Synder's Piedmont Terrace-by-the-Lake, Okd. Dr W J Dowell to C M Blabon.....
.....Dec. 29, 1915
Jan. 28, 1916—LOT 27 AND NE 10 lot 28 and SW 5 lot 26, Blk D, Map Broadway Terrace, Oakland. F. D. Robbins to whom it may concern
..... Completed —
Jan. 28, 1916—LOT 43 subdivision 19, Map Resubdivision Peralta Park, Berkeley. Guy Taylor to whom it may concern .....Jan. 27, 1916

LIENS FILED

ALAMEDA COUNTY.

Jan. 15, 1916—PTN LOTS 23 AND 24 Blk 41 Map San Antonio, Okd. Eureka Mill & Lumber Co vs Ella Furgerson, John Doe Rogers and Thomas Brown $49.42
Jan. 17, 1916—PTN LOTS 23 AND 24 Blk 41, Freman's Sbdvn Map San Antonio, being No. 1748 18th Ave., Okd. Tom Brown vs Ella Furgerson and L Rodgers.....$65
Jan. 19, 1916—LOT 138 Map Fruitvale Add'n Tract, Okd. Hammond Lumber Co vs J M Ermerins..$53.55
Jan. 20, 1916—LOT 9 BLK "B" Map Oakland Highlands, Okd. Perry C Fry vs A B and Augusta E Chase..
.....$57.95
Jan. 21, 1916—NO. 5356 TRASK, Okd. Spott Bros vs G W Baumann..$83.25
Jan. 21, 1916—S PARDEE 150 W 7th S 96xW 25, Bkly. Hunter Lumber Co vs Gus Johanson and J F Diamond $47.08
Jan. 22, 1916—W MILES AVE 200 S Convert S 40xW 100, Okd. Hunter Lumber Co vs Emelia Siegrist and J W Crow.....$81
Jan. 22, 1916—W LINDEN 93-3 S 21st S 25xW 102, Okd. Joe Carroll vs Oscar Hagland and J Johnson....$22
Jan. 24, 1916—SW SACRAMENTO & Francisco W 80xS 100, Berkeley. Rousseau & Rousseau Inc vs E M Reagh.....$150
Jan. 25, 1916—W LINDEN 93-3 S 21st S 25xW 102, Okd. Sunset Lumber Co vs Oscar Hagland and J Johnson $280.41
Jan. 25, 1916—LOT 10 BLK "D" Map Scenic Blvd Knoll, Okd. Sunset Lumber Co vs G W Baumann.$553.52
Jan. 26, 1916—LOT 20 BLK "B" Adeline Street Ppty, Okd. W H Jones vs J Johnson and Oscar Hagland..$38
Jan. 26, 1916—LOT 16 BLK "E" Map No. 2, San Pablo Park, Bkly. Leo Key vs Meyer Hyman and Gustaf Johanson $15
Jan. 27, 1916—NW GRAND and Oakland avenues, in Bowie Tract, Piedmont. C. B. Stanley vs. Alfred Cords $66.25

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

COTTAGE
HOLLYWOOD NEAR SECOND ST., San Jose. Six-room cottage.
Owner.....J. A. Wagner, 245 S-17th St., San Jose.
Architect...None.
Day's work. COST, $2000

COTTAGE
MARTHA bet. 9th and 10th Sts., San Jose. Five-room cottage.
Owner.....A. S. York, Y. M. C. A., San Jose.
Architect...None.
Day's work. COST, $1600

COTTAGE
NE THIRD AND MARTHA STS., San Jose. Four-room cottage.
Owner.....Robt. Hamilton, 143 Martha St., San Jose.
Architect...None.
Contractor..E. A. Bishop, 680 S-9th St., San Jose.
COST, $1500

COTTAGE
HARLISS near Willow St., San Jose. Four-room cattoge.
Owner.....E. A. Bishop, 680 S-9th St., San Jose.
Architect...None.
Day's work. COST, $1450

ALTERATIONS
MARSHELL AND DELMAS, San Jose Alterations.
Owner.....Mary E. Barstow.
Architect...None.
Day's work. COST, $500

COTTAGE
ELEVENTH near Rosa St., San Jose. Four-room cottage.
Owner.....G. Mazzaminto, Premises.
Architect...None.
Day's work. COST, $450
ALTERATIONS
NOS. 339-341 S-TWELFTH ST., San Jose. Alterations.

Owner.....Mrs. Renzie.
Architect...None.
Contractor..Shottenhamer Bros., 113 S. 16th St., San Jose.
COST, $100

COMPLETION NOTICES.

MARIN COUNTY.

Jan. 27, 1916—SAUSALITO, Marin Co., Cal. Henry Kruse to Peter Hamilton .....Jan. 27, 1916
Jan. 28, 1916—SAN ANSELMO, Marin Co., Cal. R. Atthowe, San Anselmo, to Wm. F. Dwyer .....Jan. 24, 1916

BUILDING CONTRACTS.

SAN MATEO COUNTY.

BUNGALOW
LOT 13, BLK 10, Map No. 2 of Burlingame Terrace. All work for five-room bungalow, sidewalks and garage.
Owner.....Albert G. Mott, Palo Alto, Cal.
Architect....Louis L. Brouchoud.
Contractor..Harry Sibley, Palo Alto, Cal.
Filed Jan. 22, '16. Dated Jan. 21, '16.
Frame and roof completed.....$619
Brown plastered 619
Completed 619
Usual 35 days 620
TOTAL COST, $2,477
Bond, $1,239. Sureties, Globe Indemnity Company. Forfeit, $2. Limit, 84 days. Plans and specifications filed.

RESIDENCE
LOT 19, BALDWIN & HOWELL Resubdivision of San Mateo Park. All work for one-story, five-room frame residence.
Owner.....Georgiana Gray, Burlingame.
Architect....None.
Contractor..S. E. McClure, Burlingame, Cal.
Filed, Jan. 17, '16. Dated Jan. 6, '16.
Frame up $456.37
Enclosed and plastered 456.38
Completed 456.37
Usual 35 days 456.38
TOTAL COST, $1,825.50
Bond, Sureties, Forfeit, none. Limit, 90 days. Plans and specifications filed.

BUNGALOW
LOT 62, STANFORD PARK ANNEX. All work for five-room bungalow.
Owner.....Fred J. and Mary Worrell, Palo Alto, Cal.
Architect....None.
Contractor..Earl D. Minton, Mountain View, Cal.
Filed Jan. 20, '16. Dated Dec. —, '15.
Frame up $375
Plastered 375
Completed and accepted 375
Usual 35 days 375
TOTAL COST, $1,500
Bond, $750. Sureties, J. J. Taylor and E. R. Haller. Forfeit, none. Limit, 50 days from date of filing. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

BRICK BUILDING
LOT 1 BLK 21 of Original Survey of City of Martinez. All work as in plans and specifications for brick building.
Owner.....J. B. Maloche, Main Cor. Castro, Martinez, Cal.
Engineer ...Albert J. Mazurette, Martinez, Cal.
Contractor..J. A. Trowbridge, Martinez.
Filed Jan. 6, 16. Dated Dec. 15, '15.
At such times as sub-contracts are part become due and payable..
TOTAL COST, $3165
Bond, none. Limit, within 60 days. Forfeit, none. Plans and specifications filed.

WAREHOUSE
COMPANY'S WHARF on Suisun Bay. Furnish material and labor to complete erection of wood frame and corrugated iron warehouse.
Owner.....Associated Oil Co., Sharon Bldg., San Francisco.
Architect...None.
Contractor..MacQuiddy & Bean, Pittsburg, Cal.
Filed Jan. 21, '16. Dated Jan. 10, '16.
Upon completion and acceptance of work 75%
Usual 35 days..... 25%
TOTAL COST, $2525
Bond, $1275. Surety, National Surety Co. Limit, forfeit, none. Plans and specifications filed.

STORES AND APARTMENTS
LOT 6 BLK "G" in Central Addition to Town of Diamond, Map filed 1905. Concrete, brick, carpentry, plumbing, electric work, plastering, hardware, glass, roofing and painting for two-story and basement brick and steel stores and apartments.
Owner.....Grabstein Bros., Pittsburg, California.
Architect ...A. W. Cornelius, Merchants National Bank Bldg., S. F.
Contractor..J. I. Mitrovich Bldg. Co., Inc., 1036 Golden Gate Ave., San Francisco.
Filed Jan. 15, '16. Dated Dec. 27, '15.
1st floor joists placed.....$2000.00
2nd floor joists placed..... 2000.00
Roof finished except sky light flashings 2117.00
1st coat plastering on..... 2197.00
2nd coat plastering on..... 2177.00
Contract price for work completed 2177.75
Usual 35 days..... 4156.25
TOTAL COST, $16,625.00
Bond, $8,315. Sureties, Max L. Shirpser and A. Zimmerman. Limit, within six months. Forfeit, none. Plans and specifications filed.

GARAGE AND HOTEL
PITTSBURG. Structural steel work to be delivered f. o. b. cars. Structural steel, cast iron columns, bond iron, anchors, gratings, cornice brackets, plates and other steel work for three-story and basement brick and steel garage and hotel.
Owner.....S. Carusa & Bro., 363 Black Diamond, Pittsburg, Cal.
Architect ...A. W. Cornelius, Merchants National Bank Bldg., S. F.
Contractor..Brode Iron Works, 31 Hawthorne, S. F.
Filed Jan. 15, '16. Dated Dec. 21, '15.
50% of said $1259 when all columns and girders below 2nd story joists are delivered at Pittsburg.....
25% of said $1259 when delivery of work is made at Pittsburg.....
15% of said $1259 35 days after acceptance
TOTAL COST, $1259
Bond, $630. Sureties, Thomas Elam and D. O'Sullivan. Limit, within 20 days from Dec. 21, 1915. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

CONTRA COSTA COUNTY.

RECORDED ACCEPTED
Jan. 10, 1916—LOT SOUTH SIDE OF street in Valona. Antonia Chiafulla to J W Slate.....Dec. 22, 1915
Jan. 12, 1916—COR MT. DIABLO & Fernanda, adjacent to Fuller's Garage. C H Guy to C Randolph Hoak .....Dec. 31, 1915
Jan. 13, 1916—W 33½ LOT 2 BLK 322 Additional Survey of Town of Martinez. Irene Hall Bacon to Carl Overea, Benjamin Hall and Guy O Smith.....Jan. 13, 1916
Jan. 15, 1916—PTN LOT 54 of Final Ptn of San Pablo Ranch and all Lots 15, 16 Blk 24, Richmond. Florence F Schram to Carl Overraa .....Jan. 5, 1916
Jan. 24, 1916—ALL LOT 3 BLK 3, Richmond Tract. George H Hoyt Co to I S Handley.....Jan. 20, 1916
Jan. 24, 1916—LOT 10 BLK "M" Town of Crockett. George H Hoyt Co to I S Handley.....Jan. 20, 1916
Jan. 24, 1916—ALL LOT 9 BLK 2 Map of Austin Tct Addition to Martinez George H Hoyt Co to C D Knotty.. .....Jan. 20, 1916

LIENS FILED.

MARIN COUNTY.

RECORDED AMOUNT
Jan. 22, 1916—SAN ANSELMO. Elling Ellingson vs Harry N McMullen... .....$573

LIENS FILED.

CONTRA COSTA COUNTY.

RECORDED AMOUNT
Dec. 30, 1915—(1) LOT 12 BLK "A" Town of Crolana; (2) Lot 3 Blk 3 of Town of Valona. H B Wessel vs J W and J E Slate.....$167

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING
LOT 8, BLOOMINGTON ADD NO. 2, Fresno. Dwelling.
Owner.....C. G. Eberhart, 713 Weldon, Fresno.
Architect....None.
Day's work. COST, $5,750

FRAME DWELLING
LOT 17, BLK 1, ALTA VISTA TRACT, Fresno. Dwelling.
Owner.....R. F. Andersen.
Architect....None.
Contractor..Hansen Construction Co., 2225 Fresno street, Fresno.
Filed Jan. 25, '16. Dated Jan. 21, '16.
Enclosed ..... ⅓
Completed ..... ⅓
Usual 35 days ..... ⅓
TOTAL COST, $1600
Bond, $800. Sureties, A. W. Andersen and F. G. Holmgren. Forfeit, $5. Limit, 35 days from Jan. 21, 1916. Plans and specifications filed.

DWELLING
LOTS 24 AND 25 BLK 58, East Fresno. Dwelling.
Owner.....Shepherd & Cochrane, 1659 I St., Fresno.
Architect ...None.
Contractor..Gede & Gede, 451 Poplar St., Fresno.
COST, $3560

DWELLING
NO. 3735 IOWA AVE., Fresno. Dwlg.
Owner.....A. A. Koch, 3770 Illinois St. Fresno.
Contractor..H. H. Schenk, 790 T St., Fresno.
COST, $1800

DWELLING
LOTS 10 AND 11 BLK 1 Fresmont Addition, Fresno. Dwelling.
Owner.....J. C. Cape.
Architect ...None.
Contractor..J. E. Cregor.
COST, $1500

COMPLETION NOTICES.

FRESNO COUNTY.

RECORDED ACCEPTED
Jan. 25, 1916—PART OF VILLA LOT 3 in Sec. 18, 16-20, Fresno. Caruthers Union High School District to Geo Shannon.....Jan. 19, 1916

NOTICE OF NON-LIABILITY.

FRESNO COUNTY.

Jan. 21, 1916—LOTS 14, 15 AND 16 Blk 37, Firebaugh, Fresno. E Martinoni as to improvements on leased property.....

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

ALTERATIONS
E ½ LOT 7, D, E, 19th and 20th Sts., Sacramento. Move one-story frame dwelling and place new brick foundation, remodel and general repairs. From No. 1714 E Street.
Owner.....Albert Ziozana, 1915 E St., Sacramento.
Architect ...None.
Contractor..Dan Tatti, 2116 O St., Sacramento. COST, $1100

FURNISH MATERIAL
LOT 176 in Curtis Oaks, Sacramento. Furnish material, etc., on building.
Owner.....Curtis S. Ingram, 2816 33d St., Sacramento.
Architect ...None.
Contractor..Robert Powell, 2811 T St., Sacramento.
Filed Jan. 21, '16. Dated Jan. 17, '16.
COST, $325

ALTERATIONS
E ½ OF N ½ LOT 7 D, E, 19-12, Sacramento. Move present one-story frame dwelling to rear of lot, add new brick foundation and general repairs.
Owner.....Alberto Zaizana, 1915 E St. Sacramento.
Architect ...None.
Contractor..Dan Tatti, 2116 O St., Sacramento. COST, $100

FRAME DWELLING
NO. 3117 E ST., on Lot 186 Casa Loma Terrace, Sacramento. One-story six-room and bath frame dwelling with concrete foundation.
Owner.....W. D. McKoy, 3029 S St., Sacramento.
Architect ...None.
Day's work. COST, $2400

REPAIRS
W ½ OF LOT 7, M, N, 7th and 8th Sts., Sacramento. Repair two-story frame dwelling.
Owner.....G. Williams, 709 N St., Sacramento.
Architect ...None.
Contractor..G. E. Harvle, 2212 T St., Sacramento.
COST, $1200

REPAIRS
NO. 927 SECOND on N 20 feet of S 60 feet, lot 8, I-J-2-3, Sacramento. All work for remodel and repairs to three-story brick store.
Owner.....Ab. Fong (lessee) 917 3rd Sacramento.
Architect....None.
Contractor..Chas. A. Vanina, 2022 M, Sacramento.
COST, $300

FRAME DWELLING
NO. 2118 "S," rear on W 47 feet lot 3, S-T-21-22, Sacramento. One-story frame dwelling, concrete foundation, four rooms and bath.
Owner.....T. L. Nightingale, 1820½ 7th, Sacramento.
Architect....None.
Contractor..E. T. Malthy, 3213½ 3rd avenue, Sacramento.
COST, $1200

STORES AND LODGE ROOMS
LOT 15, BLK 31, South Sacramento. Two-story Denison tile stores and lodge rooms and concrete foundation.
Owner.....Odd Fellows' Building Association, 34th and Sacramento avenue, Sacramento.
Architect....None.
Contractor..T. A. McDougall, 2712 1st avenue, Sacramento.
COST, $8,000

ALTERATIONS
NO. 708 ELEVENTH on S ½ lot 4, G-H-10-11, Sacramento. All work to remodel two-story dwelling.
Owner.....Miss Elsie Anderson, 712 11th street, Sacramento.
Architect....None.
Contractor..Theilbahr & Bender, North Sacramento.
COST, $600

FRAME DWELLING
W ½ OF LOT 6, G-H-21-22, Sacramento. All work for one-story frame dwelling.
Owner.....Dr. Geo. W. Duffiey, 2119 H, Sacramento.
Architect....None.
Contractor..Chas. A. Vanina, 2022 M, Sacramento.
COST, $300

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Jan. 24, 1916—LOTS 22, 40 AND 42 Dye Chinatown Walnut Grove. Corodon and Milo E Dye, Amy Brown and Sperry W Dye as to improvements on leased property.....

PRESIDENT'S IDEA GOOD.

"President Wilson in his annual message to Congress, remarked that 'the industry of this generation should pay the bills of this generation.' We believe it his most courageous and statesmanlike utterance since he entered public life." says **American Defense**, a magazine published for the American Defense Society, in its February issue. "It would have been easier to propose a bond issue to meet the expenses of national defense. He did not do so."

LOSS TO SHIPPING SMALLER THAN EXPECTED.

The losses to British shipping caused by the war have been considerably below what was expected. According to "Fairplay" (London), it was calculated that the initial loss at the outbreak of the war would be 5 per cent, a loss of £4,325,000. For the first six months a further loss of 5 per cent was calculated. From the outbreak of the war till the end of November, 1915, 272 vessels have been lost, out of a total of 4,421 entered for insurance under the British Government scheme, a percentage of 6.14. The losses in money total £9,269,072 out of £153,469,068 in values entered, a percentage of 6.04. In the first six months the losses totaled £2,732,070, 1.78 of the values entered. The calculations as to losses did not include the possibility of passenger ships being sunk at sight. From the lists issued each month by the Liverpool Underwriters' Association, it is calculated that the losses of steamships and sailing vessels, British and foreign, together with their cargoes, during the first fifteen months of the war, amounted to £23,756,251.

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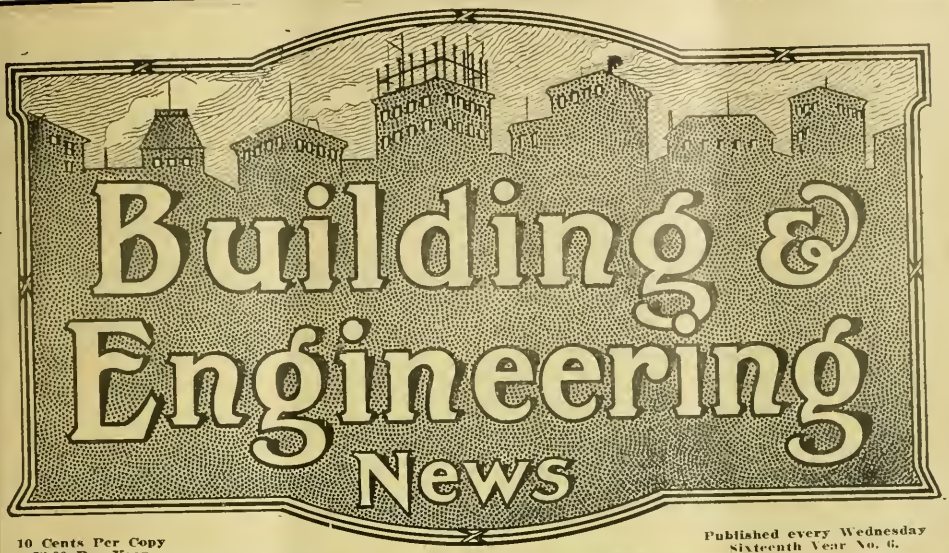

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BAKERS RECOMMEND RAILWAY EXTENSIONS.

Cracker Bakers Local, No. 25, of the Bakery and Confectionary Workers, at their last meeting adopted a resolution recommending certain extensions in the Municipal Railway lines. "The financial success of the Municipal Railways depends on the connecting up of its various lines," says the resolution, a copy of which has been sent to the Board of Supervisors and in part recommends the following extensions:

"The Southern Pacific Depot at Third and Townsend streets is one of the oldest railway terminals and an extension of the Municipal lines from the Stockton street tunnel would be very profitable. A cross-town line between Richmond, Western Addition and Mission Districts will connect up the Geary and Church streets and the Potrero avenue line and place them on a paying basis; the connection of the Church street line with the Van Ness avenue line, via Oak street or other proper route, and a line over the Potrero Hill are needed immediately, and the connection of these and similar extensions will furnish profitable transportation."

The Bakers urge that the Supervisors appropriate $500,000 of the municipal railway funds, now on hand, for the building of these extensions and at the same time protest against the payment of surplus money of the municipal railways to the United Rail Roads or other enemies of the municipal ownership.

LARGER ARMY AND NAVY ASKED BY DEFENSE SOCIETY.

Taking of immediate steps to strengthen the Army and Navy of the United States for defense is demanded in the official platform of the American Defense Society just made public. Principal among the improvements asked are the construction of forty-eight dreadnaughts and battle-cruisers in proportion and the increase of the army to 245,000 officers and men.

All of the features of the platform of the American Defense Society are included in a resolution recently passed by the Advisory Board of the defense organization of which Dr. David Jayne Hill, formerly Ambassador to Germany and Assistant Secretary of State, is president. Colonel Theodore Roosevelt is a member of the Advisory Board.

The resolution, introduced by Henry Reuterdahl, the naval painter, reads:

"We must have a strong navy, fully manned, of forty-eight dreadnaughts, and battle-cruisers, in proportion. The necessary number of scouts, destroyers, and sea-going submarines shall balance the capital fleet; also auxiliaries, colliers, repair ships, tenders, and other necessary craft. Ships shall be laid down immediately.

"We must have a standing army of 200,000 men, and 45,000 officers backed by a national force of citizens trained in arms under a universal and obligatory system. This body shall be of no less strength than 2,000,000 men, fully equipped and with a large reserve supply of artillery and ammunition.

"This shall be America's insurance against war, against invasion, against a foreign flag over Washington; a force of defense which makes the Monroe Doctrine a living fact. And this shall be the true meaning of preparedness. Half-measures are usless and a waste of money."

Colonel Roosevelt was among the men who subscribed to the resolution. Others included Truman H. Newberry, formerly Secretary of the Navy, and Hudson Maxim, the inventor, and both of the Advisory Board, and C. S. Thompson, chairman of the Board of Trustees of the American Defense Society, and Cushing Stetson, secretary to the trustees.

COPYRIGHTING OF ARCHITECTS' PLANS.

An architect's plans are the creation of his brains, evolved from study, experience, a love for the beautiful and knowledge of all that is practical in building. Such being the case, the architect is as much or more entitled to copyright protection than the author who flashes upon the public sensational trash under the name of novel, or the historian or scientist who has devoted his to the collection of the knowledge he thus gives to the public, hoping thereby to reap the just reward for his lahors.

There has not yet been presented a just, valid or reasonable argument why plans and profiles drawn by an architect should not be copyrighted. On the contrary, many sound arguments could be advanced why this should be done.

A man, who seeing a design that pleases him, copies and uses it, is taking the property of another, just as much as if he stepped over a garden fence and helped himself to a neighbor's choicest fruit or flowers. Unless the design is copyrighted there is no legal reason why he should not thus appropriate the work of another.

Copyright protection is something an architect is entitled to and should have, and there is no good reason, ethical or otherwise, why he should not avail himself of the opportunity for this protection. — Mid-West Construction News.

An average of 95 tons of soil and loose rock is washed into the ocean every year from every square mile of the United States, according to the Geological Survey. This estimate does not include the Great Basin. The immensity of this contribution may be better comprehended when it is realized that the surface of the United States covers 3,088,500 square miles.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name withheld. Location, Chenery near 30th street. Will contain a number of two and three room apartments. Interior finish pine and redwood. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base, brick and steel, $20,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Herman Hogrefe, 110 Upper Terrace, S. F. Location, north O'Farrell east of Hyde street, covering an area of 50 by 66 feet. Will contain sixteen apartments of two and three rooms. Interior finish pine and elm panels. Hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Bath rooms tile and composition. Wall beds. Marble and tile vestibule. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $24,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Robert Dewar, Builders' Exchange. Location, north Sacramento west of Pierce, covering an area of 50 by 70 feet. Will contain twelve suites of four rooms and bath. Interior finish pine and hardwood and white enamel. Some hardwood floors. Steam heat and a hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot in vestibule. Exterior covered with cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owner, Dr. Chester Woolsey. Location, south McAllister east of Devisadero. Will contain a number of two and three room apartments with baths and wall beds. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Exterior covered with cement plaster. Plans complete and figures being taken.

SEATTLE, WASH—Apartment house, 5 story and base, reinforced concrete, $60,000. Architect, A. Warren Milner, Haight Bldg., Seattle. Owners, Club and Apartment Building Co. Location, Norman and 31st streets. Will contain nine apartments of two rooms, fifteen of three rooms and seven of four rooms. First floor club rooms. Basement will contain a large swimming tank. Interior finish pine and hardwood. Steam heat, oil burning system and elevator service. Hot water system. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

SAN FRANCISCO—Apartment house, 4 story and base, brick and steel, $25,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Herman Hogrefe. Location, north O'Farrell east of Hyde, covering an area of 50 by 66 feet. Will contain sixteen apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Wall beds. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

LODI, SAN JOAQUIN CO., CAL.—Apartment house, 2 story and base, brick, $15,000. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, O. A. Schroeder, Lodi. Will contain eight apartments of two rooms and four apartments of three rooms. Interior finish pine and elm panels. Some hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

BONDS

PLACERVILLE, EL DORADO CO., CAL.—The question of calling a $25,000 bond issue to finance the paving of Main street will be considered at the next meeting of the City Trustees. It is thought that a date for the election will be set at that time. The street will be paved with mastic pavement instead of asphalt.

MARTINEZ, CONTRA COSTA CO., CAL.—Articles of incorporation of the Brentwood Masonic Hall Association have been filed with the County Clerk. The corporation is capitalized for $25,000, and the stock will be sold to finance the construction of a new building.

ASTORIA, ORE.—The $100,000 bond issue held the latter part of last month carried. The bonds were voted for the erection of a central school building. The matter of selecting an architect is being considered by the school board.

VISALIA, TULARE CO., CAL—Copies of petitions have been received here which are in circulation throughout the county calling for a special election to vote on the question of an issue of $1,250,000 in bonds for the construction of concrete highways.

Two plans are under consideration by the Supervisors, one for the bond issue and the other for construction of roads at the rate of $100,000 by direct taxation.

SANTA MONICA, LOS ANGELES CO., CAL.—The City Trustees are considering the advisability of calling a bond election to vote $20,000 to enlarge the McKinley School on Twentieth street. The improvement includes the adding of a second story.

WHITTIER, LOS ANGELES CO., CAL.—A bond election will be held March 14 for the purpose of voting bonds in the sum of $11,000 for improvements to the municipal water system. Under the direction of F. C. Roberts of Los Angeles, as consulting engineer, the City Trustees have developed plans for a plant to supply the northwest part of the city, with a reservoir above the level of any of the existing ones.

SAN DIEGO, SAN DIEGO CO., CAL.—The Board of Supervisors is considering the advisability of calling an election to vote a $400,000 bond issue for repairs to roads and bridges damaged by the recent heavy rains and for additional construction work. According to report received by County Surveyor George Butler, approximately thirty bridges were washed out or damaged entailing a loss of about $300,000. The majority of these were combination steel and timber structures.

AUBURN, PLACER CO., CAL.—The City Trustees have passed a resolution authorizing the sale of $22,000 bonds, recently voted for municipal improvements. The sale will take place February 21st.

The $22,000 bond issue is distributed as follows: Fire alarm system, $2,000; fire truck, $5,000; septic tank and sewer system, $15,000.

COLUSA, COLUSA CO., CAL.—Plans are being started to get together a local company for the purpose of building a hotel on Fifth and J streets. It is intended to capitalize at $200,000, and construct a four-story building with modern conveniences.

OROVILLE, BUTTE CO., CAL.—The Butte County Grand Jury has passed a resolution, requesting the State Highway Commission to keep faith with Butte County in the matter of the sale of state highway bonds.

The resolution, introduced by W. P. Lynch of Chico, points out the fact the Highway Commission promised to sell the county $475,000 worth of bonds and that but $325,000 has been allowed the county.

The resolution urges the Board of Supervisors to demand of the commission the right to purchase more bonds from the $1,500,000 allotment still unsold.

ALBANY, ALAMEDA CO., CAL.—A mass meeting to discuss plans for calling a bond election for the erection of a $25,000 city hall in Albany has been called.

An offer of five lots with a total frontage of 150 feet has been made to the town board by the Realty Syndicate of Oakland, providing that a city hall be built within a year. The property faces on Main and Ramona avenues and is in the center of the town.

LAKEPORT, LAKE CO., CAL.—The sum of $3,050 has been subscribed in Lakeport toward the purchase of a site for a new high school. Three thousand two hundred dollars is the amount desired.

When the money is raised the Trustees will call an election for a bond issue of $25,000 to build the school. The present rented quarters are inadequate.

SANTA ANA, ORANGE CO., CAL.—The Board of Supervisors is considering a bond election to vote $200,000 to replace bridges and roads destroyed in the recent storms.

POMONA, LOS ANGELES CO., CAL.—A bond issue of $150,000 will be called shortly by the City Trustees for the improvement of streets.

The Board of Trustees will set a date within the next few weeks to vote on the proposition of issuing and selling bonds for the paving of Main street; also for the erection of new schools. The paving bonds issue will be about $45,000.

BRIDGES, DAMS AND HARBOR WORK

FORT BARRY AND FOR BAKER, CAL.—Wharf repairs, timber. Cost not stated. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received on February 14th for repairs to the wharves at Fort Barry and Fort Baker. Plans and specifications can be secured from the office of the Constructing Quartermaster at Fort Mason. An official proposal appears in another column of this issue.

OAKLAND, CAL. — Dolphins, pile. Cost not stated. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received until February 14th for constructing pile dolphins at the Webster street bridge, between Oakland and Alameda. Plans can be secured from the County Clerk.

SEATTLE, WASH. — Bridges, steel and concrete. Cost as follows. Engineer, County Surveyor, Seattle. Owners, King County. Bids are now being taken by the King County Commissioners for the construction of the Fall City and Stossel bridges. Bids on the work close February 21st. The Stossel bridge will be 209 feet long, costing $17,500; and the Fall City bridge about 180 feet long, costing $35,000. Plans for this work may be had from the County Clerk at Seattle.

Contracts Awarded

ABERDEEN, WASH.—Bridge superstructure, $15,692. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners, City of Aberdeen. Contractor, A. R. Eichler, Aberdeen. Contract price, $15,692.

CHURCHES

PALO ALTO, SANTA CLARA CO., CAL.—Church, 1 story and base, frame, $15,000. Architect, Elmer Grey, Wright and Callender Bldg., L. A. Owners, First Church of Christ, Scientist. Will contain large auditorium, reading rooms and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass windows. Exterior covered with cement plaster on metal lath. Plans being prepared.

PETALUMA, SONOMA CO., CAL.—Convent and auditorium, 2, 2 story, frame and concrete. Cost not stated. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Sisters of St. Vincent's Academy. Auditorium will be of frame and plaster and the dormitory of reinforced concrete. Plans have not progressed far enough to give details.

Contracts Awarded

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Church, 1 story, hollow tile, $24,000. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, First Congregational Church. Contractor, George A. Daniels, 916 Herkimer street, Pasadena. Contract price, $24,000.

COURT HOUSES.

PRESCOTT, ARIZONA—Court house and jail, 2 story and base. Class A construction. Three architects have been selected to prepare competitive plans for the new $250,000 court house to be erected in Prescott, Arizona, by Yavapai County. Norman R. Coulter, San Francisco; De Longchamps of Reno, Nev.; and Bowman of Denver, Colo., will submit plans on February 28th.

WOODLAND, YOLO CO., CAL.—Court house, 2 and 3 story and base, reinforced concrete, $250,000. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Yolo County. Plans for this building have been completed and approved by the County Supervisors. Bids are now being called for on the removal of the old buildings. Within a few weeks figures will be asked for on the first unit of the court house. Further mention will be made of the work.

FACTORIES AND WAREHOUSES

OAKLAND, CAL.—Factory, 2 story and base, steel and concrete, $300,000. Engineer, L. S. Rosener, Merchants' Exchange Bldg., S. F. Owners, Moore & Scott Iron Works. Location, east Adeline south of First. Designed for manufacturing purposes. Heavy construction. No interior finish. Exterior faced with brick. Contract for the structural steel awarded to Pacific Rolling Mill Co. and balance of the work to be done by Day Labor under the direction of the owners.

LOS ANGELES, CAL.—Warehouse, 5 story and base, reinforced concrete. Cost not stated. Architects, Dodd & Richards, Brockman Bldg., L. A. Owners, H. R. Boynton Co., Location, Bay near Santa Fe avenue, covering an area of 74 by 140 feet. Reinforced concrete floors and walls. Metal window sash and frames. Metal covered doors. No interior finish. Elevator service. Automatic sprinklers. Exterior faced with cement plaster. Plans being prepared.

SEATTLE, WASH.—Factory, 2 and 3 story and base, reinforced concrete, $300,000. Architect's name not given. Owners represented by A. J. Capron. Preliminary plans have been completed by one of the largest paint and varnish manufacturing companies in the country for a concrete factory plant that will be erected on a plot of land in Duwamish Valley. A. J. Capron, Ainsworth Bldg., Portland is representing the owners. Capron has the tentative sketches for the proposed buildings to be erected and which are as follows (reinforced concrete construction): 60 by 200, 3 story; 40 by 60, 2 story; 40 by 40, 3 story; 60 by 200, 3 story.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Fire house, 2 story and base. Class C construction, $43,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. A complete list of the bids opened for the construction of Engine House No. 1, to be erected on Howard street between Second and Third streets, will be found under the heading of San Francisco.

FIRE REPORT

RIVERSIDE, RIVERSIDE CO., CAL. The new hotel, not yet occupied, on the lake front at Elsinore, was destroyed last week. The loss is $100,000, believed to be partly covered by insurance. The property was owned by Mrs. Orpha Eastman of Los Angeles.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, C. A. Rushton, 751 9th avenue, S. F. Location, west 9th avenue south of Cabrillo. Will contain two flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

PASADENA, LOS ANGELES CO., CAL.—Garage, 1 story and base, brick. Cost not stated. Architect, Myron Hunt, Hibernian Bldg., L. A. Owners, Willys-Overland Co. Location, southeast Colorado and El Molino. Will cover a considerable ground area. Construction fire proof. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with pressed brick. Plans complete and figures to be taken at once.

FRESNO FRESNO CO., CAL.—Garage, 1 story, frame, $5,000. Architect, none. Owner, W. M. Shooshan, 459 J street, Fresno. Concrete floor. Special wireing and gasoline tank. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Uniform Federal Buildings Urged.

The board of directors of the American Institute of Architects placed itself on record as being heartily in accord with two recommendations made in the House by Representative Clark, of Florida, chairman of the public buildings and grounds committee. The first of these is that there should be at the head of the supervising architect's office an architect of first-rate caliber. The second is that a plan should be deised for a standard system of appropriations regulating the size and cost of post office buildings to the needs of communities, together with a standardization of the types of buildings.

The board of directors, which is holding a three-day session in the Octagon House, 18th street and New York avenue, and which is composed of representative architects from all sections of the country, passed a resolution to this effect, which resolution was conveyed to Mr. Clark in a personal letter. The letter, however, points out that when Mr. Clark is quoted as saying that architects generally are opposed to the idea of standardization he is in error.

"You will doubtless recall," it says, in part, "that three members of the board of directors appeared at two hearings of your committee about one year ago and strongly urged the adoption not only of standardized types of buildings along lines suggested by us at that time, but of a standardized system of appropriations regulating the size and cost of the buildings directly to the postal needs of the community.

"Your committee was kind enough to pass a formal vote of thanks to us for the assistance which we were able to give you, and to couple with it expressions of appreciation for the disinterestedness of our service in devoting a considerable amount of time and study to a class of buildings, which, necessarily, are designed entirely in the office of the supervising architect and for which the private architect is never employed."

In its resolution the board states that both the plans recommended by Chairman Clark can be accomplished in such a way as to be entirely practicable and that it thereby offers its assistance in the working out of the details of standardization.

The board of directors of the American Institute of Architects favors standardization, but believes that trouble is due to its methods of application. Appropriations for such buildings as post office, it points out, do not specify cost, but place a limit beyond which the cost may not go. Although the office of the supervising architect might be able to supply the need of a community for a post office adequately at a cost less than the limit named, the representatives of the district within which it lies will not permit of any sum less than the specified high limit being used, and therein is found the often seen inappropriateness and extravagant cost of the structures.

In other words, the fault lies in the manner of appropriations.

Nor can the indischiminate use of the standardized type be recommended, it feels, nor is it as feasible as Mr. Clark seems to think, for the reason that hardly any two sites for public buildings are alike, either in size or shape. Architects generally, as represented by the Institute, are not opposed to the idea, but do think that it is one that must be most carefully worked out.

Pearl Harbor, Marine Railway.

The contract for the construction of a marine railway at Pearl Harbor, Hawaii, has been awarded to the Spaulding Construction Co., of San Francisco, Cal., at $95,275.

Cavite, Radio Station.

The bid of the Construction Engineering Co., of 1047 Folsom street, San Francisco, Cal., $42,800 in amount, has been accepted for the construction of buildings at the Cavite radio station.

HOSPITALS

OAKLAND, CAL.—Vacuum cleaning for infirmary. Cost not stated. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Alameda County. Bids will be opened on March 6th for furnishing and installing the vacuum cleaning equipment in the new County Infirmary. Plans can be secured from the architect.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital, 1 and 2 story and base, reinforced concrete. Cost not stated. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. The date for receiving bids for the erection of a new hospital building at the County Hospital site near San Bernardino has been postponed by the Board of Supervisors to 11 a. m. of Monday February 14, 1916. The date had previously been set for Monday, January 31, 1916.

LOS ANGELES, CAL.—Clinic, 1 and 2 story and base, reinforced concrete. Cost not stated. Architect, Arthur B. Benton, 114 North Spring street, L. A. Owner, O. T. Johnson. Location, Castelar street covering an area of 50 by 120 feet. Arranged for offices, wards and operating and dispensing rooms. Interior finish pine and hardwood and white enamel. Hardwood and tile floors. Steam heat and special hospital plumbing and fixtures. Exterior faced with cement plaster. Plans complete and figures being taken.

HOTELS

SAN FRANCISCO—Hotel and stores, 4 story and base, brick and steel, $25,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, H. Cohn, 1824 Market street. Location, south Geary west of Hyde, covering an area of 45 by 78 feet 10 inches. Will contain stores on the first floor besides the office. Upper floors arranged for single rooms and baths. Interior finish pine. Steam heat, oil burning plant, automatic elevator and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans prepared and ready for figures in two weeks.

LOS ANGELES, CAL.—Hotel, 4 story and base, brick and steel, $50,000. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owner's name not given. Location, North Broadway near Tunnel. Will contain a total of 76 rooms and a number of baths. Interior finish pine and hardwood with some ornamental plaster. Steam heat, elevator service and hot water system. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

SEATTLE, WASH.—Hotel and stores, 4 story and base, brick and steel, $45,000. Architects, Thompson & Thompson, Mutual Bank Bldg., Seattle. Owners Chinese Masonic Association. Contractor, Hans Pederson, Alaska Bldg., Seattle. Contract price, $45,000.

SEATTLE, WASH.—Hotel and offices, 9 story and base. Class A construction, $232,000. Architect, A. Warren Gould, American Bank Bldg., Seattle. Owner, James Moses, New York Bldg., leased to the Artic Club. Contractor, Hans Pederson, Alaska Bldg., Seattle. Contract price, $232,000.

IRRIGATION PROJECTS

SAN FERNANDO, LOS ANGELES CO., CAL.—Four bids for furnishing 3,000 feet of 54-inch pipe for the San Fernando Valley Irrigation District were received. They are as follows: Llewellyn Iron Works, Main and Redondo streets, Los Angeles, $7.37 a foot, deliveries to begin May 1; Baker Iron Works, $6.62 a foot and 2 cents a pound for bends; Western Pipe and Steel Company, 444 Market street, San Francisco, $6.76 a foot and ½ cent a pound for bends; Lacey Mfg. Co., Flood Bldg., San Francisco and Los Angeles, $7.11 a foot and 1 cent a pound for bends. The bids were referred to Chief Engineer Mulholland of the district and the county counsel for report. The contract will be awarded shortly.

RAILROAD CONSTRUCTION AND EQUIPMENT.

LODI, SAN JOAQUIN CO., CAL.—Railroad extension. Cost not stated. Engineer, Engineering Department Western Pacific Railroad Co., Mills Bldg., S. F. Owners, Western Pacific Railroad Co. The engineering department of the Western Pacific Railroad is working on plans for their road to tap the Lodi fruit shipment district in competition with the Southern Pacific and Santa Fe. Surveyors have already finished their work. One of the routes suggested is a brance to run direct from Kingdon to Lodi, and then curve back to the main line by way of Woodbridge and Thornton. Further mention will be made of this work.

RESIDENCES.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, E. A. Schkade, 240 20th avenue, S. F. Location, west 18th avenue north of Balboa. Each will contain six rooms, bath and basement garage. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO—Residences, 4, 2 story and base, frame, $2,000 each. Architect, M. Lichtenstein, 111 Ellis street, S. F. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, Mission west of Santa Marina. Each will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence alterations, frame, $2,800. Architect, none. Owner, A. B. Snider, 1351 Kansas street, S. F. Location, west Vermont south of 24th. Will contain living rooms and a gymnasium. Interior finish pine with some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 5, 2 story and base, frame, $3,000 each. Architect, none. Owner, Thomas Hamill, 5535 Geary street. Location, east 30th avenue north of Clement. Each will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some gum. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, F. Nelson, 30 Pre-

sidio Terrace, S. F. Location, north Parnassus west of Hillway. Will contain six rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, John Ogden, 2046 Rutherford avenue, Oakland. Location, San Juan west of Rosedale. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,000. Architect, none. Owner, Ole Kolen, 3127 Bruce street, Oakland. Location, northeast 39th street and Lincoln. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor, Syndicate Bldg., Oakland. Location east Golden Gate south of Acacia. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,500. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, J. B. Wrangham. Location, Baly Park. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and bids in. Contract to be awarded at once.

STOCKTON, SAN JOAQUIN CO., CAL.—Residences, 3, 2 story and base, frame, $6,500. Architect, Joe Losekann, San Joaquin Bldg., Stockton. Owner, F. J. Campodonico. Location, corner of Willow and Commerce streets. Each will contain five rooms, bath and sleeping porch. Interior finish pine and elm panels. Some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and figures being taken.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, George F. Thackeford. Location American and Fourth streets. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior rustic. Plans complete and work by Day Labor.

FRESNO, FRESNO CO., CAL.—Residences, 2, 2 story and base, frame, $2,500. Architect, none. Owner, W. H. Ackerman, 3rd and Huntington streets, Fresno. Location, Alta Vista Tract. Each will contain five rooms and bath. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

MARTINEZ, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, Leo Ellis, Shreve Bldg., S. F. Owner, Frank J. Barnard, Martinez. Location, Austin Tract. Will contain seven rooms, bath and sleeping porch. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire places and furnace heat. Automatic water heater. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story, attic and base, frame, $10,000. Architect, Frederick D. Boese, New Call Bldg., S. F. Owner, Mrs. Mina B. Bernhard. Location, north Filbert west of Devisadero. Will contain ten rooms, three baths and sleeping porch. Interior finish pine, hardwood, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile. Exterior covered with brick veneer and cement plaster Plans bein prepared.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architects, Schirmer & Bugbee, Dalziel Bldg., Oakland. Owner, Mr Lane. Location, Bowie street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owners, Boyd and Carlos, Hudson and Claremont streets, Oakland. Location, east Claremont avenue north of Hudson. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, south Francisco west of Short. Will contain five rooms, bath and sleeping porch. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire place and tile mantel. Composition in bath room. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owners, Harris and Hudson, 1957 East 38th street, Oakland. Location, northeast corner Hopkins and Canon streets. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Composition floor in bath room. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, L. G. Pfrang, 5141 Shafter avenue, Oakland. Location, west Emerald north of 41st street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room composition. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, C. E. Sinclair, 5323 Locksley avenue, Oakland. Location, north Napa west of Hopkins. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner, Amala D. Deckelman. Location, 19th avenue. Will contain seven rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, Harrison Tucker. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location east Acton south of Francisco. Each will contain five rooms and bath. Interiors finished in pine and redwood. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors rustic and cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, east Lawton near Hudson. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences, 9, 1 story and base, frame, $2,000 each. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, Francisco street. Each will contain five rooms and bath. In-

teriors finished in pine with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Frohman & Martin, Slavin Bldg., L. A. Owner's name withheld. Will contain eleven rooms three baths and a separate garage. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Central heating system, hot water supply and open fire places. Mantels tile and brick Bath rooms tile. Exterior cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Residence, 3 story and base, frame. Cost not stated. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owner, H. C. Oakley. Location, Brentwood Park. Will contain twelve rooms and several baths. Interior finish hardwood and white enamel. Hardwood and tile floors. Furnace heat, hot water circulating system and vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Residence, 2 story and base, frame, $15,000. Architect, E. J. Borgmeyer, Stimson Bldg., L. A. Owner, Mathew Fecher. Location, Normandie avenue. Will contain twelve rooms and three baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water system and vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Harold B. Dunn, Van Nuys Bldg., L. A. Owner, G. L. Crenshaw. Location, Lafeyette Square. Will contain seventeen rooms and four baths. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and hot water system. Bath rooms tile. Hardwood floors. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

SCHOOLS

ALAMEDA, ALAMEDA CO., CAL.—School addition, 2 story and base, brick. Cost not stated. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, City of Alameda. Building will be known as the Washington School. Addition will consist of two wings. Interior finish pine with maple floors in the class rooms. Steam heat, oil burning equipment and vacuum cleaning. Program clocks. Exterior faced with pressed brick. Plans complete and bids being taken. Bids will be opened on March 7th. Plans can be secured from the architect. An official proposal appears in another column of this issue.

LOS ANGELES, CAL.—School, 1 story and base, brick, $15,000. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owners, City of Los Angeles. Location, 7th street near Mateo. Will contain two class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and modern school plumbing. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

SAN BRUNO, SAN MATEO CO., CAL. School plumbing, $2,441. Architect, none. Owners, San Bruno School District. Contractors Murray Co., 228 Webster street, Oakland. Contract price $2,441.

PETALUMA, SONOMA CO., CAL.—School addition, 1 story, frame, $2,400. Architect, none. Owners, City of Petaluma. Contractor, N. G. Ingerson, Petaluma. Contract price, $2,400.

SEWERS, STREET WORK & WATER SYSTEMS

ANTIOCH, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. Bids will be opened on February 14th for the construction of 4-inch vitrified, salt-glazed ironstone pipe lateral sewers in Sixth and Seventh streets from existing main sewers in said streets to the curb lines at the places and in the manner shown and designed on the plans and specifications, and that said lateral sewers be connected with said main sewers with Y branches and that said Y branches be furnished and installed to connect said lateral sewers with said main sewer where the same do not already exist.

ANTIOCH, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. Bids will be received until February 14th for the construction of 4-inch vitrified, salt-glazed ironstone lateral sewers in Second street and Fourth street in the town of Antioch from existing main sewers in said streets to the curb lines at the places and in the manner shown and designated on the plans and specifications, and that said lateral sewers be connected with said main sewers with Y branches, and that said Y branches be furnished and installed to connect said ateral sewers with said main sewers where the same do not already exist.

RICHMOND, CONTRA COSTA CO., CAL.—Storm water sewer, $90,000. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. City Engineer Chapman has completed plans and specifications and has presented them to the City Council for a new storm sewer six feet in width to extend from the northern part of the city on 10th street to the Cutting Canal. According to Chapman the sewer will drain 45,000,000 square feet of land in that district and will eliminate all further flooding. Further mention will be made of this work.

SALINAS, MONTEREY CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor Cozzens, Salinas. Owners, Monterey County. County Surveyor H. F. Cozzens has completed plans and specifications for the eight-mile strip of road macadam from the Laurellos road to the Monterey city limits. The plans will be presented to the Supervisors at their next meeting and it is probable that bids will be called for at that time. This improvement will corsist a twelve-foot strip of oiled macadam with a three-foot shoulder of waste on each side, giving a roadbed 18 feet wide. Further mention will be made of this work when the plans have received the approval of the Supervisors.

BAKERSFIELD, KERN CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. The City Engineer is preparing pans for the paving of a number of streets and street crossings in Bakersfield, and will submit sketches for the work at the next meeting of the City Council for approval. Bids on the work will be called for on the approval of the plans. Further mention will be made of this work.

PLACERVILLE, EL DORADO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Placerville. Owners, City of Placerville. Steps are now being taken by the City Trustees for the paving of Main street. It is thought that the street will be paved with mastic pavement instead of asphalt. The improvement will cost about $25,000, and will be taken up at the next meeting. Further mention will be made of this work.

LODI, SAN JOAQUIN CO., CAL—Subway, concrete. Cost not stated. Engineer, City Engineer L. S. Baizeletti, Lodi. Owners, City of Lodi. L. Bauman, engineer for the Southern Pacific Company and City Engineer L. S. Baizeletti conferred concerning the proposed subway under the Pine street crossing of the railroad company's tracks. A decision was reached whereby the City Engineer will prepare plans and estimates for consideration of the City Trustees. The railroad probably will bear part of the expense. Further mention will be made of this work.

SACRAMENTO, CAL.— Street paving. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Plans have been approved and the City Commission has ordered bids received for the paving of 14th street from Q to Y. The improvement will consist of an asphalt pavement, curbs, gutters and sidewalks. Plans may be had from the City Clerk.

VENTURA, VENTURA CO., CAL.—Highway construction. Cost not stated. Engineer County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors of Ventura County up to 11 a. m. of February 14, 1916, for improving two miles of the Ventura-Nordhoff road. The work will include 50,700 cubic yards of excavation, including borrow, 40 yards of Class B concrete in culverts, 648 lineal feet of 18-inch and 36-inch corrugated iron pipe, 3,000 pounds of steel, etc.

Contracts Awarded.

SAN FRANCISCO—Street improvement. Cost not stated. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The following contracts for street work have been awarded by the Board of Public Works: Improvement of 37th avenue from Anza to Balboa; awarded to Owen McHugh, Russ Building. Improvement of Wood between Geary and Laurel Hill Cemetery; awarded to Flinn & Treacy, First National Bank Building. Improvement of Winfield avenue between Cosa and Esmeralda; awarded to F. R. Ritchie, Chronicle Building. Sewer, 47th avenue, Lincoln Way and Irving; awarded to R. Nugent, 2165 Market street. Construction of sidewalks on Harrison between 9 th and 10th; awarded to C. C. Christensen. Improvement of Valley

treet from Sanchez to Noe; awarded o Flinn & Treacy, First National Bank uilding.

SAN BRUNO, SAN MATEO CO., CAL. —Sewer construction. $20,810.01 Engineer, City Engineer, San Bruno. Owners, City of San Bruno. Contractor, C. . Vineent, 193 Montecito avenue, Oakland. Contract price, $20,810.01. The ollowing bids were submitted: D. O. hurch, 68 Post, S. F., $26,341.71; C. D. incent, 193 Montecito, Oakland, $20,-10.01; Chambers & Heafey, Bacon ldg., Oakland, $21,755.32; Daniel L. einfield & Co., $24,849; Frank S. Osrander, S. F., $24,860.22; City Street nprovement Co., Whittell Bldg., S. F., 22,285.01; Pietro Depavo, $24,135.30.

SAN JOSE, SANTA CLARA CO., CAL. —Street pavement. Cost not stated. ngineer, City Engineer, San Jose. wners, City of San Jose. Contractors, aisch Improvement Co., Crocker ldg., S. F. Contract covers two separate jobs. Contract price not stated.

SAN BRUNO, SAN MATEO CO., CAL. treet improvement, walks and gutters, $2,831.77. Engineer, City Engineer, an Bruno. Owners, City of San Bruno. ontractors, Johnson & Dam, San runo. Contract price, $2,831.77.

BERKELEY, ALAMEDA CO., CAL.— ewer construction. Cost as follows. ngineer, City Engineer, Berkeley. wners, City of Berkeley. Contractor, ichael Heafey, 2320 McKinley avenue, erkeley. Contract price, vitrified, ronstone pipe sewer, 6- inches diamter, per linear foot, 82 cents; 8-inch orrugated pipe, per linear foot, 82 ents; concrete catchbasins, each, exra, $20.

SACRAMENTO, CAL. — Furnishing ement. Cost as follows. Engineer, tate Engineer, Sacramento. Owners, tate of California. Contractors, Paific Portland Cement Co., Pacific Bldg., . F. Contract price, 18,000 barrels at 1.50 per barrel.

STORES AND OFFICES.

SAN FRANCISCO—Stores, 1 story and ase, brick and steel, $10,000. Archiect, Louis M Gardner, Phelan Bldg., . F. Owners, Lang Investment Co. Vill cover an area of 50 by 120 feet. rranged for two stores. Interior finsh pine and hardwood. Patent store ronts and marble bases. Exterior aced with pressed brick. Plans being repared.

SAN FRANCISCO—Store alteration, rame, $5,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owners, Eisenbach Co., Flatiron Bldg. Location, 247 Devisadero street. Work will onsist of raising the present twotory flat building and rearranging the irst floor for two modern stores. Included in the work will be new plastering, mill work, painting and electric work. Patent store fronts and marble bases will be used. Plans are being prepared and the work will be done by Day Labor.

SAN FRANCISCO—Stores and offices 8 story and base. Class A construction. Cost not stated. Architect, J. R. Miller, Lick Bldg., S. F. Owner, Claus Spreckels. The architect states that the present Claus Spreckels Annex now undergoing extensive alterations, will be razed to the first story and later completely demolished and replaced by a new Class "A" store and office building of at least eight stories. The original contract called for raising the upper floors of the building to the present floor level of the Claus Spreckels Building and rearranging the interior so that the elevator service of the Spreckels Building could be used in the annex. In striping the building four of the columns in the front running from the second to the fourth floors were found to be weak and would have to be renewed. It was also found that the west wall was in such a condition that it would have to be torn down. With this extra expense to be met it was thought cheaper to tear down the building and construct a new building on the site. Leases on the ground floor have from two to three years yet to run and at this time the building will be torn down to the second floor and roofed over. When the leases have expired construction will be started on the new building.

SAN FRANCISCO—Offices, 10 or 12 story and base. Class A construction. Cost not stated. Architect Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner's name withheld. Location, southeast corner of Montgomery and California streets, covering an area of 87½ by 137½ feet. Only preliminary sketches have been made for this important improvement and details are not available. It is reported that the first floor will be leased to a banking institution. Further mention will be made of the work as plans progress.

OAKLAND, CAL.—Market, 1 story and base, brick and steel. Cost not stated. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owner, A. Palladini. Location, Washington street, covering an area of 50 by 75 feet. Will contain a large and modern fish market. Concrete and tile floor. Marble and tile counters. Patent store fronts and marble bases. Interior finish pine and white enamel. Exterior faced with pressed brick. Plans complete and figures being taken.

MARTINEZ, CONTRA COSTA CO., CAL.—Stores and Offices, 2 story and base, brick, $5,000. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, C. H. Hayden. Will contain a store on the first floor and small offices on the upper floor. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Store alterations, $750. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, A. Hinkelmann. Location, 7th and Macdonald avenue. Work will consist of tearing out old front and replacing same with patent front. Electric work, plastering, mill work and painting will be included. Plans are being prepared.

STOCKTON, SAN JOAQUIN CO., CAL. —Store, 1 story, brick, $2,500. Architect, none. Owner, W. J. Hamman, 129 South California street, Stockton. Location, South California between Washington and Lafayette streets. Will contain one store. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work by Day Labor.

CAMARILLO, VENTURA CO., CAL.— Store and offices, 2 story and base, brick, $10,000. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, The Camarillo Mercantile Co. Will contain stores, restaurant, a public hall and offices. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

THEATRES

SAN FRANCISCO—Theatre, 1 story and base, reinforced concrete and steel, $68,000. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Mason Street Theatre Co. Location, west Mason between Turk and Eddy, covering an area of 75 by 105 feet. Construction, fireproof. Designed for motion pictures. Interior finish pine and ornamental plaster. Plans being prepared.

SEALED PROPOSALS

PROPOSALS FOR REPAIRS.

1. Sealed proposals, in triplicate, will be received here until **10 a. m., March 2, 1916**, and then opened, for furnishing the labor, materials and appliances necessary to perform repair work at the San Francisco National Cemetery, Presidio of San Francisco, Calif., in accordance with the specifications hereto attached.

2. Bidders should note prices on items of work as follows:

(a) Lump sum for work provided for in Paragraph 7, a and b of the specifications.

(b) Lump sum for work provided for in Paragraph 8 of the specifications.

(c) Lump sum for work provided for in Paragraph 9 of the specifications.

Unless bidders qualify their proposals by stating that they will not accept award for less than all of the work bid for, the Government will exercise the right of awarding contract according to its best interests for a single item of work or for any number of items, at the prices stated in the proposal.

3. Proposals must be out on Q. M. Corps Form No. 118.

4. Attention is invited to the General Instructions to Bidders (Form No. 109b), hereto attached, which in so far as applicable form a part of this circular. With reference to Paragraph 6 of said Instructions to Bidders, contract will not be made subject to approval of the Quartermaster General (formerly Chief of the Quartermaster Corps.)

5. Proposals should be enclosed in sealed envelopes marked "Proposals for Repair Work" to be opened **10 a. m. March 2, 1916**, and addressed to the Depot Quartermaster, Fort Mason, San Francisco, Calif. W. H. HART, Lieutenant Colonel Q. M. Corps, D. Q. M.

PROPOSALS FOR BUILDING.

BUILDING—Department of the Interior, Office of Indian Affairs, Washington, D. C.—Sealed proposals plainly marked on the outside of the sealed envelope "Proposals for Additions to Stone Dormitory, Leupp School, Arizona" and address to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until **2 o'clock p. m of February 21, 1916**, for furnishing materials and labor for additions to stone dormitory, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the United States Indian warehouses at Chicago, Ill., and St. Louis, Mo., and Builders' Exchange, St. Paul Minn., and at the office of the superintendent of the Leupp School, Leupp, Ariz. For further information apply to the superintendent of the Leupp School. CATO SELLS, Commissioner.

PROPOSALS FOR STONE.

STONE U. S. Engineer Office, First District, 802 Couch Building, Portland, Ore. Sealed proposals for furnishing stone for north jetty construction at mouth of Nehalem River, Ore., will be received here until **11 a. m. February 21, 1916**, and then opened. Information on application.

PROPOSALS FOR CEMENT.

CEMENT—Sealed proposals will be opened by the light house inspector,

Ketchikan Alaska, at **2 o'clock p. m. March 1, 1916,** for furnishing and delivering f. o. b. lighter at Katalla, Alaska, approximately 300 barrels of Portland cement for Cape St. Elias Light Station. Information upon application to above office.

PROPOSALS FOR STEEL CASES.

STEEL CASES — Treasury Department, Office of the Supervising Architect, Washing, D. C.—Sealed proposals will be received at this office until **3 p. m. February 15, 1916,** and then opened, for supplying steel cases for the U. S. post office buildings at Philadelphia, Pa., and Salt Lake City, Utah, to be made in strict accordance with department drawings and specifications. The department reserves the right to reject any or all bids and to waive defects. Telegraphic bids or modifications of bids will not be considered. Each proposal must be accompanied by a certified check in the sum of 10 per cent of the aggregate amount thereof, drawn to the order of the Treasurer of the United States as a guarantee of good faith. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1009 — Proposals for Car Wheels, Body Bolster Bearings, Bed Hinges, Spring Plates, Bronze Bars, Sheet Brass, Babbitt Metal, Copper Tubing, Nails, Bolts, Rivets, Screws, Nuts Washers and Fire Clay.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m., February 15, 1916,** at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1009) may be obtained from this office or the offices of the assistant purchasing agents, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR BRIDGE.

BRIDGE—Office of the Board of Road Commissioners for Alaska, Valdex, Alaska.—Sealed proposals for furnishing material for one 300 feet span steel highway bridge will be received at the U. S. engineer office, Seattle, Wash., for the Board of Road Commissioners for Alaska until **noon February 15, 1916,** and then publicly opened. Further information on application.

NOTICE TO CONTRACTORS.

Office of the Board of Education of Alameda, Alameda County, Calif.

Bids will be received by the Board of Education of the City of Alameda, State of California, in the City Hall, Alameda, Calif., until **10 o'clock a. m. Tuesday, March 7, 1916,** for the construction and completion of a **Two-story and basement brick addition to the Washington School,** situated at the southeast corner of Eighth and Santa Clara Avenue in the City of Alameda, State of California, for each of the following departments of work:

Department 1. Excavating, Grading, Brick and Concrete Work.

Department 2. Structural and Miscellaneous Iron Work.

Department 3. Carpenter Work, Mill Work, Glass, Stairs, Hardware, Tiling and Marble Work.

Department 4. Plastering, Lathing, Cementing, Etc.

Department 5. Felt and Gravel Roofing.

Department 6. Painting, Tinting.

Department 7. Plumbing, Drains, Gas Fitting and Sheet Metal Work.

Department 8. Electric Work.

Department 9. Heating and Ventilating.

Plans and specifications for each of the nine (9) separate departments or classes of work are on file in the office of the Board of Education in the Alameda City Hall and copies may be obtained upon the deposit of Ten Dollars ($10.00) which said deposit will be returned upon the return of said plans and specifications. No bidder shall keep said plans and specifications for a period exceeding ten (10) days. If any bidder retains said plans and specifications for a period exceeding ten (10) days then said deposit of Ten Dollars ($10.00) shall be forfeited to the City of Alameda.

Bidders may make their bids on any or all of said departments or classes of work or on any combination of two or more departments. No bid will be considered unless accompanied by a **certified check,** payable to the order of **C. J. DuFour, Secretary of the Board of Education,** certified to by some responsible bank for an amount not less than **10%** of the aggregate amount of the bid or proposal which it accompanies, said check to be forfeited to the City of Alameda as agreed and liquidated damages should the party or parties to whom the contract or contracts should be awarded fail to enter into the contract or contracts within ten (10) days after the award or fail to give a bond or bonds for the faithful performance of a contract or contracts.

Bidders shall make their bids on the blank forms furnished with the plans and specifications. All blanks in the bid forms shall be completely filled in, giving all proposals asked.

All bids must be enclosed in sealed envelopes addressed to the **Board of Education of the City of Alameda,** and be endorsed on the envelope **"Bid for the Construction and Completion of the Addition to Washington School,"** followed by a designation as to the department or departments for which the bid is made.

All bids that do not comply with the above provisions in this notice will be thrown out as informal.

The Board of Education reserves the right to reject any or all bids or proposals.

Dated, February 2, 1916.

(Signed) JAMES SHANLEY,
President of the Board of Education of the City of Alameda.

(Signed) C. J. DuFOUR,
Secretary of the Board of Education of the City of Alameda.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal., January 31, 1916—SEALED PROPOSALS, in triplicate, for repairing wharves at Forts Baker and Barry, Cal., will be received here **until 11 A. M., February 14, 1916** and then opened. Further information can be obtained here. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1007 — Proposals for Grab Buckets, Drawbar Springs, Boiler Tubes, Drill Chucks, Socket Wrenches, Steam Traps, Rattan Baskets, Window Glass, Mattress Ticking, Leather Mattress Tufts, Mattress Twine, Lye, Venetian Red Paint, Vermillion Paint and Spud Timbers.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. February 4, 1916,** at which time they will be opened in public for purchasing the above mentioned articles. Blanks and general information relating to this circular (No. 1007) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR STEEL TOWER.

STEEL TOWER — Sealed proposals will be opened by the light house inspector, Honolulu, T. H., at **2 o'clock p. m., March 4, 1916,** for furnishing one 72-foot galvanized structural steel tower, delivered f. o. b. Honolulu, T. H. Information upon application to above office.

PROPOSALS FOR FIRE ESCAPE.

Notice to Contractors.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including 12 o'clock, noon, Thursday, January 27th, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials and labor; and doing the work required to complete the New Fire Escape for the Manual Arts Building, California School for Deaf and Blind, Berkeley, California, in accordance with the plans and specifications therefor, copies of which may be obtained

NATIONAL GUARD WEAK.

"The argument that would retain the National Guard in its present inefficient state of organization because it owns $200,000,000 worth of property," says an editorial in the February **issue of American Defense,** a magazine published for the American Defense Society, "is the same argument that has been used to keep open a dozen inefficient Navy Yards. We take no stock in it.

"The National Guard as organized at present is useless. Although it has many able officers, and several highly efficient units, the Guard, as a whole, is worthless for war.

"The Guard lacks field training. The sole purpose of training troops is to fit them for battle. Much can be done in armories to train troops for battle. They can be taught some measure of discipline as well as the simplest elements of soldiering, but troops without field training are worthless in the field.

"But lack of field training is a minor short-coming of the Guard. No military unit is worth consideration whose contral is scattered among forty-eight different heads. Until the militia is federalized it cannot be considered a military unit at all.

"We do not underestimate the Guard. We have due respect for men who, whatever else may be said of them, are sacrificing their time to stand directly behind the regular army We appreciate that several Guard regiments have reached a high degree of efficiency.

"General O'Ryan proposes a federalized National Guard. If his plan can be put through in a few months, we favor it, but if a proposal to federalize the Guard means seven years of legal wrangling, we want to wipe the slate clean, deny all federal appropriations to the National Guard and organize a force that will be worth something to the United States."

BLAMES SAN FRANCISCO FOR BUILDING DELAY.

SACRAMENTO, Cal.—John Francis Neylan, chairman of the State Board of Control, in answering on attack upon the administration by a San Francisco newspaper, wherein it is charged editorially that there is no disposition upon the part of state officials here to hasten the work of San Francisco's $1,000,000 state building, declares that San Francisco and the slow bond market are alone responsible for the delay.

Neylan asserts that more than a year ago the Board of Control, at the instance of Governor Johnson, took up with the San Francisco Board of Supervisors and the civic organizations of San Francisco the necessity of raising a bonus in order that the bonds might be sold. Nothing was done.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, E. A. Schkade, 240 20th avenue, S. F. Location, west 18th avenue north of Balboa. Each will contain six rooms, bath and basement garage. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Bath rooms tile. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCES—4, 2 story and base, frame, $2,000 each. San Francisco. Architect, M. Lichtenstein, 111 Ellis street, S. F. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, Mission west of Santa Marina. Each will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE ALTERATIONS — Frame, $2,800. San Francisco. Architect, none. Owner, A. B. Snider, 1351 Kansas street, S. F. Location, west Vermont south of 24th. Will contain living rooms and a gymnasium. Interior finish pine with some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

RESIDENCES — 5, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, Thomas Hamill, 5535 Geary street. Location, east 30th avenue north of Clement. Each will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some gum. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and wory to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, F. Nelson, 20 Presidio Terrace, S. F. Location, north Parnassus west of Hillway. Will contain six rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—2 story, attic and base, frame, $10,000. San Francisco. Architect, Frederick D. Boese, New Call Bldg., S. F. Owner, Mrs. Mina B. Bernhard. Location, north Filbert west of Devisadero. Will contain ten rooms, three baths and sleeping porch. Interior finish pine, hardwood, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile. Exterior covered with brick veneer and cement plaster. Plans being prepared.

WHARF REPAIRS—Timber. Cost not stated. Fort Barry and Fort Baker. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received on February 14th for repairs to the wharves at Fort Barry and Fort Baker. Plans and specifications can be secured from the office of the Constructing Quartermaster at Fort Mason. An official proposal appears in another column of this issue.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco, Cal. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name withheld. Location, Chenery near 30th street. Will contain a number of two and three room apartments Interior finish pine and redwood. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans being prepared.

APARTMENT HOUSE—4 story and base, brick and steel, $20,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Herman Hogrefe, 110 Upper Terrace, S. F. Location, North O'Farrell east of Hyde street, covering an area of 50 by 66 feet. Will contain sixteen apartments of two and three rooms. Interior finish pine and elm panels. Hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Bath rooms tile and composition. Wall beds. Marble and tile vestibule. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $24,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Robert Dewar, Builders' Exchange. Location, north Sacramento west of Pierce, covering an area of 50 by 70 feet. Will contain twelve suites of four rooms and bath. Interior finish pine and hardwood and white enamel. Some hardwood floors. Steam heat and a hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot in vestibule. Exterior covered with cement plaster. Plans complete and work by Day Labor.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco. Architect, Houghton Sawyer, Shreve Bldg., S. F. Owner, Dr. Chester Woolsey. Location, south McAllister east of Devisadero. Will contain a number of two and three room apartments with baths and wall beds. Interior finish pine and hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner, Amala D. Deckelman. Location, 19th avenue. Will contain seven rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior cement plaster. Plans complete and figures being taken.

COURT HOUSE AND JAIL—2 story and base. Class A construction. Prescott, Arizona. Three architects have been selected to prepare competitive plans for the new $250,000 court house to be erected in Prescott, Arizona, by Yavapai County. Norman R. Coulter, San Francisco; De Longchamps of Reno, Nev.; and Bowman of Denver, Colo. Plans will be submitted on February 28th.

FIRE HOUSE—2 story and base. Class C construction, $13,000. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. A complete list of the bids opened for the construction of Engine House No. 4 to be erected on Howard street between Second and Third streets will be found under the heading of San Francisco.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, C. A. Rushton, 751 9th avenue, S. F. Location, west 9th avenue south of Cabrillo. Will contain two flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

HOTEL AND STORES—4 story and base, brick and steel, $25,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, H. Cohn, 1824 Market street. Location, south Geary west of Hyde, covering an area of 45 by 78 feet 10 inches. Will contain stores on the first floor besides the office. Upper floors arranged for single rooms and baths. Interior finish pine. Steam heat, oil burning plant, automatic elevator and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans prepared and ready for figures in two weeks.

THEATRE—1 story and base, reinforced concrete and steel, $68,000. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Mason Street Theatre Co. Location, west Mason between Turk and Eddy, covering an area of 75 by 105 feet. Construction fireproof. Designed for motion pictures. Interior finish pine and ornamental plaster. Steam heat and modern ventilating. Exterior faced with cement plaster. Plans being prepared.

STORES—1 story and base, brick and steel, $10,000. San Francisco. Architect, Louis M. Gardner, Phelan Bldg., S. F. Owners, Lang Investment Co. Will cover an area of 50 by 120 feet. Arranged for two stores. Interior fin-

ish pine and hardwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

STORE ALTERATION—Frame, $5,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owners, Eisenbach Co., Flatiron Bldg. Location, 247 Devisadero street. Work will consist of raising the present two-story flat building and rearranging the first floor for two modern stores. Included in the work will be new plastering, mill work, painting and electric work. Patent store fronts and marble bases will be used. Plans are being prepared and work will be done by Day Labor.

OFFICES—10 or 12 story and base. Class A construction. Cost not stated. San Francisco. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner's name withheld. Location, southeast corner of Montgomery and California streets, covering an area of 87½ by 137½ feet. Only preliminary sketches have been made for this important improvement and details are not available. It is reported that the first floor will be leased to a banking institution. Further mention will be made of the work as plans progress.

STORES AND OFFICES—8 story and base. Class A construction. Cost not stated. San Francisco. Architect, J. R. Miller, Lick Bldg., S. F. Owner, Claus Spreckels. The architect states that the present Claus Spreckels Annex now undergoing extensive alterations, will be razed to the first story and later completely demolished and replaced by a new Class "A" store and office building of at least eight stories. The original contract called for raising the upper floors of the building to the present floor level of the Claus Spreckels Building and rearranging the interior so that the elevator service of the Spreckels Building could be used in the annex. In striping the building four of the columns in the front running from the second to the fourth floors were found to be weak and would have to be renewed. It was also found that the west wall was in such a condition that it would have to be torn down. With this extra expense to be met it was thought cheaper to tear down the building and construct a new building on the site. Leases on the ground floor have from two to three years yet to run and at this time the building will be torn down to the second floor and roofed over. When the leases have expired construction will be started on the new building.

APARTMENT HOUSE—4 story and base, brick and steel, $25,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Herman Hogrefe. Location, north O'Farrell east of Hyde, covering an area of 50 by 66 feet. Will contain sixteen apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Automatic elevator, steam heat, oil burning plant and hot water system. Wall beds. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

Contracts Awarded.

STREET IMPROVEMENT — Cost not stated. San Francisco. Engineer, City Engineer, Temporary City Hall, S. F. Owners, City and County of San Francisco. The following contracts for street work have been awarded by the Board of Public Works: Improvement of 37th avenue from Anza to Balboa, awarded to Owen McHugh, Russ Building. Improvement of Wood between Geary and Laurel Hill Cemetery; awarded to Flinn & Treacy, First National Bank Building. Improvement of Winfield avenue between Cosa and Esmeralda; awarded to F. R. Ritchie, Chronicle Building. Sewer, 47th avenue, Lincoln Way and Irving; awarded to R. Nugent, 2165 Market street. Construction of sidewalks on Harrison between 9th and 10th; awarded to C. C. Christensen. Improvement of Valley street from Sanchez to Noe; awarded to Flinn & Treacy, First National Bank Building.

City Bids Opened.

Many Firms Submit Bids For Various Parts of the Work on Engine House No. 4 and Other Municipal Work.

An unusual large number of figures were received at the Wednesday afternoon session of the San Francisco Board of Public Works and included general construction on Engine House No. 4 plumbing, electric work and lighting fixtures on the same. Bids were also received for re-arranging the power plant at the Relief Home; draperies for the Mayor's office and Council Chambers; special furniture for the Tax Collector and Superior Court Chambers; electrical appurtenances for the Church Street Municipal Road and street improvement on Taraval street from 37th avenue to the Great Highway.

H. S. Tittle was low man for furnishing electrical conduits and appurtenances for the Church street line at approximately $10,800 and J. J. Rauer was low on the Taraval street improvements at $24,800. Following is a complete list of the bids as opened for the other construction mentioned.

At the same meeting Healy-Tibbitts Const. Co. was awarded a contract for dredging Islais Creek Channel at $4,400.

Engine House No. 4 (General Constr.)

J. S. Hannah	$26,666
M. Zelinsky	24,970
W. & R. H. Pearce	28,878
H. A. Klyce	29,658
Elmer Carlson	27,840
H. S. Williams	28,960
Masow & Morrison	27,995
E. C. Gaspard Co.	28,647
M. P. Mortenson	26,880
A. Kohn	28,437
John Spargo	27,900
W. A. Newsom	25,978
Bert T. Owsley	29,360
E. S. Mulford	26,153
J. Wendering	27,300
J. D. Hannah	27,773
Anderson & Ringrose	27,965
R. W. Moller	28,900
P. J. Reilly	28,906
O. Monson	28,937
Ward & Goodwin	29,990
Val Franz & Son	void

Plumbing, Same.

E. W. Snook	$4,244
A. Lettich	4,172
Scott Co.	4,241
Kiernan & O'Brien	3,937
E. P. McKeon	4,876
J. M. Lettich	4,232
J. E. O'Mara	4,450
Turner Co.	4,290

Electric Works, Same.

McFell Elec. Co.	$ 869
F. E. Newberry	1,087
Rex Elec. Co.	742
Central Elec. Co.	850
H. E. Tittle	802
Butte Eng. & Elec. Co.	787
Gas & Elec. Appl. Co.	998

Lighting Fixtures, Same.

Ickelheimer Bros. Co.	$615.00
Thomas Day Co.	616.75
L. J. Meyberg	660.00
Roerts Mfg. Co.	690.00

Re-Arranging Power Plant, Relief Home.

J. B. McSheehy, Prop. 1——; Prop. 2, ——; Prop. 3 ——; Prop. 4, $6,992.

Turner Co., Prop 1, ——; No. 2, $510; No. 3, $595; No. 4, $5,780.

Scott Co., Prop. 1, $5,720; No. 2, $2,560; No. 3, $600; No. 4, $7,880.

George F. Day, Prop. 1 $——; No. 2, $——; No. 3, $650; No. 4, $——.

Simonds Machine Co., Prop. 1, $——; No. 2, $375; No. 3, $——; No. 4, $——.

F. P. Walsh, Prop. 1, $——; No. 2, $——; No. 3, $——; No. 4, $5,593.

Dorwood Eng. Co., Prop. 1, $4,175; No. 2, $——; No. 3, $——; No. 4, $——.

Fairbanks-Morse Co., Prop 1, $——; No. 2, $420; No. 3, $——; No. 4, $——.

C. F. Brown Co., Prop. 1, $——; No. 2, $——; No. 3, $589; No. 4, $——.

Draperies, Mayor's Office, Council Chamber and Reception Room.

D. N. & E Walter Co.	$1,932.74	$2,193.74
W. & J. Sloane	1,330.00	1,525.00

Special Furniture, Tax Collector and Supervisor Courts.

Mullen Mfg. Co.	$ 895	$ 645
L. & E. Emanuel	867	895
W. & J. Sloane	1,046	662
William Bateman	1,220	960
A. J. Forbes & Son	1,564	876
M. Brandlein & Co.		void
J. B. McSheehy	1,059	1,082

OAKLAND AND ALAMEDA COUNTY.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, John Ogden, 2046 Rutherford avenue, Oakland. Location, San Juan west of Rosedale. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, Ole Kolen, 3127 Bruce street, Oakland. Location, northeast 39th street and Lincoln. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor, Syndicate Bldg., Oakland. Location, east Golden Gate avenue south of Acacia. Will contain eight rooms, bath and

sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,500. Berkeley, Alameda Co., Cal. Architect, John Hudson Thomas, First National Bank Bld., Berkeley. Owner, J. B. Wrangham. Location, Baly Park. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and bids in. Contract to be awarded at once.

RESIDENCE — 1 story and base, frame, $2,000. Piedmont, Alameda Co., Cal. Architects, Schirmer & Bugbee, Dalziel Bldg., Oakland. Owner, Mr. Lane. Location, Bowie street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owners, Boyd and Carlos, Hudson and Claremont streets, Oakland. Location, east Claremont avenue, north of Hudson. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, south Francisco west of Short. Will contain five rooms, bath and sleeping porch. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire place and tile mantel. Composition in bath room. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

RESIDECE — 2 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owners, Harris and Hudson, 1957 East 38th street, Oakland. Location, northeast corner of Hopkins and Canon streets. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Composition floor in bath room. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, L. G. Pfrang, 5441 Shafter, avenue, Oakland. Location, west Emerald north of 41st street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room composition. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, C. E. Sinclair, 5323 Locksley avenue, Oakland. Location, north Napa west of Hopkins. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work by Day Labor.

DOLPHINS—Pile. Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County Bids will be received until February 14th for constructing pile dolphines at the Webster street bridge, between Oakland and Alameda. Plans can be secured from the County Clerk.

SEWER CON STRUCTION — Cost as follows. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractor, Michael Heafey, 2320 McKinley avenue, Berkeley. Contract price, vitrified, ironstone pipe sewer, six inches in diameter, per linear foot, 82 cents; eight-inch corrugated pipe, per linear foot, 82 cents; concrete catchbasins, each, extra, $20.

RESIDENCES—9, 1 story and base, frame, $2,000 each. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, Francisco street. Each will contain five rooms and bath. Interiors finished in pine with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, east Lawton near Hudson. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, Harrison Tucker. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCES—2, 1 story and base, frame, $2,000 each. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, east Acton south of Francisco. Each will contain five rooms and bath. Interiors finished in pine and redwood. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors rustic and cement plaster. Plans complete and work by Day Labor.

FACTORY—2 story and base, steel and concrete, $300,000. Oakland, Cal. Engineer, L. S. Rosener, Merchants' Exchange Bldg., S. F. Owners, Moore & Scott Iron Works. Location, east Adeline south of First. Designed for manufacturing purposes. Heavy construction. No interior finish. Exterior faced with brick. Contract for the structural steel awarded to the Pacific Rolling Mill Co. and balance of the work to be done by Day Labor under the direction of the owners.

VACUUM CLEANING FOR INFIRMARY—Cost not stated. Oakland, Cal. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owners, Alameda County. Bids will be opened on March 6th for furnishing and installing the vacuum cleaning equipment in the new County Infirmary. Plans can be secured from the architect.

SCHOOL ADDITION—2 story and base, brick. Cost not stated. Alameda, Alameda Co., Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, City of Alameda. Building will be known as the Washington School. Addition will consist of two wings. Interior finish pine with maple floors in the class rooms. Steam heat, oil burning equipment and vacuum cleaning. Program clocks. Exterior faced with pressed brick. Plans complete and bids being taken. Bids will be opened on March 7th. Plans can be secured from the architect. An official proposal appears in another column of this issue.

MARKET—1 story and base, brick and steel. Cost not stated. Oakland, Cal. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owner, A. Pallidini. Location, Washington street, covering an area of 50 by 75 feet. Will contain a large and modern fish market. Concrete and tile floor. Marble and tile counters. Patent store fronts and marble bases. Interior finish pine and white enamel. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN JOSE AND THE SANTA CLARA VALLEY

ROAD IMPROVEMENT — Cost not stated. Salinas, Monterey Co., Cal. Engineer, County Surveyor Cozzens, Salinas. Owners, Monterey County. County Surveyor Cozzens has completed plans and specifications for the eight-mile strip of road macadam from the Laurellos road to the Monterey city limits. The plans will be presented to the Supervisors at their next meeting, and it is probable that bids will be called for at that time. This improvement will consist of a twelve-foot strip of oiled macadam with a three-foot shoulder of waste on each side, giving a roadway 18 feet wide. Further mention will be made of this work when the plans have received the approval of the Supervisors.

CHURCH—1 story and base, frame, $15,000. Palo Alto, Santa Clara Co., Cal. Architect, Elmer Grey, Wright and Callender Bldg., L. A. Owners, First Church of Christ, Scientist. Will contain large auditorium, reading rooms and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass windows. Exterior covered with cement plaster on metal lath. Plans being prepared.

Contracts Awarded.

SEWER CONSTRUCTION — $20,810.-01. San Bruno, San Mateo Co., Cal. Engineer, City Engineer, San Bruno. Owners, City of San Bruno. Contractor, C. D. Vincent, 193 Montecito avenue, Oakland. Contract price, $20,-810.01. The following bids were submitted: D. O. Church, 68 Post street, S. F., $26,341.71; C. D. Vincent, 193

Montecito avenue, Oakland, $20,810.01; Chambers & Heafy, Bacon Bldg., Oakland, $21,755.32; Daniel L. Bienfield & Co., $24,849; City Street Improvement Co., Wittell Bldg., S. F., $22,285.01; Pietro Depavo, $24,135.30.

STREET PAVEMENT — Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, City Engineer, San Jose. Owners, City of San Jose. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract covers two separate jobs. Contract price not stated.

STREET IMPROVEMENT — Walks and gutters, $2,831.77. San Bruno, San Mateo Co., Cal. Engineer, City Engineer, San Bruno. Owners, City of San Bruno. Contractors, Johnson & Dam, San Bruno. Contract price, $2,831.77.

SCHOOL PLUMBING — $2,441. San Bruno, San Mateo Co., Cal. Architect, none. Owners, San Bruno School District. Contractors, Murray Co., 228 Webster street, Oakland. Contract price, $2,441.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

RESIDENCE — 1 story and base, frame, $3,000. Martinez, Contra Costa Co., Cal. Architect, Leo Ellis, Shreve Bldg., S. F. Owner, Frank J. Barnard, Martinez. Location, Austin Tract. Will contain seven rooms, bath and sleeping porch. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire places and furnace heat. Automatic water heater. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SEWER CONSTRUCTION — Cost not stated. Antioch, Contra Costa Co., Cal. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. Bids will be opened on February 14th for the construction of a 4-inch vitrified, salt-glazed ironstone pipe lateral sewers in 6th and 7th streets from existing main sewers in said streets to the curb lines at the places and in the manner shown and designated on the plans and specifications, and that said lateral sewers be connected with said main sewers with Y branches and that said Y branches be furnished and installed to connect said lateral sewers with said main sewer where the same do not already exist.

SEWER ONSTRUCTION — Cost not stated. Antioch, Contra Costa Co., Cal. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. Bids will be received until February 14th for the construction of a 4-inch vitrified, salt-glazed ironstone laterel sewers in Second street and Fourth street in the town of Antioch from existing main sewers in said streets to the curb lines at the places and in the manner shown and designated on the plans and specifications, and that said lateral sewers be connected with said main sewers with Y branches, and that said Y branches be furnished and installed to connect said lateral sewers with said main sewer where the same do not already exist.

STORM WATER SEWER — $90,000. Richmond, Contra Costa Co., Cal. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. City Engineer Chapman has completed plans and specifications and has presented them to the City Council for a new storm sewer six feet in width to extend from the northern part of the city on 10th street to the Cutting Canal. According to Chapman the sewer will drain 45,000,000 square feet of land in that district and will eliminate all further flooding. Further mention will be made of this work.

CONVENT AND AUDITORIUM—2, 2 story, frame and concrete. Cost not stated. Petaluma, Sonoma Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Sisters of St. Vincent's Academy. Auditorium will be of frame and plaster and the dormitory of reinforced concrete. Plans have not progressed far enough to give further details.

STORES AND OFFICES—2 story and base, brick, $5,000. Martinez, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, C. E. Hayden. Will contain a store on the first floor and small offices on the upper floor. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

STORE ALTERATIONS—$750. Richmond, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, A. Hinkelmann. Location, 7th and Macdonald avenue. Work will consist of tearing out old front and replacing same with patent front. Electric work, plastering, mill work and painting will be included. Plans are being prepared.

Contracts Awarded.

SCHOOL ADDITION—1 story, frame, $2,400. Petaluma, Sonoma Co., Cal. Architect, none. Owners, City of Petaluma. Contractor, N. G. Ingerson, Petaluma. Contract price, $2,400.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

RESIDENCES—2, 2 story and base, frame, $2,500. Fresno, Fresno Co., Cal. Architect, none. Owner, W. H. Ackerman, 3rd and Huntington streets, Fresno. Location, Alta Vista Tract. Each will contain five rooms and bath. Sleeping porch. Interior finish pine and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work by Day Labor.

STREET PAVING—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. The City Engineer is preparing plans for the paving of a number of streets and street crossings in Bakersfield, and will submit sketches for the work at the next meeting of the City Council for approval. Bids on the work will be called for on the approval of the plans. Further mention will be made of this work.

GARAGE—1 story, frame, $5,000. Fresno, Fresno Co., Cal. Architect, none. Owner, W. M. Shooshan, 459 J street, Fresno. Concrete floor. Special wireing and gasoline tank. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

RESIDENCES—3, 1 story and base, frame, $6,500. Stockton, San Joaquin Co., Cal. Architect, Joe Losekann, San Joaquin Bldg., Stockton. Owner, F. J. Campodonico. Location, corner of Willow and Commerce streets. Each will contain five rooms, bath and sleeping porch. Interior finish pine and elm panels. Some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $1,500. Stockton, San Joaquin Co., Cal. Architect, none. Owner, George F. Thackeford. Location, American and Fourth streets. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior rustic. Plans complete and work by Day Labor.

STREET PAVING—Cost not stated. Placerville, El Dorado Co., Cal. Engineer, City Engineer, Placerville. Owners, City of Placerville. Steps are now being taken by the City Trustees for the paving of Main street. It is thought that the street will be paved with mastic pavement instead of asphalt. The improvement will cost about $25,000 and will be taken up at the next meeting. Further mention will be made of this work.

SUBWAY—Concrete. Cost not stated. Lodi, San Joaquin Co., Cal. Engineer, City Engineer L. S. Baizeletti, Lodi. Owners, City of Lodi. L. Bauman, engineer for the Southern Pacific Co. and City Engineer L. S. Baizeletti conferred concerning the proposed subway under the Pine street crossing of the railroad company's tracks. A decision was reached whereby the City Engineer will prepare plans and estimates for consideration of the City Trustees. The railroad will probably bear a part of the expense. Further mention will be made of this work.

STREET PAVING—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Plans have been approved and the City Commission has ordered bids received for the paving of 14th street from Q to Y. The improvement will consist of an asphalt pavement, curbs, gutters and sidewalks. Plans may be had from the City Clerk.

APARTMENT HOUSE—2 story and base, brick, $15,000. Lodi, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, O. A. Schroeder, Lodi. Will contain eight apartments of two rooms and four apartments of three rooms. Interior finish pine and elm panels. Some hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

COURT HOUSE—2 and 3 story and base, reinforced concrete, $250,000. Woodland, Yolo Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Yolo County. Plans for this building have been completed and approved by the County Supervisors. Bids are now being called for on the removal of the old buildings. Within a few weeks figures will be asked for on the first unit of the court house. Further mention will be made of the work.

RAILROAD EXTENSION—Cost not stated. Lodi, San Joaquin Co., Cal. Engineer, Engineering Department

Western Pacific Railroad Co., Mills Bldg., S. F. Owners, Western Pacific Railroad Co. The engineering department of the Western Pacific Railroad is working on plans for their road to tap the Lodi fruit shipment district in competition with the Southern Pacific and Santa Fe. Surveyors have already finished their work. One of the routes suggested is a branch to run direct from Kingdon to Lodi, and then curve back to the main line by way of Woodbridge and Thornton. Further mention will be made of this work.

STORE—1 story, brick, $2,500. Stockton, San Joaquin Co., Cal. Architect, none. Owner, W. J. Hamman, 129 South California between Washington and Lafayette streets. Will contain one store. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work by Day Labor.

Contracts Awarded.

FURNISHING CEMENT. — Cost as follows. Sacramento, Cal. Engineer, State Engineer, Sacramento. Owners, State of California. Contractors, Pacific Portland Cement Co., Pacific Bldg., S. F. Contract price, 18,000 barrels at $1.50 per barrel.

LOS ANGELES AND SOUTHERN CALIFORNIA

IRRIGATION PIPE—Cost as follows. San Fernando, Los Angeles Co., Cal. Engineer's name not given. Owners, San Fernando Valley Irrigation District. Four bids for furnishing 3,000 feet of 54-inch pipe for the San Fernando Valley Irrigation District were received. They are as follows: Llewellyn Iron Works, Main and Redondo streets, L. A., $7.37 a foot, deliveries to begin May 1st; Baker Iron Works, $6.-62 a foot and 2c a pound for bends; Western Pipe and Steel Co., 444 Market street, S. F., $6.76 a foot and ½c a pound for bends; Lacey Mfg. Co., Flood Bldg., S. F. and L. A., $7.11 a foot and 1c a pound for bends. The bids were referred to Chief Engineer Mulholland, of the district and the county counsel for report. The contract will be awarded shortly.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architects, Frohman & Martin, Slavin Bldg., L. A. Owner's name withheld. Will contain eleven rooms, rooms, three baths and a separate garage. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Central heating system, hot water supply and open fire places. Mantels tile and brick. Exterior cement plaster. Plans being prepared.

RESIDENCE — 3 story and base, frame. Cost not stated. Los Angeles, Cal. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owner, H. C. Oakley. Location, Brentwood Park. Will contain twelve rooms and several baths. Interior finish hardwood and white enamel. Hardwood and tile floors. Furnace heat, hot water circulating system and vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $15,000. Los Angeles, Cal. Architect, E. J. Borgmeyer, Stimson Bldg., L. A. Owner, Mathew Fecher. Location, Normandie avenue. Will contain twelve rooms and three baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water system and vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Harold B. Dunn, Van Nuys Bldg., L. A. Owner, G. L. Crenshaw. Location, Lafayette Square. Will contain seventeen rooms and four baths. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and hot water system. Bath rooms tile. Hardwood floors. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

WAREHOUSE—5 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architects, Dodd & Richards, Brockman Bldg., L. A. Owners, H. R. Boynton Co. Location, Bay near Santa Fe avenue, covering an area of 74 by 140 feet. Reinforced concrete floors and walls. Metal window sash and frames. Metal covered doors. No interior finish. Elevator service. Automatic sprinklers. Exterior faced with cement plaster. Plans being prepared.

GARAGE—1 story and base, brick. Cost not stated. Pasadena, Los Angeles Co., Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owners, Willys-Overland Co. Location, southeast Colorado and El Molino. Will cover a considerable ground area. Construction fireproof. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with pressed brick. Plans complete and figures to be taken at once.

HOTEL—4 story and base, brick and steel, $50,000. Los Angeles, Cal. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owner's name not given. Location, north Broadway near Tunnel. Will contain a total of 76 rooms and a number of baths. Interior finish pine and hardwood with some ornamental plaster. Steam heat, elevator service and hot water system. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

CLINIC—1 and 2 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect, Arthur B. Benton, 114 North Spring street, L. A. Owner, O. T. Johnson. Location, Castelar street, covering an area of 50 by 120 feet. Arranged for offices, wards and operating and dispensing rooms. Interior finish pine and hardwood and white enamel. Hardwood and tile floors. Steam heat and special hospital plumbing and fixtures. Exterior faced with cement plaster. Plans complete and figures being taken.

HOSPITAL—1 and 2 story and base, reinforced concrete. Cost not stated. San Bernardino, San Bernardino Co., Cal. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. The date for receiving bids for the erection of the new hospital building at the County Hospital site near San Bernardino has been postponed by the Board of Supervisors to 11 a. m. of Monday, February 14th, 1916. The date had previously been set for Monday, January 31st, 1916.

HIGHWAY CONSTRUCTION — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors of Ventura County up to 11 a. m. of February 14, 1916, for improving two miles of the Ventura-Nordhoff road. The work will include 50,700 cubic yards of excavation, including borrow, 10 yards of Class B concrete in culverts, 648 linear feet of 18-inch to 36-inch corrugated iron pipe, 3,000 pounds of steel, etc.

SCHOOL—1 story and base, brick, $15,000. Los Aneles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owners, City of Los Angeles. Location, 7th street near Mateo. Will contain two class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and modern school plumbing. Exterior faced with pressed brick. Plans being prepared.

STORE AND OFFICES—2 story and base, brick, $40,000. Camerillo, Ventura Co., Cal. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, The Camarillo Mercantile Co. Will contain stores, restaurant, a public hall and offices. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

CHURCH—1 story, hollow tile, $24,-000. San Bernardino, San Bernardino Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, First Congregational Church. Contractor George A. Daniels, 916 Herkimer street, Pasadena. Contract price, $24,000.

SEATTLE AND WASHINGTON

BRIDGES—Steel and concrete. Cost as follows. Seattle, Wash. Engineer, County Surveyor, Seattle. Owners, King County. Bids are now being taken by the King County Commissioners for the construction of the Fall City and Stossel bridges. Bids on the work close February 21st. The Stossel bridge will be 209 feet long, costing $17,500, and the Fall City bridge about 180 feet long, costing $35,000. Plans for this work may be had from the County Clerk at Seattle.

APARTMENT HOUSE—5 story and base, reinforced concrete, $60,000. Seattle, Wash. Architect, Aaron H. Milner, Haight Bldg., Seattle. Owners, Club and Apartment Building Co. Location, Norman and 31st streets. Will contain nine apartments of two rooms, fifteen of three rooms and seven of four rooms. First floor club rooms. Basement will contain large swimming tank. Interior finish pine and hardwood. Steam heat, oil burning system and elevator service. Hot water system. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

FACTORY—2 and 3 story and base, reinforced concrete, $300,000. Seattle, Wash. Architect's name not given. Owners, represented by A. J. Capron Preliminary plans have been completed by one of the largest paint and varnish manufacturing companies in the country for a concrete factory plant that will be erected on a plot of land in Duwamish Valley. A. J. Capron, Ainsworth Bldg., Portland, is representing the owners. Capron has the tentative sketches for the proposed buildings to be erected, and which are as follows, reinforced concrete con-

struction, 60 by 200, 3 story; 40 by 60, 2 story; 40 by 40, 3 story; 60 by 200, 3 story.

Contracts Awarded.

BRIDGE SUPERSTRUCTURE—$15,692. Aberdeen, Wash. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners, City of Aberdeen. Contractor A. R. Eichler, Aberdeen. Contract price, $15,692.

HOTEL AND STORES—4 story and base, brick and steel, $45,000. Seattle, Wash. Architects, Thompson & Thompson, Mutual Bank Bdg. Seattle. Owners, Chinese Masonic Association. Contractor, Hans Pederson, Alaska Bldg., Seattle. Contract price, $45,000.

HOTEL AND OFFICES—9 story and base. Class A construction, $232,000. Seattle, Wash. Architect, A. Warren Gould, American Bank Bldg., Seattle. Owner, James Moses, New York Bldg, leased to the Arctic Club. Contractor, Hans Pederson, Alaska Bldg., Seattle. Contract price, $232,000.

DAIRIES SHOULD PASTEURIZE MILK.

Wisdom In New Law to Go in Effect.

"Pasteurize milk and prevent typhoid."

This is declared the lesson of a recent outbreak of typhoid fever at Richmond now proved to have been caused by typhoid bacilli in milk. Milk from the same dairy, drunk in Berkeley by a dozen times as many people, caused not a single case of typhoid because it had been pasteurized, by heating it to 145 degrees for thirty minutes.

The story of this triumphant proof that raw milk ought to be pasteurized before it is sold, save when thorough medical examination of the dairy employes can be required at frequent intervals, is told in a paper just published y Dr. J. C. Geiger, Assistant Director, and Dr. F. S. Kelly, Bacteriologist of the Bureau of Communicable Diseases maintained at the University of California by the California State Board of Health.

When typhoid was reported at Richmond, Dr. Geiger and Dr. Kelly discovered that all twelve patients had used milk from a dairy near Richmond. They found that just before the Richmond outbreak a milker had been sent from this dairy to a Berkeley hospital suffering from typhoid. Undoubtedly he was the source of infection in this milk, for the epidemic at once ceased.

But if Richmond had twelve cases, the scientists asked, why did not Berkeley, where more than six thousand people drank this same milk, show a similar outbreak? On investigation they found that pasteurization had saved the day. The dairy sub-station at Richmond had been distributing the milk without pasteurizing it, while this same milk when sent to Berkeley for distribution was there carefully pasteurized by heating. Thus while the taste of the milk was not changed, any possible danger was prevented that disease might be spread in case a milker were suffering from typhoid, diphtheria, sore throat, colds, intestinal trouble, or any other of a large number of diseases which can be carried in unpasteurized milk. Such germs are destroyed by pasteurization.

Next fall a state law is to go into effect which will require all milk sold in California to be pasteurized unless it comes from a certified dairy. This milk-borne epidemic in which cases of typhoid were caused in one town and not a single case in a community close by, which used a dozen times as much of the same milk, is pointed to by the scientists as convincing proof of the great wisdom of the new law requiring pasteurization of milk and the immense value it promises to the community in preventing the spread of typhoid, tuberculosis, intestinal troubles, and a host of other preventable ailments of mankind.

GLASS AND GLASSWARE AT HONGKONG.

[Consul General George E. Anderson, Hongkong, British China, Nov. 26.]

Developments in the Hongkong glass and glassware market since the opening of the war have been altogether in favor of Japan and the United States—Japan, as in nearly all lines of trade in which continental Europe was chiefly interested before the war, having much the advantage in most respects. In glassware the United States had perhaps 20 per cent of the business before the war, having practically no competition in certain varieties of lamps and similar goods; the rest of the trade went to Germany, Belgium, and Japan.

At present the United States has practically no competition in lamps and glass dishes of fancy shapes and colors such as fruit dishes, flower holders, butter dishes, and the like. It also has much of the business in lanterns, which represent a considerable item in the trade, but the situation in the market generally may be illustrated by the fact that before the war the American-made lanterns that were selling at $12.50 local currency per dozen were of about the same grade as European lanterns selling for two-thirds that price. While American lanterns now have the market their sale is comparatively restricted because of their high cost delivered here.

Local Products Gaining Ground—Window Glass.

For the cheaper grades of glassware, such as lamp chimneys, bottles, and small plain dishes, the local importers are depending more upon the small local glass factories, which have commenced to extend their business considerably as a result of the prevailing high prices for glass of all sorts. The larger dealers, too, are buying up all stocks of the smaller dealers and are in every way endeavoring to avoid replacing their stocks under what they feel are ruinous conditions. Japanese lamp chimneys and similar goods control the market in their respective grades and varieties.

The demand for American window and plate glass is growing, though local importers complain of high prices. [The window glass situation at Hongkong was discussed in Commerce Reports for April 8, June 12, and July 29, 1915; the Hankow market was reviewed in the issue for Mar. 1, last, and Changsha's trade in the Sept. 8 (1915) number.] Japanese window glass is largely in demand for the cheapest work, but is of poor quality, much too green in color, and has come in such poor shape as to cause material loss. American glass, however, is high in price, and freight rates from the United States to Hongkong at the present time are such as greatly to add to the cost, especially as compared with freights from Japan in Japanese subsidized vessels. The price of window glass has been rising in Japan recently and there are other indications that, so far as higher prices will permit, American window glass will be more in favor than it has been.—Commerce Reports.

BUSINESS MEN WILL WELCOME A TARIFF COMMISSION.

WASHINGTON, D. C.—Concerning the announcement contained in President Wilson's letter to Claude Kitchin, majority leader of the House of Representatives, John H. Fahey, president of the Chamber of Commerce of the United States, said recently:

"The statement of the President's position concerning the need of establishing an absolutely independent nonpartisan tariff commission will be received with great satisfaction by the business men of the United States. The sentiment of business men in favor of such a commission has been almost unanimous for years, because of the general disturbance of business which has usually attended the making of our tariffs under the system which has prevailed until now.

"At its first annual meeting the National Chamber went on record for the establishment of such a commission without a dissenting vote and to insure the fullest possible consideration of the project by all the organizations in its membership this was followed soon after by a referendum to all the members. The result of this was a vote of 715 to 9 in support of the commission idea. At each succeeding annual meeting the proposal of a commission has been endorsed and on each occasion without a single dissenting vote.

"The National Chamber has meanwhile persistently agitated for this reform and within the last year continued its efforts with renewed energy. In recent months the commission plan has also been endorsed by the more prominent agricultural organizations and by the American Federation of Labor and the Tariff Commission League has likewise lent its aid in advocating action. This general consensus of opinion representing all of the great economic interests of the country surely warrants the action on the part of Congress which the President has now so emphatically recommended in his letters to Congressman Kitchin.

"The sooner Congress can pass a carefully drawn measure along the lines of the President's suggestions the better the business men of the country will like it. What the commercial interests and all other interests in the country most want to aid them in the promotion of national progress is stability of conditions. While they do not regard a tariff commission as a cure-all by any manner of means, they certainly consider it as a piece of machinery much needed and one that will be a powerful influence for good in our future development. It is to be hoped that the commission will be given adequate powers, that its permanency will be assured and that the necessary industrial facts which it can bring out will be put before the country and Congress so plainly that they will be understood by all classes of citizens."

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
318	Black	Merriman	2000
319	Murray	Ehrhart	2000
320	Same	Same	2000
321	Same	Same	2000
322	Same	Same	2000
323	Same	Same	2000
324	Anderson	Anderson	2400
325	Same	Same	2400
326	Same	Same	2400
327	Owl Drug	Brumfield	800
328	Buck	Buch	500
329	Galtie	Collin	7000
330	Palmiery	Smith	1400
331	Bell	Bell	1900
332	Farrell	Farrell	500
333	Snider	Snider	2800
334	S F Dairy	Chiappe	2150
335	Windrow	Johnson	5028
336	Ellis	Vulcan	43940
337	Stand Oil	U S Steel Prod	12500
338	Same	Farrell	13200
339	Same	Jorgensen	13035
340	Same	Brady	15241
341	Stand Oil	Rudgear	7920
342	Same	MacGruer	7493
343	Same	Hinson	2855
344	Ferreiros	Ferreiros	1800
345	Coburn	Coburn	1600
346	Schkade	Schkade	2950
347	Same	Same	2950
348	Ford	Ford	1433
349	Heyman	Heyman	1900
350	Heyman	Heyman	1900
351	Heyman	Heyman	1900
352	Heyman	Heyman	1900
353	Dewar	Dewar	24000
354	Bourne	Lasure	5200
355	Cowell	McIntosh	24740
356	Lapeyri	Ponsero	1900
357	Sommers	Levi	600
358	Frick Invst	Malott	450
359	Ede	Gilchrist	400
360	Katz	Katz	500
361	Butten	Field	400
362	Raphael	Sturges	550
363	Canota	Canota	450
364	Kennedy	McGrouther	400
365	Hamill	Hamill	3000
366	Same	Same	3000
367	Same	Same	3000
368	Same	Same	3000
369	Same	Same	3000
370	Stern	Grant	1000
371	Kleiser	Kleiser	600
372	Armbrust	McCarthy	800
373	Urushibata	Shantani	400
374	Nelson	Nelson	2500
374	Siebert	Andresen	2176
376	Hogrefe	Hogrefe	20000
377	Bank of Fugazi	Fillipis	1425
378	Fitzpatrick	Hofmeister	3000
379	Mackson	Mackson	600
380	Elec Rwy	Brumfield	400
381	Moore	Peterson	3000
382	May	Hammerton	6000
383	Brook	Bletel	450
384	Hovde	Paiso	1500
385	Kleiser	Kleiser	600
386	Dressler	Dressler	500
387	Phillips	Bessett	550
388	Henter	McElhinney	1500
389	Buck	Hansen	700
390	Gould	Prout	2000
391	Bjorkman	Bjorkman	1950
391	2nd Ch Scient	Central Irn	8868
392	Same	Stanquist	7676
393	Pacific G & E	Mangrum	1569

(Correction in Owner's Name)

ALTERATIONS AND ADDITIONS

(318) W NINETEENTH AVE 225 N Fulton N 25x W 120. Alterations and additions to frame cottage.
Owner.....Howard T. Black, 777 19th avenue, S. F.
Architect....None.
Contractor..Merriman & Capel, 531 16th avenue, S. F.
Filed Jan. 29, '16. Dated Jan. 27, '16.
Frame up $400
Plaster on 400
Notice of completion filed..... 400
Usual 35 days 800
TOTAL COST, $2000
Bond, Sureties, none. Forfeit, $1. Limit, 90 days. Plans and specifications filed.

FRAME DWELLING

(319) E TWENTY-THIRD AVE 175 S Vincente. One-story and basement frame dwelling.
Owner.....John J. Murray, 1384 Masonic Ave., San Francisco.
Architect ...None.
Contractor..Ehrhart Constr. Co., 801 Hearst Bldg., S. F.
COST, $2000

FRAME DWELLING

(320) E TWENTY-THIRD AVE 205 S Vincente. One-story and basement frame dwelling.
Owner.....John J. Murray, 1384 Masonic Ave., San Francisco.
Architect ...None.
Contractor..Ehrhart Constr. Co., 801 Hearst Bldg., S. F.
COST, $2000

FRAME DWELLING

(321) E TWENTY-THIRD AVE 235 S Vincente. One-story and basement frame dwelling.
Owner.....John J. Murray, 1384 Masonic Ave., San Francisco.
Architect ...None.
Contractor..Ehrhart Constr. Co., 801 Hearst Bldg., S. F.
COST, $2000

FRAME DWELLING

(322) E TWENTY-THIRD AVE 265 S Vincente. One-story and basement frame dwelling.
Owner.....John J. Murray, 1384 Masonic Ave., San Francisco.
Architect ...None.
Contractor..Ehrhart Constr. Co., 801 Hearst Bldg., S. F.
COST, $2000

FRAME DWELLING

(323) E TWENTY-THIRD AVE 295 S Vincente. One-story and basement frame dwelling.
Owner.....John J. Murray, 1384 Masonic Ave., San Francisco.
Architect ...None.
Contractor..Ehrhart Constr. Co., 801 Hearst Bldg., S. F.
COST, $2000

FRAME DWELLING

(324) W SEVENTEENTH AVE 25 S Geary. Two-story and basement frame dwelling.
Owner.....J. Anderson, 423 16th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2400

FRAME DWELLING

(325) W SEVENTEENTH AVE 50 S Geary. Two-story and basement frame dwelling.
Owner.....J. Anderson, 423 16th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2400

FRAME DWELLING

(326) W SEVENTEENTH AVE 75 S Geary. Two-story and basement frame dwelling.
Owner.....J. Anderson, 423 16th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2400

ELECTRIC SIGN

(327) SE MISSION AND SIXTEENTH. Electric sign.
Owner.....The Owl Drug Co., 611 Mission, San Francisco.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $800

ALTERATIONS

(328) NOS. 1369-71-73 WALLER. Alter flats.
Owner.....W. A. Buck, 2673 McAllister, San Francisco.
Architect ...None.
Day's work. COST, $500

BRICK BUILDING

(329) E EIGHTH 185 S Folsom E 120x S 60. All work for two-story brick building (dyeing and cleaning wks.)
Owner.....L. Galtie, Lincoln Way nr 5th Ave., San Francisco.
Architect ...None
Contractor..Jean Collin, 1535 Hyde, San Francisco.
Filed Jan. 31, '16. Dated Jan. 26, '16.
On progress of work each month 75%
Usual 35 days..... 25%
TOTAL COST, $7000
Bond, none. Limit, 90 days after Feb. 1, 1916. Forfeit, none. Plans and specifications filed.

FRAME COTTAGE

(330) ON VIENNA 200 NE from Avalon All work for four-room and basement frame cottage.
Owner.....Joseph Palmiery, 132 Vienna, San Francisco.
Architect ...None.
Contractor..Charles Smith.
Filed Jan. 31, '16. Dated Nov. —.
Frame up $350
Brown coated 350
Finished 350
Usual 35 days..... 350
TOTAL COST, $1400
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING

(331) W FORTIETH AVE 275 S Lincoln Way. One-story and basement frame dwelling.
Owner.....Thos. F. Bell, 781 Stevenson, San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME DWELLING

(332) E FORTY-FIFTH AVE 150 S Kirkham. One-story and basement frame dwelling.
Owner.....J. H. Farrell, 1384 47th Ave San Francisco.
Architect ...None.
Day's work. COST, $500

ADDITION
(333) W VERMONT 120 S 24th. Addition of rooms to rear of church for gymnasium and living rooms for minister.
Owner.....A. B. Snider, 1351 Kansas, San Francisco.
Architect ...None.
Day's work. COST, $2800

CLASS "C" MILK DEPOT
(334) S TURK 181-3 W Steiner. Excavation, concrete and cement work, steel reinforcement, bitumen pavement, etc., for one-story Class "C" milk depot.
Owner.....San Francisco Dairy Co., by A. M. Wallen, 251 Kearny, San Francisco.
Architect ...O'Brien Bros., 240 Montgomery, San Francisco.
Contractor..C. Chiappa.
Filed Feb. 1, '16. Dated Jan. 28, '16.
Concrete foundations and basement walls ready for brick work.....$400
Cold storage room ceiled, brick work 10 feet high..... 300
Brick work done and plumbing roughed in 200
Building roofed, cement floors done and rough concrete done..... 250
Completed and accepted..... 500
Usual 35 days..... 500
TOTAL COST, $2750
Bond, $1750. Surety, Franco Indelicato. Limit, forfeit, plans and specifications, none.

FRAME FLATS
(335) W ELEVENTH AVE 275 N Fulton N 25xW 120. All work except electric light fixtures, window shades wall beds and finish hardware for two-story and basement frame flats.
Owner.....Bert Windrow, 532 Valencia, San Francisco.
Architect ...Rhodes & Marisch, 3372 16th, San Francisco.
Contractor..J. Johnson, 150 7th Ave., San Francisco.
Filed Feb. 1, '16. Dated Feb. 1, '16.
Ready for roof.....$1257
Rough coat plaster on..... 1257
Completed and accepted..... 1257
Usual 35 days..... 1257
TOTAL COST, $5028
Bond, $2514. Surety, Guardian Casualty & Guaranty Co. Limit, 70 days. Forfeit, none. Plans and specifications filed.

CLASS A THEATRE
(336) NE ELLIS AND MASON E 87-6 xN 187-6. Structural steel and cast iron and erection of same for Class "A" theatre building.
Owner.....Ellis Street Invst. Co., Inc 316 Bush, San Francisco.
Architect ...Matthew O'Brien, 68 Post, San Francisco.
Contractor..Vulcan Iron Works, Francisco & Kearny, S. F.
Filed Feb. 1, '16. Dated Jan. 31, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $13,940
Bond, $21,970. Surety, Aetna Accident & Liability Co. Limit, 100 days. Forfeit, $45. Plans and specifications filed.

ADDITION
(337) NW SANSOME AND BUSH N 137-6xW 67-6. Metal window frames and sash for two-story addition to Class "A" office building.
Owner.....Standard Oil Co., Prem.
Architect ...Benj. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..United States Metal Products, Rialto Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 21, '16.
Bet. 1st and 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $12,500
Bond, $6250. Surety, New England Equitable Insurance Co. Limit, as required. Forfeit, none. Plans and specifications filed.

(338) MASONERY WORK ON ABOVE
Contractor..Farrell & Reed, M. A. Gunst Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 24, '16.
Payments same as above.....
TOTAL COST, $13,200
Bond, $6600. Surety, Aetna Accident & Liability Co. Limit, as directed. Forfeit, none. Plans and specifications filed.

(339) METAL DOORS, JAMBS AND interior trim on above.
Contractor..C. Jorgensen & Co., 356 Market, San Francisco.
Filed Feb. 1, '16. Dated Jan. 29, '16.
Payments same as above.....
TOTAL COST, $13,035
Bond, $6518. Surety, Maryland Casualty Co. Limit, 30 days after notification. Forfeit, $25. Plans and specifications filed.

(340) CONCRETE AND CEMENT work on above.
Contractor..A. P. Brady, Humboldt Bank Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 25, '16.
Payments same as above.....
TOTAL COST, $15,231
Bond, $7616. Surety, Aetna Accident & Liability Co. Limit, 21 days after notified. Forfeit, $25. Plans and specifications filed.

ORNAMENTAL IRON WORK
(341) NW SANSOME AND BUSH N 137-6xW 67-6. Ornamental iron work for two-story addition to Class "A" office building.
Owner.....Standard Oil Co., Prem.
Architect ...Benj. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..Rudgear-Merle Co., Bay & Stockton, San Francisco.
Filed Feb. 1, '16. Dated Jan. 28, '16.
Bet. 1st and 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $7920
Bond, $3960. Surety, Fidelity & Deposit Co. of Maryland. Limit, as directed. Forfeit, none. Plans and specifications filed.

(342) METAL FURRING, LATH AND plaster on above.
Contractor..Geo. S. MacGruer, 258 Connecticut, S. F.
Filed Feb. 1, '16. Dated Jan. 27, '16.
Payments same as above.....
TOTAL COST, $7493
Bond, $3747. Surety, Maryland Casualty Co. Limit, 20 days after notified. Forfeit, $25. Plans and specifications filed.

(343) CARPENTER WORK ON ABOVE
Contractor..L. A. Hinson, 180 Jessie, San Francisco.
Filed Feb. 1, '16. Dated Jan. 29, '16.
Payments same as above.....
TOTAL COST, $2855
Bond, $1428. Surety, Aetna Accident & Liability Co. Limit, as directed. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(344) N SILVER 100-2 E Craut. One-story and basement frame dwelling.
Owner.....L. Ferreiros, 3289 Mission, San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(345) W PARK HILL 590 S Buena Vista. One-story and basement frame dwelling.
Owner.....Jas. E. Coburn, 149 Fair Oaks, San Francisco.
Architect ...None.
Day's work. COST, $1600

FRAME RESIDENCE
(346) W EIGHTEENTH AVE 150 N Balboa. Two-story and basement frame residence.
Owner.....E. A. Schkade, 240 20th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2950

FRAME RESIDENCE
(347) W EIGHTEENTH AVE 125 N Balboa. Two-story and basement frame residence.
Owner.....E. A. Schkade, 240 20th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2950

FIRE ESCAPE
(348) NO. 2025 PINE. Install spiral fire escape.
Owner.....Ellen Stark Ford Home, Premises.
Architect ...None.
Day's work. COST, $1433

FRAME DWELLING
(349) SE MISSION 362-6 SW Santa Marina. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...M. Lichtenstein, 111 Ellis, San Francisco.
Day's work. COST, $1900

FRAME DWELLING
(350) SE MISSION 300 SW Santa Marina. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...M. Lichtenstein, 111 Ellis, San Francisco.
Day's work. COST, $1900

FRAME DWELLING
(351) SE MISSION 393-9 SW Santa Marina. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...M. Lichtenstein, 111 Ellis, San Francisco.
Day's work. COST, $1900

FRAME DWELLING
(352) SE MISSION 331-3 SW Santa Marina. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...M. Lichtenstein, 111 Ellis, San Francisco.
Day's work. COST, $1900

FRAME APARTMENTS
(353) N SACRAMENTO 87-6 W Pierce. Three-story and basement frame (12) apartments,

NOwner.....Robert Dewar, 180 Jessie, San Francisco.
Architect...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Robert Dewar & Son, 180 Jessie, San Francisco.
COST, $24,000

FRAME FLATS
(334) N EIGHTEENTH 174-9 E Guerrero N 100 E 20-0½ S 101 m or l W 28. All work except lumber, mill work and cabinet work for three-story and basement frame flats.
Owner.....Robt. J. and Margaret Bourne, 3168 18th, S. F.
Architect...None.
Contractor..John Lasure.
Filed Feb. 2, '16. Dated Jan. 14, '16.
Roof on $1300
Ready for plaster..... 1300
Brown coated 1300
Usual 35 days..... 1300
TOTAL COST, $5200
Bond, none. Limit, 90 days after Feb. 24, 1916. Forfeit, $5. Plans and specifications filed.

FRAME APARTMENTS
(355) W LARKIN 32-6 N Green N 78 W 103 S 19-10 E 33 S 58-2 E 70. All work for three-story and basement frame apartment building.
Owner.....Isabella M. and Helen E. Cowell, 2 Market, S. F.
Architect...W. C. Mahoney, 415 Hearst Bldg., San Francisco.
Contractor..Wm. McIntosh, 289 Cumberland, San Francisco.
Filed Feb. 2, '16. Dated Feb. 2, '16.
2nd story joists set.....$4638.75
Brown coated 4638.75
Standing finish on and sash glazed and hung..... 4638.75
Completed 4638.75
Usual 35 days..... 6185.00
TOTAL COST, $24,740.00
Bond, $12,370. Surety, Massachusetts Bonding & Insurance Co. Limit, 110 days after Feb. 7, 1916. Forfeit, $10. Bonus, $10. Plans and specifications filed.

ALTERATIONS
(356) NO. 1477 FIFTEENTH, bet. Howard and Shotwell. Alterations and addition to building and construction of washroom and boiler room in rear.
Owner.....Martin Lapeyri.
Architect...Albert L. Lapachet, 110 Sutter, San Francisco.
Contractor...Jean Ponsero.
Filed Feb. 2, '16. Dated Feb. 1, '16.
Progressive payments of.... 75%%
Usual 35 days..... 25%
TOTAL COST, $1900
Bond, none. Limit, 30 days. Forfeit, $2.50. Plans and specifications filed.

ALTERATIONS
(357) NO. 51 ELLIS. Alter front.
Owner.....Sommer & Kaufmann, 838 Market, San Francisco.
Architect.. None.
Contractor..T. S. Levi Fixture Shop, 416 6th, San Francisco.
COST, $600

ALTERATIONS
(358) NE HAIGHT AND GOUGH. Alterations.
Owner.....Frick Investment Co.
Architect...None.
Contractor. Malott & Peterson, 682 Monadnock Bldg., S. F.
COST, $450

ALTERATIONS
(359) NO. 1519 POLK. Alter candy store.
Owner.....Wm. Ede Co., 702 Kohl Bldg., San Francisco.
Architect...None.
Contractor..Jas. Gilchrist, 248 Stevenson, San Francisco.
COST, $400

ALTERATIONS
(360) NO. 2983 MISSION. Alterations.
Owner.....Chas. Katz, 1200 Dolores, San Francisco.
Architect...None.
Day's work. COST, $500

FRAME GARAGE
(261) NO. 1476 TWENTY-FOURTH Ave. (rear). One-story frame garage
Owner.....Harold W. Butten, Prem.
Architect...None.
Contractor..A. O. Field, 1465 20th Ave., San Francisco.
COST, $400

ALTERATIONS
(362) NO. 33 FIFTH AVE. Alter for room.
Owner.....Sam Raphael, Premises.
Architect...None.
Contractor..Benj. Sturges, 3931 Geary, San Francisco.
COST, $550

FRAME SHED
(363) NO. 106 SAGAMORE. One-story frame shed.
Owner.....Nicolas Canota, Premises.
Architect...None.
Day's work. COST, $450

ALTERATIONS
(364) NO. 3520 TWENTIETH. Alter saloon.
Owner.....T. J. Kennedy, 29th and Mission, San Francisco.
Architect...None.
Contractor..Mr. McGrouther, 411 Shotwell, San Francisco.
COST, $400

FRAME DWELLING
(365) E THIRTIETH AVE 50 N Clement. Two-story and basement frame dwelling.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect...None.
Day's work. COST, $3000

FRAME DWELLING
(366) E THIRTIETH AVE 75 N Clement. Two-story and basement frame dwelling.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect...None.
Day's work. COST, $3000

FRAME DWELLING
(367) E THIRTIETH AVE 100 N Clement. Two-story and basement frame dwelling.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect...None.
Day's work. COST, $3000

FRAME DWELLING
(368) E THIRTIETH AVE 125 N Clement. Two-story and basement frame dwelling.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect...None.
Day's work. COST, $3000

FRAME DWELLING
(369) E THIRTIETH AVE 25 N Clement. Two-story and basement frame dwelling.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect...None.
Day's work. COST, $3000

ALTERATIONS
(370) SW CHESTNUT AND SCOTT. Alter store into flat.
Owner.....E. Stern, 3261 Scott, S. F.
Architect...None.
Contractor..W. E. Grant, 1032 Irving, San Francisco.
COST, $1000

ROOF SIGN
(371) NE FILLMORE AND GEARY. Roof sign.
Owner.....Foster & Kleiser of California, 273 Valencia, S. F.
Architect...None.
Day's work. COST, $600

ALTERATIONS
(372) S TWENTY-FOURTH 75-9½ E Noe. Alter for fruit market.
Owner.....A. C. Armbrust, 1118 Noe, San Francisco.
Architect...None.
Contractor..John E. McCarthy, 1340 13th Ave., San Francisco.
COST, $800

ALTERATIONS
(373) NO. 1648 POST. Alterations.
Owner.....K. Urushibata, Premises.
Architect...None.
Contractor..Mr. Shantani, 108 St. Anne, San Francisco.
COST, $100

FRAME DWELLING
(374) N PARNASSUS AVE 62½ W Hillway. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect...None.
Day's work. COST, $2500

FRAME COTTAGE
(375) W DE HARO 225 N 23rd W 100 xN 25. All work except shades and light fixtures for frame cottage.
Owner.....Wm. F. and Louisa Siebert, 1143 Rhode Island, S. F.
Architect...E. A. Neumarkel, 55 Montgomery, San Francisco.
Contractor..H. C. Andresen, 1229 Pearl, Alameda.
Filed Feb. 3 ,'16. Dated Feb. 2, '16.
Enclosed and roof on.....$541
Brown coated & sewer connected 541
Completed and accepted..... 541
Usual 35 days..... 541
TOTAL COST, $2156
Bond, $1100. Sureties, V. F. Tedsen and H. A. Willers. Limit, 65 days. Forfeit, none. Plans and specifications filed.

BRICK APARTMENTS
(376) N O'FARRELL 150 E Hyde. Four-story and basement brick (16) apartments.
Owner.....Herman Hogrefe, 110 Upper Terrace, San Francisco.
Architect...Edw. E. Young, 251 Kearny San Francisco.
Day's work. COST, $20,000

ALTERATIONS
(377) NOS. 1 TO 10 COLUMBUS AVE. Alter offices.
Owner.....Bank of Fugazi, Premises.

Architect...I. Zanolini, 604 Columbus Ave., San Francisco.
Contractor..O. Fillipis, 21 Columbus Ave., San Francisco.
COST, $1425

ALTERATIONS
(378) W GUERRERO 65 N 17th. Alter three flats of 6 rooms and bath each into 6 apartments and make other alterations and changes.
Owner.....James and Lillian Fitzpatrick, 486 Guerrero, S. F.
Architect ...None.
Contractor..Hofmeister & Berdahl, 629 Cole, San Francisco.
COST, $3000

ALTERATIONS
(379) NO. 113 MONTGOMERY. Alter lunch room.
Owner.....I. Mackson, 1459 Oak, S. F.
Architect ...None.
Day's work. COST, $600

ELECTRIC SIGN
(380) NO. 36 SECOND. Electric sign.
Owner.....Electric Railway & Mfg. Supply Co., Premises.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

FRAME DWELLING
(381) S EIGHTEENTH 30 E Lexington Ave. Two-story and basement frame dwelling.
Owner.....Frank K. Moore.
Architect ...None.
Contractor..Antone Peterson, 844 Guerrero, San Francisco.
COST, $3000

FRAME FLATS
(382) W FIFTEENTH AVE 200 S California. Two-story and basement frame (2) flats.
Owner.....Louis & Birdie May, 710-A Clayton, San Francisco.
Architect ...None.
Contractor..Wm. C. Hamerton & Son, 1301 Waller, San Francisco.
COST, $6000

ALTERATIONS
(383) NO. 3355 PACIFIC. Alter dwlg.
Owner.....Mrs. E. Brook, 2637 Union, San Francisco.
Architect ...None.
Contractor..E. C. Bletel, 120 Burnet Ave., San Francisco.
COST, $450

FRAME DWELLING
(384) NO. 707 DE HARO. One-story and basement frame dwelling.
Owner.....Harry Hovde, Premises.
Architect ...None.
Contractor..John C. Paiso, 418 Fremont, an Francisco.
COT, $1500

ROOF SIGN
(385) NO. 1045 MARKET. Roof sign.
Owner.....Foster & Kleiser of Cal., 273 Valencia, S. F.
Architect ...None.
Day's work. COST, $600

FRAME DWELLING
(386) N LESSING 75 E Liebig. One-story and basement frame dwlg.
Owner.....Otto Dressler, 28 Lichig, San Francisco.
Architect ...None.
Contractor..Otto Dressler, 28 Liebig, San Francisco.
COST, $500

ALTERATIONS
(387) NO. 1170 TREAT AVE. Alter dwelling.
Owner.....Walter Phillips, Premises.
Architect ...A. O. Hauling.
Contractor..C. H. Bessett, 343 29th Ave. San Francisco.
COST, $550

ALTERATIONS
(388) NE BUSH AND JONES. Remove composition floors and lay tile floors in apartments.
Owner.....E. C. Heuter, 234 Holbrook Bldg., San Francisco.

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

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TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 54 Turk Street.

hitect ...Grace Jewett, Holbrook Bldg., San Francisco.
tractor..G. McElhinney, 1319 Howard, San Francisco.
COST, $1500

TERATIONS
9) NO. 1327 TWENTIETH AVE. lter and add to dwelling.
ner.....Miss M. Buck, Premises.
hitect ...None.
ntractor..H. J. Hansen, Premises.
COST, $700

AME LAUNDRY
0) N BROADWAY 100 W Polk. One-tory frame laundry.
ner.....E. V. Gould, 1859 Vallejo, San Francisco.
hitect ...None.
ntractor..J. Prout, 2020 Turk, S. F.
COST, $2000

AME DWELLING
91) W MADRID 150 S Amazon. One-tory and basement frame dwlg.
ner.....John Bjorkman, 102 Cordova, San Francisco.
chitect ...None.
y's work. COST, $1950

ASS "C" CHURCH
91) SE CUMBERLAND & DOLORES S 89 E 105 — 25 E 25 N 114 W 130. Structural iron, cast iron and steel work for one-story and basement, mezzanine and gallery Class "C" edifice.
wner.....Second Church of Christ Scientist, Cpn.
chitect ...W. H. Crim, 425 Kearny, San Francisco.
ntractor..Central Iron Works, 651 Florida, San Francisco.
lled Feb. 4, '16. Dated Dec. 29, '15.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $8868
ond, $4434. Sureties, A. F. Schuler nd Geo. S. Green. Limit, 60 days from ecording. Forfeit, $20. Plans and pecifications filed.

392) EXCAVATING, CONCRETE, REinforced concrete and iron work on above.
ontractor..Victor Stanquist, 110 Jessie, San Francisco.
iled Feb. 4, '16. Dated Dec. 30, '15.
Excavating completed ready for pouring concrete $2000.00
One-half concrete poured.... 1878.50
Completed and accepted..... 1878.50
Usual 35 days..... 1919.00
TOTAL COST, $7676.00
ond, $3838. Surety, U. S. Fidelity & Guaranty Co. Limit, 35 days from recording. Forfeit, $20. Plans and pecifications filed.

TILE WORK
393) S SUTTER 115-9 E Powell S 127-6xE 127-6. Tile work for eight-story Class "A" office building.
Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect ...Edgar A. Mathews, 251 Post, San Francisco.
Contractor..Mangrum & Otter, 561 Mission, San Francisco.
Filed Feb. 4, '16. Dated Jan. 31, '16.
One-half completed $588
Completed 588
Usual 35 days..... 593
TOTAL COST, $1569
Bond, $800. Surety, National Surety Co. Limit, with reasonable diligence. Forfeit, none. Plans and specifications filed.

LEASE.

Feb. 3, 1916—NO. 39 GRANT AVE. Julia M Fisher to Philip Klein. 3 years. $19,200.

NOTICE OF NON-RESPONSIBILITY.

Feb. 4, 1916—NW MISSION 173-6 (173.6) NE 29th NE 151-4 (151.4)x 100. Emma M MacGregor and Arrah M Tiffany as to improvements on leased property.....
Jan. 29, 1916—S ARMY 227-1½ E Folsom E 25xS 100. Amy Diel as to improvements on leased property..
Jan. 31, 1916—The store or store occupying the space between the moving picture house known as The Silver Palace Theatre and the easterly wall of Bancroft Bldg., having a frontage of 29 m or 1 on Market with a depth running through to Stevenson street of 170 feet m or 1 with a width in rear of 54 feet m or 1. Paul Bancroft, H H Bancroft, Griffing Bancroft and Philip Bancroft as to improvements on leased property.....
Feb. 1, 1916—E SIXTH AND STEVenson. Lesser Bros & Co as to improvements on leased property...

LEASES

Jan. 31, 1916—NO. 724 HARRISON, N line bet. 3rd and 4th. Ephrem Vorbe to John Papadaches. 60 months. $1500 with option to renew.
Jan. 31, 1916—NE SACRAMENTO AND Fillmore. Walter and Irvine Faubel to William Ettingham. 2 years. $13 per month.
Jan. 31, 1916—N GREENWICH 131-3 W Octavia 25x137-6; N Greenwich 156-3 W Octavia 25x137-6. Giuseppe Burroni to Andrea Poggi and Edoardo Giannini. 5 years. $100 per month.

RELEASE OF BUILDING CONTRACT.

SAN FRANCISCO COUNTY.

Jan. 29, 1916—W ELEVENTH AVE 275 N Fulton N 25x120. Bert Windrow with J Johnson Released. Jan. 28, 1916

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Jan. 26, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to a pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. L Klein & E Borgeson vs E M Reagh..$909.98
Jan. 28, 1916—S UNION 131 W Hyde W 61xS 65. Carl Lamerdin to Paul De Martini .....Jan. 17, 1916
Jan. 28, 1916—LOT 51, BLK 25, Crocker Amazon Tract. Matthew C. Warnock to whom it may concern .....Jan. 27, 1916
Jan. 28, 1916—N CABRILLO 90 E 46th avenue, E 25xN 100. Ralph Mackay to Johnson & Johnson.....
.....Jan. 22, 1916
Jan. 28, 1916—S JACKSON 61-4 E Steiner, E 26xS 62-8¾. Sophie Grannis to whom it may concern
..... Jan. 27, 1916
Jan. 28, 1916—W NEWCOMB AVE 150 S Phelps, S 25x W 100. Peter Salm to M. Ostorero....Jan. 28, 1916
Jan. 28, 1916—NW LONDON 100 SW Brazil avenue, SW 25xNW 100. Franco Indelicato to whom it may concern .....Jan. 18, 1916
Jan. 31, 1916—W STOCKTON 35 N Sacramento N 33-9xW 80. H Bruce Schroeder to Chas Floodberg.....
.....Jan. 22, 1916
Jan. 31, 1916—NE GEARY & PALM Ave E 90x100. Thos or Thomas Scohle to whom it may concern...
.....Jan. 31, 1916
Jan. 31, 1916—E FORTY-SECOND AV 125 S Lincoln Way (H) S 25xE 120. Frank Herman to whom it may concern.....Jan. 31, 1916
Jan. 31, 1916—S CONNECTICUT 125 S 17th 25x100. G Calegari to P Carrara .....Jan. 24, 1916
Jan. 31, 1916—SW GEARY & 17TH Ave S 25xW 82-6. H E Tackaberry to William Martin.....Jan. 27, 1916
Feb. 2, 1916—W NINETEENTH AVE 375 N Cala. Edna A Root to Schroder Bros.....Jan. 28, 1916
Feb. 3, 1916—N ARMY 100-1 W Bryant W 25-0¼ N 93-6⅛ E 25 S 94-7. Harold F Everett to Philip W Montrouil .....Jan. 27, 1916
Feb. 3, 1916—N CALIFORNIA 75 W 17th Ave 25x100. Lloyd B Ham to whom it may concern...Feb. 3, 1916
Feb. 3, 1916—E LISBON 225 N Excelsior Ave. Ward C Brown to whom it may concern....Feb. 2, 1916
Feb. 3, 1916—S TWENTY-FOURTH 45 E Hampshire E 30xS 93. James J Conway to Mager Bros..Feb. 3, 1916

LIENS FILED

San Francisco

Jan. 29, 1916—S ELM AVE, 137-6 E Gough, E 67-6xS 52. M. Bertolino vs. Catherine Black and O. Giannini & Son $133.50
Jan. 29, 1916—S CALIFORNIA 70 E 19th avenue, E 50xS 120. John McKarley vs. L. B. Ham and William A. Savage $293.20
Jan. 29, 1916—LOTS 13, 14 and 17, Blk 34, Sunnyside. W. L. Kern vs. J. H. Platner and City Suburban Home Builders and Home Mutual Deposit Loan Co. and Wm. Grant and J. B. Zindars.....$117.75
Jan. 29, 1916—S ELM AVE, 137-6 E Gough E 27-6xS 55-6. Thomas and James McKee vs. O. Giannini & Son and Katherine Black $25
Jan. 31, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. Joost Bros vs Katherine Black and O Giannini..
....$30.82
Jan. 31, 1916—S ELM 137-6 E Gough E 27-6xS 52. F G Norman & Sons vs O Giannini & Son and Katherine Black $75
Jan. 31, 1916—NE JACKSON AND Cherry E 70 N 112 m or 1 SW 70-4 m or 1 S 106-6⅞. California Granite Co vs Mrs Robert M Loeser
....$337
Jan. 31, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. Leonard Lumber Co. $221.71; Eureka Sash, Door & Moulding Mills, $370.88 vs Katherine Black, A Giannini and E Giannini (as O Giannini & Son)...
Feb. 2, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. Sunset Iron Works vs Mary K Carson and O E Evans & Co..... $23
Feb. 8, 1916—N PARNASSUS AVE 75-5 W Willard W 25xN 94-4½. B

Melano vs Mary K Carson and O E Evans & Co.....$377
Feb. 3, 1916—W THIRTEENTH AVE 125 S Kirkham 25x150. Hiram E Hendrix vs Wm Myers, John O'Reilly and J P Purcell.....$29.25
Feb. 3, 1916—N PARNASSUS AVE 77-5 W Willard W 65xN 94-4½. Empire Planing Mill vs O E Evans & Co and Mary K Carson.....$304.95
Feb. 3, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. H H Appleton vs Mary K Carson and O E Evans & Co.....$41.25
Feb. 3, 1916—W FIFTEENTH AVE 25 S Anza S 25xW 90. Hyman Glick vs J Harold Johnson.....$55
Feb. 4, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. Edwin Roller vs Mary K Carson and O E Evans & Co.....$199.15
Feb. 4, 1916—S PINE 68-9 E Sansome S 96xE 34-4 1-12. N Clark & Sons vs Postal Realty Co.....$2003.71
Feb. 4, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. O E Evans Co vs Mary K Carson... .....$2068.11
Feb. 4, 1916—N EIGHTEENTH 95 E Valencia N 80xE 25. John J Delucchi vs P M McHugh and Ratto & Ratto $235
Feb. 4, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. C W Nelson vs Mary K Carson and O E Evans & Co., Inc.....$136.90

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 3, 1916—NE SIXTH & MINNA N 80xE 100. M J Lyon Co to C Meyer Estate Co .....
Feb. 3, 1916—S CALIFORNIA 70 E 19th Ave E 50xS 120. John McKarley to L B Ham and Wm A Savage .....
Feb. 3, 1916—W SCOTT 77-8¼ N Clay N 25xW 90. Schwarz & Gottlieb, Inc., Gustav Dieckmann to Wm Larsen and Harry Francis Davis .....
Feb. 3, 1916—N FILBERT 133-9 W Broderick — 25 N 137-6 E 25 S 137-6. Western Builders to Molly B and Elliot G Jackson.....
Feb. 3, 1916—SE TWENTY-THIRD & Castro S 26-6xE 105. Bradley & O'Reilly, Hicks Elec Co., Bay City Lumber & Supply Co, Bennett Bros to W D and Mary Sullivan.....
Feb. 4, 1916—E JONES 67-6 S Pine S 30xE 87-6. Michel & Pfeffer to John R Schroeder .....
Feb. 4, 1916—W COMMONWEALTH Ave 445 S Euclid Ave S 40xW 120. Frank Portman, Veyhle & Collins, The Mission Marble Works, The California Door Co to Aimee M and Milton B Lennon.....
Feb. 4, 1916—N ELLIS 77-6 W Leavenworth W 60xN 137-6. J H McCallum, Pacific Portland Cement Co, Consolidated, Joost Bros, Bay Development Co and Pacific Gas & Elec Co to Metropolitan Invst Co Geo Elder and Dunnavant-Oakley Co .....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
146	Mitchell	Harris	2200
147	Buchman	Griffin	2900
148	Univ Invst	Baccus	500
150	Silvernail	Cook	2100
151	Samuels	Bay City	500
152	Couronoux	Boeddeker	1000
153	McWilliams	McWilliams	1000
154	McMaster	McKinnon	1800
155	Mashio	Mashio	7500
156	O'Connor	O'Connor	5000
157	Merritt	Knight	2750
158	Ogden	Ogden	2000
159	Hinch	Lundberg	2500
160	Eddy	Walde	850
161	Moore & Scott	Owner	30000
162	Kolen	Kolen	2000
163	Brincefield	Heijne	7005
164	Welder	Welder	2000
165	Same	Same	2000
166	Boyd	Carlos	2500
167	Pfrang	Pfrang	2500
168	Bertucelli	Benassini	2036
169	Pizzolo	Uccello	1800
170	Thompson	Thompson	1500
185	Crystal Co	Riverman	500
186	Van Sanders	Barber	400
187	Molinello	Molinello	500
188	Moss	Kulchar	500
189	Pfrang	Pfrang	2500

DWELLING
(146) SW PERALTA AVE and Hyde street, Oakland. One-story six-room dwelling.
Owner.....Mrs. E. C. Mitchell, 2608 Peralta Ave., Oakland.
Architect....None.
Contractor..Harris & Hudson, 1957 E-38th street, Oakland.
COST, $2200

FLATS AND ALTERATIONS
(147) NE EIGHTEENTH AND FILbert Sts., Oakland. All work for two-story flats and alter dwelling to flats.
Owner.....H. Buchman, Premises.
Architect....None.
Contractor..C. M. Griffin, 746 5th avenue, Oakland.
Filed Jan. 29, '16. Dated Jan 19, '16.
Frame up .....$ 700
Completed 550
Usual 35 days 1650
TOTAL OST, $2900
Bond, Sureties, Forfeit, none. Limit, 90 days. Pans and specifications filed.

ADDITION
(148) NO. 1321 WASHINGTON, Oakland. One-story brick addition.
Owner.....University Investment Co.
Architect ...None.
Contractor..W. J. Baccus, 520 Oakland Ave., Oakland.
COST, $500

DWELLING
(150) W EMERALD 416 N 41st, Oakland. Two-story 6-room dwelling.
Owner.....A. Silvernail, 3021 Telegraph Ave., Oakland.
Architect ...None.
Contractor..L. T. Cook, 543 30th, Okd.
COST, $2400

ALTERATIONS
(151) SW TWELFTH AND BROADway. Oakland. Alterations.
Owner.....A. Samuels, Premises.
Architect ...None.
Contractor..Bay City Cabinet Co., 1080 5th, Oakland.
COST, $500

ADDITION
(152) NO. 3328 E-17th, Oakland. Addition.
Owner.....Isidore Couronoux, Prem.
Architect ...None.
Contractor..Joe Boeddeker, 1814 34th Ave., Oakland.
COST, $1000

FIRE REPAIRS
(153) NO. 260 E-TWELFTH, Oakland. Fire repairs.
Owner.....R. A. McWilliams, 5845 Ayala, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(154) W TWENTY-FIFTH AVE 100 N E-24th, Oakland. One and one-half-story 6-room dwelling.
Owner.....James McMaster, 2426 25th Ave., Oakland.
Architect ...None.
Contractor..J. W. McKinnon, 2424 25th Ave., Oakland.
COST, $1800

BRICK GARAGE
(155) E BROADWAY 408 N Mather, Oakland. One-story brick garage.
Owner.....Maschio & Treadwell, 274 Whitmore, Oakland.
Architect ...None.
Contractor..H. Maschio, 270 Whitmore, Oakland.
COST, $7500

DWELLING
(156) E GOLDEN GATE AVE 200 S Acacia, Oakland. Two-story 8-room dwelling.
Owner.....J. C. O'Connor, 202 Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

DWELLING
(157) W ROSEDALE AVE 420 S Santa Rita, Oakland. Two-story seven-room dwelling.
Owner.....J. W. Merritt, 1217 High, Oakland.
Architect ...C. H. Miller, Dalziel Bldg., Oakland.
Contractor..Harry C. Knight, 3857 Market, Oakland.
COST, $2750

DWELLING
(158) N SAN JUAN 100 W Rosedale, Oakland. One-story 6-room dwlg.
Owner.....John Ogden, 2046 Rutherford, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(159) N E-TWENTY-FIRST 260 W 19th Ave., Oakland. One-story 5-room dwelling.
Owner.....E. M. Hinch, 1540 Broadway, Oakland.
Architect ...None.
Contractor..E. Lundberg, 595 17th, Oakland.
COST, $2500

ADDITION
(160) NO. 3430 PERALTA AVE., Oakland. Addition.
Owner.....L. H. Eddy, Premises.
Architect ...None.
Contractor..C. F. Walde, 816 Apgar, Oakland.
COST, $850

STEEL AND FRAME MILL
(161) E ADELINE 900 S First, Oakland. Two-story steel and frame mill
Owner.....Moore & Scott Iron Works, 678 2nd, San Francisco.
Engineer ...L. S. Rosener, 1129 Merchants' Exchange Bldg., San Francisco.
Day's work COST, $30,000
NOTE:—Steel let to Pacific Rolling Mill, Sharon Bldg., S. F.

DWELLING
(162) N E-THIRTY-NINTH 345 W Lincoln Ave., Oakland. One and one-half-story 5-room dwelling.
Owner.....Ole Kolen, 3127 Bruce, Okd.
Architect ...None.
Day's work. COST, $2000

FRAME APARTMENTS
(163) E FOURTH AVE 160 N E-15th 40x100, Oakland. All work for two-story frame (2) apartments.
Owner.....John H. Brincefield, Okd.
Architect ...None.
Contractor..Carl A. Heijne, Oakland.
Filed Feb. 2, '16. Dated Dec. 29, '15.

Frame up	$1755
Plastered	1750
Completed	1750
Usual 35 days	1750
TOTAL COT,	$7005

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(164) S E-TWENTY-SECOND 202½ W 19th Ave., Oakland. One-story five-room dwelling.
Owner.....Carrie Weider, 530 Jones, Oakland.
Architect ...None.
Contractor..H. H. Weider, 530 Jones, Oakland. COST, $2000
NOTE:—Frame up and electric work inspected.

DWELLING
(165) S E-TWENTY-SECOND 240 W 19th Ave., Oakland. One-story five-room dwelling.
Owner.....Carrie Weider, 530 Jones, Oakland.
Architect ...None.
Contractor..H. H. Weider, 530 Jones, Oakland. COST, $2000

DWELLING
(166) E CLAREMONT AVE 450 N Hudson, Oakland. One and one-half story six-room dwelling.
Owner.....Boyd & Carlos, Hudson & Claremont, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(167) W EMERALD 366 N 41st, Oakland. One-story 5-room dwelling.
Owner.....L. G. Pfrang, 5441 Shafter Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

ADDITION
(168) N FIFTH 150 W Center, Oakland One-story addition to dwelling into 2 flats.
Owner.....R. Bertucelli, 153 Filbert, Oakland.
Architect ...None.
Contractor..Pio Benassini, 5250 Boyd Ave., Oakland.
COST, $2036

REPAIRS
(169) NO. 315 MYRTLE, Oakland. Fire repairs.
Owner.....C. J. Pizzolo, Premises.
Architect ...None.
Contractor..S. Uccello, 523 52nd, Okd.
COST, $1800

DWELLING
(170) NO. 585 FORTIETH, Oakland. One-story 5-room dwelling.
Owner.....Mrs. Thompson, 1629 Julia, Berkeley.
Architect ...None.
Contractor..C. M. Smith, 3106 35th Ave., Oakland. COST, $1500

ALTERATIONS
(185) NO. 1631 TELEGRAPH AVE., Oakland. Alterations.
Owner.....Crystal Co.
Architect ...None.
Contractor..F. Riverman, 1428 Chestnut, Oakland.
COST, $500

ALTERATIONS
(186) NO. 2144 TELEGRAPH AVE., Alterations.
Owner.....Mrs. Gladys Van Sanders, Premises.
Architect ...None.
Contractor..D. E. Barber, 1619 Market, Oakland.
COST, $400

DWELLING
(187) NE FORTY-FOURTH & GROVE Oakland. One-story 3-room dwelling.
Owner.....John Molinello, 1650 Stockton, San Francisco.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(188) NO. 1321 WASHINGTON, Oakland. Alterations.
Owner.....Moss Glove House, 469 13th, Oakland.
Architect ...None.
Contractor..S. Kulchar & Co., 8th Ave and E-10th, Oakland.
COST, $500

DWELLING
(189) E LAWTON 200 E Hudson, Oakland. One-story 5-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
149	Bovo	Abrahamson	400
171	Hillen	Hillen	2000
172	Hillen	Hillen	2000
173	Hillen	Hillen	2000
174	Hillen	Hillen	2000
175	Hillen	Hillen	2000
176	Hillen	Hillen	2000
177	Hillen	Hillen	2000
178	Hillen	Hillen	2000
179	Hillen	Hillen	2000
180	Hillen	Hillen	1500
181	Hillen	Hillen	1500
182	Hillen	Hillen	2000
183	Sinclair	Sinclair	3000
184	Vernon	West	730

ALTERATIONS
(149) NO. 2326 GROVE, Berkeley. Alterations.
Owner.....Mrs. Bovo, Premises.
Architect ...None.
Contractor..H. R. Abrahamson, 41 Laurel Ave., Oakland.
COST, $400

DWELLING
(171) SW FRANCISCO AND SHORT, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(172) S FRANCISCO 120 W Short, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(173) SW FRANCISCO AND ACTON, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(174) N DELAWARE 195.80 W Short, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(175) N DELAWARE 120 W Short, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(176) N DELAWARE 80 W Short, Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(177) N FRANCISCO 120 W Sacramento Berkeley. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(178) N FRANCISCO 156 W Sacramento, Berkeley. One-story five-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(179) NW SACRAMENTO & FRANCISCO, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(180) E ACTON 100 S Francisco, Berkeley. One-story 4-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $1500

DWELLING
(181) E ACTON 135 S Francisco,, Berkeley. One-story 4-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $1500

DWELLING
(182) S FRANCISCO 40 W Short, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(183) N NAPA 50 W Hopkins, Berkeley One-story 7-room dwelling.

Owner. . .C. E. Sinclair, 5333 Leckesley Ave., Oakland.
Architect . . .None.
Day's work. COST. $3000

COMPLETING DWELLING
(184) COR. MAPLE AVE & DAKOTA, being No. 3500 Maple Ave., Oakland. All work for completing two-story dwelling now being erected.
Owner.....Arthur Vernon, Alameda.
Architect...None.
Contractor..A. R. West and Warren Engles, Oakland.
Filed Feb. 3, '16. Dated Jan. 25, '16.
Ready for lath and plaster.....$240
Standing trim on..... 245
Completed and accepted..... 245
TOTAL COST, $730
Bond, limit, forfeit, none. Specifications only filed.

OAKLAND BUILDING SUMMARY.

For The Month of January, 1916.

Classification of Buildings	No. Permits	Costs
1-story dwelling.....	26	$ 46,275
2-story dwelling.....	8	27,600
1½-story dwelling.....	6	13,500
2-story flats.....	1	3,000
2-story apartments.....	1	8,000
3-story apartments.....	1	10,000
2-story planing mill....	1	500
1-story foundry.....	1	1,300
1-st store room & platform	1	1,000
1-story lavatory.....	1	945
Gasoline station.....	1	400
2-story steel & frm mill	1	30,000
4-story brick apartments and stores.....	1	50,000
Brick garage.....	2	12,985
Brick shed.....	1	450
Concrete garage.....	1	350
Electric signs.....	6	2,750
Additions	10	5,925
Garages	18	2,050
Alterations & repairs...103		31,378
Total 191		$248,408

SUMMARY.

New construction.....	88	$217,030
Alterations & repairs...103		31,378
Total 191		$248,408

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Jan. 29, 1916—LOT 98, Santa Fe Tract No. 20, Oakland. J. J. Benton to Gustaf Johanson.....Jan 28, 1916
Jan. 31, 1916—S BUENA VISTA AVE 80 W Los Angeles W 200xS 100, Okd. Wm O'Neill to G H Wendt... .....Dec. 1, 1915
Jan. 31, 1916—COR. EIGHTEENTH Ave and E-20th, being S 35 Lots 9, 10, 11 and 12 Blk 55 Map San Antonio. Mrs Susan L Smith to D N Stanage.....Jan. 26, 1916
Feb. 1, 1916—LOT 73 Map Nova Piedmont, Piedmont. V N Strang and Lillian Neudeck to whom it may concern.....Jan. 29, 1916
Feb. 1, 1916—LOT 25 BLK "F" Map East Piedmont Heights, Okd. S Elizabeth Caig to David Caig..... .....Jan. 22, 1916
Feb. 2, 1916—LOT 7 BLK "C" Foothill Park Tract, being No. 2624 60th Ave, Okd. Frank Moore and John I Thomas to whom it may concern .....Jan. 28, 1916
Feb. 2, 1916—N 10 LOT 6 and S 15 Lot 7 Blk "B" Revised Map Claremont Ave Tract, Okd. P B Preble....$5000
Feb. 3, 1916—PTN LOT 110 Map Piedmonth-by-the-Lake, Okd. Nellie Gillick (wf John J).....$6500
Feb. 3, 1916—NW CEDAR & EDITH N 100xW 40,, Bkly. Sarah A Conger (wf Aaron L).....$4000
Feb. 4, 1916—S HARWOOD AVE 224.83 E College Ave S 115xE 40.17, Okd. F R Jordan to whom it may concern.....Feb. 3, 1916
Feb. 4, 1916—LOT 20 AND N 10 LOT 29 Blk "F" Map Alton Park, Okd. Richard A E Cotter to O Meyers .....Jan. 30, 1916

LIENS FILED

ALAMEDA COUNTY.

Jan. 29, 1916—W MILES AVE 200 S Cavour St, S 40xW 100, Oakland. Hammond Lumber Co. vs Emelia and Louis Siegrist and J. W. Crowe $52.85
Jan. 31, 1916—N SAN JOSE AVE 300 E Walnut E 50xN 150, Ala. Thomas Arada vs I and Flora Harber..$34.90
Feb. 1, 1916—E GRAND AVE 350 N Weldon Ave N 50xE 128, Oakland. Hogan Lumber Co vs Estelle H and Leo L Nichols.....$413.69
Feb. 3, 1916—SW FRANCISCO AND Sacramento W 80xS 100, Bkly. Pacific Fuel & Building Material Co vs E M Reagh, Henry A Lehfeldt and T D Sexton.....$127.15
Feb. 3, 1916—W RHODA AVE 100 N Madeline N 50xW 125, Okd. Charles Godin vs Prentiss A Hugo.....$98

BUILDING CONTRACTS

SANTA CLARA COUNTY.

MEAT REFRIGERATOR
TAYLOR ST. AND COYOTE CREEK, San Jose. All work for meat refrigerator.
Owner.....The Orlando Meat Co., San Jose.
Architect ...None.
Contractor..Frank L. Hoyt, 58 W-Santa Clara St., San Jose.
Filed Jan. 20, '16. Dated Jan. 18, '16.
When completed $775.00
30 days after completion..... 387.50
90 days after completion..... 387.50
TOTAL COST, $1550.00
Bond, $775. Surety, Pacific Coast Casualty Co. Limit, 20 days. Forfeit, none. Plans and specifications filed.

LIENS FILED.

SANTA CLARA COUNTY.

RECORDED AMOUNT
Jan. 25, 1916—SIXTH & ST. JAMES Sts., San Jose. J D Stewart vs R H and F W Gillespie.....$25

BUILDING CONTRACTS.

SAN MATEO COUNTY.

CONCRETE RESIDENCE
709.1 ACRES, CANADA ROAD, 4 miles west of Redwood City. Artistic metal work for two-story and basement concrete residence.
Owner.....W. B. Bourn, 375 Sutter, San Francisco.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..John Foster, 1426 Howard, San Francisco.
Filed Feb. 1, '16. Dated Jan. 19, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $——
Bond, $1800. Surety, United States Fidelity & Guaranty Co. Limit, Sept. 15, 1916. Forfeit, $10. Plans and specifications filed.

PLUMBING ON ABOVE.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $5979
Bond, $3000. Surety, United States Fidelity & Guaranty Co. Limit, Sept. 30, 1916. Forfeit, $15. Plans and specifications filed.

ROOFING AND SHEET METAL WORK on above.
Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $3295
Bond, $1750. Surety, United States Fidelity & Guaranty Co. Limit, Aug. 15, 1916. Forfeit, $10. Plans and specifications filed.

HEATING ON ABOVE.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $4060
Bond, $2100. Surety, New Amsterdam Casualty Co. Limit, Sept. 30, '1916. Forfeit, $15. Plans and specifications filed.

ERECTION OF STRUCTURAL STEEL work on above.
Contractor..California Constr. Co., Call Bldg., San Francisco.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $3250
Bond, $1625. Surety, Guardian Casualty & Guaranty Co. Limit, June 15, 1916. Forfeit, $10. Plans and specifications filed.

CARPENTRY ON ABOVE.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $37,000
Bond, $18,500. Surety, Massachusetts Bonding & Insurance Co. Limit, Oct. 15, 1916. Forfeit, $25. Plans and specifications filed.

BRICK WORK ON ABOVE.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $21,138
Bond, $10,750. Surety, Massachusetts Bonding & Insurance Co. Limit, July 15, 1916. Forfeit, $20. Plans and specifications filed.

EXCAVATION & CONCRETE WORK on above.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $14,000
Bond, $7000. Surety, Massachusetts Bonding & Insurance Co. Limit, April

30, 1916. Forfeit, $15. Plans and specifications filed.

TO FURNISH AND SET ALL THE terra cotta and tile roof on above.
Contractor..Gladding, McBean & Co., Crocker Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $27,500
Bond, $13,750. Sureties P. G. McBean and Elizaebth Chambers. Limit, July 15, 1916. Forfeit, $20. Plans and specifications filed.

ELECTRIC WIRING ON ABOVE.
Contractor..A. E. Brooke Ridley, 166 Geary, San Francisco.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $3900
Bond, $1950. Surety, National Surety Co. Limit, Sept. 30, 1916. Forfeit, $10. Plans and specifications filed.

FLOOR & WALL TILING ON ABOVE.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
TOTAL COST, $2473
Bond, $1250. Surety, New Amsterdam Casualty Co. Limit, Sept. 30, '16. Forfeit, $10. Plans and specifications filed.

MARBLE WORK ON ABOVE
Contractor..The Mission Marble Works 363 Guerrero, S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $8738
Bond, $4500. Surety, The Aetna Accident & Liability Co. Limit, Oct. 1, 1916. Forfeit, $15. Plans and specifications filed.

GLAZING ON ABOVE.
Contractor..W. P. Fuller & Co., Beale and Mission, San Francisco
Filed Feb. 1, '16. Dated Jan. 1, '16.
Payments same as above.....
TOTAL COST, $1050
Bond, $550. Sureties, E. E. Simmons and H. H. Somers. Limit, Sept. 30, 1916. Forfeit, $5. Plans and specifications filed.

LATHING AND PLASTERING ON above.
Contractor..Floodberg & McCaffery, Monadnock Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 19, '16.
Payments same as above.....
TOTAL COST, $9845
Bond, $5000. Surety, New England Equitable Insurance Co. Limit, Sept. 15, 1916. Forfeit, $10. Plans and specifications filed.

FRAME COTTAGE
LOT 23 BLK 117 South San Francisco Land and Improvement Co., South San Francisco. All work for one-story frame cottage.
Owner.....George Munter, Oakland.
Architect...Herbert B. Maggs, 125 Alpine Terrace, S. F.
Contractor..E. K. Nelson, S. F.
Filed Jan. 31, '16. Dated Jan. 28, '16.
Upon signing agreement.....$150
Building enclosed 300
Window and door casings on.... 300
Building completed 300
Usual 35 days..... 300
TOTAL COST, $1350
Bond, none stated. Surety, D. Torsell. Limit, without undue delay. Forfeit, none. Plans and specifications filed.

NURSES' QUARTERS, ETC.
MENLO PARK near Palo Alto. All work for Nurses' Quarters and girls' housekeeping building.
Owner.....Elise A. Drexler, Kohl Bldg., San Francisco.
Architect...Houghton Sawyer, Sharon Bldg., San Francisco.
Contractor..Stockholm & Allyn, Monadnock Bldg., S. F.
Filed Feb. 1, '16. Dated Jan. 4, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $16,177
Bond, $16,177. Surety, Guardian Casualty & Guaranty Co. Limit, 150 days. Forfeit, $5. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

GARAGE AND HOTEL
PITTSBURG, Contra Costa Co. All work except steel for three-story and basement brick and steel hotel and garage.
Owner.....S. Carusa & Bro., 363 Black Diamond, Pittsburg.
Architect...A. W. Cornelius, Merchants National Bank Bldg., S. F.
Day's work. COST, $——

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Jan. 15, 1916—LOT 3, Anna L Cross Tract, Los Gatos. K R Elwell to J P Christiansen.....Jan. 14, 1916
Jan. 17, 1916—LOT 45 Sanderson Garden Tract (Cook & Brannan Addition), San Jose. John Turturici to whom it may concern.Jan. 15, 1916
Jan. 20, 1916—SEVENTH AND ST. James Sts., San Jose. L E Harris to whom it may concern.Jan. 14, 1916
Jan. 21, 1916—LOT 31 L. A. Polma Terrace, Saratoga. F A Hooker to John Rodoni.....Dec. 9, 1915
Jan. 21, 1916—LOT 31 L. Polma Terrame, Saratoga. E D Hooker to John Rodoni.....Dec. 9, 1915
Jan. 25, 1916—LOT 15 Taylor Sbdvn Blk 11, Cook & Brannan Add'n, San Jose. San Jose Home Builders to T E Keesling.....Jan. 21, 1916
Jan. 29, 1916—OVERLOOK FARM, Los Gatos. Dr F K Ainsworth, S. P Hospital, S. F. to H Hooper.....
.....Jan. 24, 1916

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Jan. 29, 1916—SAN RAFAEL, Marin Co. Anthony Timony to J A Kappenmann.....Jan. 29, 1916
Feb. 1, 1916—SAN ANSLEMO, Marin Co. Edward W O'Brien to whom it may concern.....Jan. 28, 1916
Feb. 1, 1916—SAUSALITO, Marin Co. Sylvester Pearl to R De Luca.....
.....Jan. 31, 1916
Feb. 1, 1916—ROSS, Marin Co. E F Dreger to whom it may concern..
.....Jan. 31, 1916

BUILDING CONTRACTS.

FRESNO COUNTY.

ALTERATIONS
LOTS 1 TO 5 BLK 81, Fresno. Alterations to building.
Owner.....H. Graff & Co., 110 Neilsen St., Fresno.
Architect...None.
Contractor..D. A. Cowan & Son, 1921 Mariposa St., Fresno.
COST, $836.

DWELLINGS
LOTS 9 TO 11 BLK 3, Alta Vista Add'n, Fresno. Two dwellings.
Owner.....W. H. Ackerman, 3rd and Huntington Sts., Fresno.
Architect...None.
Day's work. COST, $2400 each

ALTERATIONS
LOTS 7 TO 10 BLK 71, Fresno. Remodel front.
Owner.....Brix Estate.
Architect...None.
Contractor..A. Allen, 259 Blackstone St., Fresno.
COST, $1125

REMODEL STORE
LOTS 1 TO 5 BLK 81, Fresno. All work for remodeling store building.
Owner.....H. Graff & Co., 1600 White Ave., Fresno.
Architect...E. Mathewson, Cory Bldg., Fresno.
Contractor..D. A. and J. T. Cowan, 1521 Mariposa, Fresno.
Filed Jan. 27, '16. Dated Jan. 26, '16.
On 12th of month 75% and 75% 14 days thereafter .....
Usual 35 days..... 25%
TOTAL COST, $8362
Bond, $5000. Sureties, Wm. Shaw and Fred Bielenberg. Limit, 50 days from Feb. 1, 1916. Forfeit, $20. Plans and specifications filed.

ALTERATIONS
LOTS 14, 15, 16 BLK 109 Sanger, Fresno County. Alterations in rear part of stores.
Owner.....Mary E. Pattison.
Architect...None.
Contractor..J. C. Brandon, Sanger, Fresno Co., Cal.
Filed Jan. 28, '16. Dated Jan. 26, '16.
Materials on ground and walls up $500.00
Upon completion 433.50
Usual 35 days..... 311.15
TOTAL COST, $1244.00
Bond, none. Limit, 60 working days. Forfeit, $50. Plans and specifications filed.

BUILDING CONTRACTS.

FRESNO COUNTY.

GARAGE
LOTS 7, 8 BLK 81, Fresno. Garage.
Owner.....Wm. Shooshan.
Architect...None.
Day's work. COST, $5000

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
Feb. 3, 1916—NO. 726 DUDLEY AVE on E 14 feet Lot 17 W 30½ feet Lot 18 Blk 2, Meadow Brook Tct, Fresno. H H Bates to C Samuelson....
.....Jan. 8 1916
Feb. 3, 1916—SEC 35, 9-15 Oil Well No. 16, Fresno. Kern Trading & Oil Co to whom it may concern.....
.....Jan. 27, 1916
Feb. 3, 1916—DEPOT GROUNDS of S. P. Co., Fresno. Wells Fargo Co to J W Smith..... .....Jan. 25, 1916

BUILDING CONTRACTS

SACHAMENTO COUNTY.

ALTERATIONS
W ½ LOT 7 D, E, 19th and 20th Sts., Sacramento. Move one-story dwelling from 1713 to 1909 F St.; place on new brick foundation and finish off basement making 2 flats of 5 rooms and bath each.
Owner.....Salvator Mandella.
Architect ...None.
Contractor..Dan Tatti, 2116 O St., Sacramento. COST, $1100

ALTERATIONS
W ½ LOT 7, D, E, 19th and 20th Sts., Sacramento. Move one-story dwelling from No. 518 18th St. to 1909 E St. (rear) and place on new concrete foundation and make general repairs.
Owner.....Salvator Mandella.
Architect ...None.
Contractor..Dan Tatti, 2116 O St., Sacramento. COST, $400

FRAME DWELLING
SCHLEY AVE., near Forrest Ave on tract of land of Chas. Rafetto, 50 acres, Sacramento. One-story 5-room frame dwelling with concrete foundation.
Owner.....C. Raffetto, 30th St., bet. K and L Sts., Sacramento.
Architect ...None.
Contractor..Joseph Bruno, 2708 1st Ave Sacramento.
COST, $2215

REPAIRS
NO. 712½ J ST., on W 20 feet of E ½ of Lot 2, J, K, 7th and 8th Sts., Sacramento. General repairs to two-story brick building.
Owner.....Geo. W. Peltier, 2228 21st St., Sacramento.
Architect ...Barton & Hite, 1006½ 9th St., Sacramento.
Contractor..Hickman-Coleman Co., J St., bet. 7th & 8th, Sacramento. COST, $500

FRAME SHED
E 20 FEET LOT 1 and W 77 feet Lot 2 I, J, 17th and 18th Sts., Sacramento. One-story frame wood shed and store room and wagon shed, cement floor and foundation.
Owner.....Jno. Claus, 1706 I St., Sacramento.
Architect ..None.
Contractor..T. W. Johnston, 200 I St., Sacramento.
COST, $400

FRAME BARN
SCHLEY AVE ON Tct of Chas. Raffetto 5 acres, Sacramento. One-story frame barn.
Owner.....C. Raffetto, 30th bet K & L Sts., Sacramento.
Architect ...None.
Contractor..Joseph Bruno, 2708 1st Ave Sacramento.
COST, $300

ICE BOXES
LOT 1, I, J, 17th and 18th Sts., Sacramento. Place and install two ice boxes, track and hangers in bldg.
Owner.....Claus & Kraus, 1700 I St., Sacramento.
Architect ...None.
Contractor..Book & Blair, 1009 Front St., Sacramento.
COST, $4500

ADDITION
S ½ OF N ½ LOT 4, U, V, 5th and 6th Sts., Sacramento. Addition on rear of two-story frame dwelling.
Owner.....John Solo, 2104 6th St., Sacramento.
Architect ...None.
Day's work. COST, $500

ICE BOX, ETC.
NO. 400 M ST., on 60 feet Lot 1, M, N, 4th and 5th Sts., Sacramento. Build ice box, tracks, etc., in butcher shop.
Owner.....Mary T. Lykins, San Francisco; Chas Silva, Lessee.
Architect ...None.
Contractor..Book & Blair, 1009 Front St., Sacramento.
COST, $2600

ICE BOX, ETC.
NO. 1116 NINTH ST., on N ½ of Lot 5, K, L, 8th and 9th Sts., Sacramento. Build ice box, etc., for cafeteria
Owner.....Geo. W. Peltier, 4th and J Sts., Sacramento.
Architect ...None.
Contractor..Book & Blair, 1009 Front St., Sacramento.
COST, $400

ALTERATIONS
NO. 519 K ST., on W ½ Lot 6, J, K, 5th and 6th Sts., Sacramento. Place new floor in store.
Owner.....W. H. Gardner et al, Care Hickman & Coleman Co., 724 J St., Sacramento.
Architect ...None.
Contractor..Ed. W. Book, 2912 G St., Sacramento.
COST, $300

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Jan. 28, 1916—LOT S. S. Levee 108, Lockport, Sacramento. Geo W Locke & Son as to improvements on leased property .....

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

BRICK BUILDING
S CALIFORNIA, bet. Washington and Lafayette, Stockton. One-story brick building.
Owner.....W. J. Hamman, 129 S-California St., Stockton.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
NE AMERICAN AND WORTH STS., Stockton. Frame dwelling.
Owner.....George. F. Thackelford, Stockton.
Architect ...None.
Day's work. COST, $1200

COMPLETION NOTICES

SONOMA COUNTY

RECORDED ACCEPTED
Jan. 21, 1916—PETALMA, CAL. Petaluma School District to Ward & Goodwin.....Jan. 20, 1916

THOUSANDS OF U. S. SOLDIERS SACRIFICED TO UNPREPARDNESS.

"For lack of trained troops, thousands and thousands of our young American citizens have been cruelly sacrificed and warfare needlessly prolonged in every conflict in which this country has been engaged," writes Dr. John Grier Hibben, president of Princeton University, in the February issue of **American Defense**, published for the American Defense Society, of the Advisory Board of which he is a member. "The failure to devise some national policy of adequate military preparedness has resulted throughout our history in making the maintenance of peace incalculably difficult and the termination of war, when it has come, inexcusably and disastrously delayed.

"The many objections to a policy of reasonable preparedness seem to find concentrated expression in the question, But who is our enemy? Against whom are we to prepare? This question is wide of the mark. It is not only illogical, it is trivial and irrelevant. There is no sophistry so disingenuous as that which is concealed in the form of a question whose sole significance lies in the fact that it tends to dodge the point at issue. If this question is not put in the spirit of sophistry, it can have only one possible meaning—that he who asks the question is convinced that the nation should prepare to defend itself only when an enemy is clearly and definitely revealed to us. Let us follow this attitude to its logical conclusion, for it is not sufficient for us to merely feel regarding this important subject, but we should think also.

"Our minds must be quickened as well as our hearts. While following sentiment let us not turn our backs upon reason. If we were only called upon to prepare against a definite and conspicuous enemy then it would be too late to prepare at all.

"With the foe upon our border there is no time for preparedness, only for the mobilizing of our available forces as best we may. This question therefore means that it is time enough to meet the enemy when he is recognized as such. And this would necessitate a complete dependence upon a voluntary army hastily collected and wholly lacking in any knowledge or experience whatsoever of arms. To meet disciplined and seasoned troops by hastily gathered forces of ignorant and unprepared citizens is the height of folly."

STRENGTH OF CONCRETE BRIDGES.

The Federal Office of Public Roads, at Washington, has begun a series of tests to determine the amount of load that can be sustained by concrete bridges of the type used in all parts of the country to span culverts and small streams

An interesting test was that made a few days ago of a reinforced concrete bridge of this class at the Arlington Experimental Farm of the Department of Agriculture. The platform of the bridge measures 16 feet wide and 32 feet long. It consisted of a solid slab of reinforced concrete 10 inches thick, and was supported by concrete abutments about four feet from the ground. The concrete slab was reinforced by three-quarter-inch iron rods about 8 inches apart, extending across it.

The load was applied to the slab by eans of a hydraulic jack rigged ove the bridge. It was brought to ar on a point in the center of the atform. Previously experiments had en made to ascertain what the bridge ould withstand when the load was stributed at four points. As the pres re was exerted any deflection in the ab was measured with instruments signed for that purpose.

It was not until the pressure had mounted to 90,000 pounds that the ncrete slab cracked. A pressure of ,000 pounds was exerted until the nter of the span had been depressed out eight inches, and yet the platrm did not entirely give way.

The test, say officials of the Office Good Roads, demonstrates that the ridge could withstand the weight of vo of the heaviest traction engines, en if applied at a single point in its enter.

Various other experiments are to be ade along similar lines, and in the nd the department will issue a bulletin for general distribution. The bultin will contain information which ill be of value to every part of the untry where highway improvement under way.—Cement Era.

CONCESSIONS GRANTED IN CHILE.

[Consul General L. J. Keena, Valparaiso, Dec. 7, 17, and 21.]

The Government of Chile has granted he following concessions and extenions of time for the construction or he completion of certain works: To Mr. Santiago Schweitzer, a 10-year conession in the town of Calbuco for the urpose of installing an electric light nd power plant; to Mr. William Braen, a permission to lay a telegraph ine between Chanaral and Pueblo Hundido; to Mr. Alfred Steel, a permission to construct a pier destined to nload explosives in the port of Heradura; to Juan de Dios Morande, an xtension of time for the completion of he work of electrifying the railroad between Santiago and Carrascal; to Mr. Carlos Magno Coggiola, permission to build an electric railway from Santiago Blanqueado, with a branch line in Santiago, to Plaza Argentina; to the firm of Sociedad Keller and Wildermann, through Mr. Carlso Schurmann, permission to supply the town of San Jose de la Mariquina with electric light; to Mr. Luis E. Silva, an extension of time for the installation of electric light in the cites of San Antonio and Llolleo.—Commerce Reports.

PREDICTS A NEW TYPE OF CALIFORNIA ARCHITECTURE.

"A renaissance in architecture is due in Los Angeles and San Francisco. I believe that the San Francisco exposition, which was a gem of architecture and a vision of beauty has marked a new era in the development of architecture in California and that you are on the threshold of a distinctive architecture such as many of you have been hoping to see developed here. Your renaissance is coming.

"Mission architecture! As I traveled through your state, I wondered whether the builders of the original missions would have built 'Mission' buildings in the manner in which I have seen so many structure designed."

This was a comment of C. H. Blackall, architect of Boston, where he is one of the leaders of his profession. Mr. Blackall is inspecting the insane asylums of the country preparatory to designing a new institution for the State of Massachusetts, for which he was given the commission.

READY TO BUILD HETCH-HETCHY.

Two thousand men will be put to work on the Hetch-Hetchy railroad by April 1. Between 1,000 and 1,500 men are now camped at Oakdale, Chinese Camps and at other points, waiting for work to begin.

FORD'S GREAT PLANT.

DETROIT.—The Ford plant in Highland Park is to be made three times its present size according to official announcement made recently by Frank L. Kingsmith, vice president and treasurer of the company. Work on the new buildings will begin within thirty days. The addition will cost approximately $10,000,000.

The output of the plant will be trebled and eventually the company will employ 100,000 men. Already it is announced that the intention is to turn out 500,000 cars for 1916.

THE HONGKONG HARDWARE TRADE

[Consul General George E. Anderson, Hongkong, British China, Nov. 29.]

The war's interference with Hongkong's hardware trade has been distinctly to the advantage of the American manufacturer, and more hardware of American make is coming into Hongkong at present than ever before, though the total volume of imports of such goods into the port, and into South China generally, is far below normal. the sale of foreign hardware among the Chinese was increasing, but the high prices now asked for foreign hardware products have resulted in a return to the use of many native tools and appliances; and this fact, together with depressed trade conditions, explains the lower course of imports.

In carpenters' tools the trade heretofore has been chiefly British and German, the latter representing the mass of cheap tools. American tools as a rule are too high in quality and price for the Chinese workman. Chinese tools are still used very largely, and where foreign ones are employed they are mostly British. With the gradual disappearance of the stock of the latter goods however, there has arisen a decided demand for American saws, hammers, vises, and the like. Dealers report that there is usually too much nickel plating about American goods to attract buyers here.

Enameled Ware and Aluminum Utensils

In the enameled-ware trade there seems to be little movement. The greater portion of this trade normally is Austrian. Since the war, however dealers have had to depend upon American and Japanese manufacturers. American goods, as a whole, are high in quality, hence too high in price. the Japanese goods are low in price but too poor in quality to satisfy the trade. Chinese users of enameled basins, cups, and similar articles have come to like a fair quality at a price within their reach. Sales have been large and would be larger if the desired quality could be had, but goods now supplied from any source fail to meet the demand.

American aluminum utensils are increasingly in demand, and the trade is growing independently of war conditions. Before the war German goods were imported in competition with the American products, but the latter were, on the whole, able to dominate the market, and at present are practically the only ones imported.

Cutlery and Locks.

There is a good demand for meat choppers, which is being supplied almost entirely by American makers; but American galvanized buckets apparently are able to little more than hold their own with similar pails from Great Britain. Scissors, pocketknives, and the like are largely American; before the war the Continent had a large share of this trade, but American lines are the ones chiefly imported now. Table cutlery is almost altogether English at present.

The demand for locks is increasing and the goods now purchased are very largely American. The call for American locks of the Yale type is especially strong, and an aggressive campaign is being waged in this market in behalf of a line of American locks, door closers, safes, and similar articles with most satisfactory results.—Commerce Reports.

AMERICAN EXPORTS BREAK ALL RECORDS.

WASHINGTON — American exports increased 770 per cent in 1915 and reached a total of $3,555,000,000, breaking all previous records. Figures by the Department of Commerce show

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods, Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our new stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francirco**

that heavy exports and declining imports together set a new American trade balance record at $1,722,000,000. Imports were the smallest since 1912. The country's total foreign trade—exports and imports—passed the $5,000,000,000 mark during the year, each month showing heavier exports until December's reached $359,000,000. The trade balance was five times greater than in 1914, when it stopped at $324,000,000. Exports hav grown steadily and rapidly for the last four years, the European war checking outgoing shipments only for a brief time. The figures show that the war not only cut imports, but changed their character as well. Seventy-two per cent of last December's imports were duty free against 60 per cent the previous December. This is attributed to the British blockade, which has cut off higher dutiable manufactured products from Central Europe.

GREATEST PRODUCTION OF ANTIMONY ORES.

The prices of antimony in 1915 were probably the highest known since the metal became a regular article of commerce. The highest prices were naturally reflected in far the largest production made in the United States, and probably the same statement is true for the world's production.

According to preliminary figures collected for the United States Geological Survey by Frank L. Hess, the production of antimony ores in the United States is estimated to have been about 5,000 tons, containing about 2,000 tons of antimony, valued at about $325,000.

The price, which in July, 1914, had been down to a monthly average that ranged from 5.44 to 7.11 cents a pound and depended on the brand, rose gradually, though unsteadily, to the end of 1915, when Chinese, Japanese, and American antimony were quoted at about 40 cents a pound.

Miners and smelters, apparently thinking that the high prices would not be held long, did not begin production as quickly as they might have done, but before the close of the year properties in Alaska, California, Idaho, Nevada, Oregon, Utah, and Washington were producing. Prices for ores ranged from $1 to $2.10 per unit of antimony. At first only ores carrying 50 per cent or more antimony were in demand, but before the close of the year 20 per cent ores were shipped from Nevada.

From Alaska, according to data collected by Alfred H. Brooks, about 685 tons of stibnite ore carrying 58 per cent antimony was produced in the Fairbanks district. It is reported that 132 tons were shipped from Nome, but probably more was mined.

from deposits near Wild Rose Spring,

The largest production was made in the Panimint Range, Cal. Other deposits were mined in California—at many places in Kern County, in the eastern end of San Benito County, and on Moore's Flat near Grass Valley. In Nevada considerable quantities were mined at many places, most of them in the northwest quarter of the State. Oregon, Washington, and Idaho produced small quantities of ore, and in Arkansas a company was organized to work old properties west of Gilham.

The present high prices are of course temporary. The Chinese deposits are large and are worked by very cheap labor, and deposits are being developed in other parts of the world, so that as soon as the war is over, and possibly before, prices will probably drop nearly to a level with those of 1914.

FAMOUS ENGINEERS WILL DEVISE PLANS FOR CHICAGO TUBE SUBWAY.

CHICAGO.—Two of the world's greatest underground builders, William Barclay Parsons, who was chief engineer of the old rapid transit commission and planned New York's first subways, and Robert Ridgeway, the present chief of subway construction, have with Bion J. Arnold, a western railroad engineer, accepted the task of devising plans for Chicago's subway system. It is expected that when completed it will represent an outlay of more than $200,000,000.

Mr. Parsons has just arrived in New York after a two-day's conference with the special committee on subways of the Chicago common council and admitted that with Mr. Ridgeway and Mr. Arnold, he had consented to serve on a board of consulting engineers.

It was reported from Chicago that the men would each receive salaries of $30,000 each, but he would not confirm this. It was learned, however, that the board would not consent to give its services until $250,000 has been appropriated for a preliminary survey.

"There is nothing for me to say just now," Mr. Parsons said' "because no definite plans have been made."

RAILROADS TO SPEND MILLIONS.

Practically all of the railroads throughout the country have come into a period of great prosperity. Traffic demands are now taxing their equipment capacities to the utmost. The future is deemed so promising that all of the roads are planning extensive improvements and the expenditures for the work planned will reach well up into the millions and contribute still further to the prosperity now prevailing. The railroads throughout the west are getting their full share of traffic and the volume now handled by them exceeds all former records. The Southern Pacific is about to place orders for $5,000,000 worth of new rolling stock. The Union Pacific plans to purchase $4,000,000 worth of new equipment and the Santa Fe has increased its forces at many points along the line and reports a big increase in the volume of business over its entire system. In California alone the Western Pacific plans to spend more than $10,000,000 in new branch lines, extensions and other improvements and on every railroad line operating in California there will be a vast amount of work done and vast sums expended for such improvements as are needed to keep pace with the increased volume of business being done here.

AMERICAN MANGANESE PRODUCTION FOR YEAR.

The manganese ore and metal industries continue to undergo readjustment, but the impetus given the domestic industry on account of the shortage of foreign ore has not brought forth the production that had been expected. Important exploratory work and preparations for milling have been carried out at several mines in Virginia, Tennessee, Colorado, and California, but except in the case of one mine this has not yet resulted in production. A close estimate of the production in the United States for 1915 can not be made, but it is very doubtful that it exceeded 6,000 tons, as compared with 2,635 tons produced in 1914, according to the United States Geological Survey.

The shortage in high-grade ores for use in the manufacture of flint glass and dry batteries has been keenly felt and several dry-battery plants have been forced to close down.

The shortage of imports forced two important steel producers, Jones & Loughlin Steel Co., of Pittsburgh, Pa., and Maryland Steel Co., Sparrows Point, Md., to devote furnaces to the manufacture of ferromanganese. This is noteworthy because most of the domestic ferromanganese has heretofore been made by two subsidiaries of the United States Steel Corporation, although several more firms have occasionally contributed.

Efforts are being made to conserve during refining the manganese contained in raw pig iron, thereby reducing the amout of ferromanganese that must be added to make steel. If these efforts are successful, they will mark an important advance in steel metallurgy.

During the first 10 months of 1915 Brazil supplied a very large proportion of the manganese oxide and ore that was imported into this country. The total from the South American country was more than twice the average for the preceding three years, and partly made up for the failure of supplies from Russia and India. The receipts from India were about one-twelfth normal and from Russia negligible.

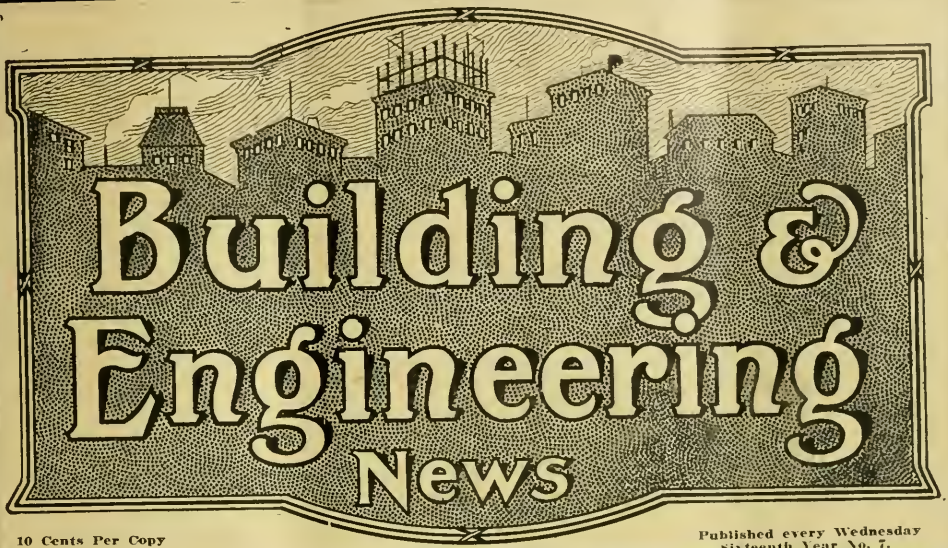
RAILROAD CONSTRUCTION LIGHT.

According to the Railway Age Gazette, only 933 miles of new railroad were constructed in the United States in 1915. This was the least number of miles built in the last fifty-one years. There have been only three years since 1848 in which the increase in mileage was less than 1000. At the close of the year 38,661 miles of road were in the hands of receivers, comprising nearly one-sixth of the total mileage and capitalization of the country.

UNITED STATES STEEL DECLARES QUARTERLY DIVIDEND.

NEW YORK.—The United States Steel Corporation resumed dividend payments in its common stock when the directors declared a quarterly distribution of 1¾ per cent.

The total net earnings of the corporation for the quarter ended December 31, 1915, were $51,232,788 according to the quarterly report. This breaks all records of previous earnings. The net income for the same quarter was $40,853,113 and the surplus $23,300,692.



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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STATE CORPORATION DEPARTMENT

SACRAMENTO, CAL.—The Pioneer Fruit Co., Sacramento, has been permitted by Commissioner of Corporations H. L. Carnahan to sell 2,000 shares of its capital stock at par, $100 per share, so as to net the company the full amount of the selling price. The company has an authorized capital stock of $500,000 and 2379 shares are now outstanding. The company represents net assets over liabilities of approximately $278,000.

Susanville Hotel Company, a corporation, formed for the purpose of building a hotel at Susanville, California, is permitted to sell 1000 shares at par, $100 each. Subscriptions are to be conditional upon raising $50,000 on or before the 1st day of August. The company proposes to purchase a site for $10,000, build a $75,000 hotel and spend $15,000 in furnishing it.

Buttonlath Manufacturing Co., Los Angeles, has been issued a supplementary permit authorizing it to sell the remaining 320 shares from its treasury at par, $100 per share, to net not less than 90%. The company is operating a plant at Vernon.

Death Valley Consolidated Mines Co., is permitted to sell 50,000 shares at 10c per share and pay a commission of 20% payable in stock, also to issue 250,000 shares to B. Lewandowski, Noah Schwartzlose and others in exchange for five mining claims in Inyo County.

Adams-Johnson Lumber Co., Oakland, is permitted to sell 99,995 shares of its capital stock at par, for cash, for the purpose of raising funds with which to conduct lumber yards.

University Investment Co., operating an Oakland business property leased from the University of California, is permitted to issue 48 shares to Frederick Kahn, H. C. Capwell, Geo. H. Lavenson and others in payment of indebtedness to them, and to sell 180 shares to the same persons at par for cash, the money to be used in improving the property.

Higgins Mining & Realty Co., Los Angeles, is permitted to issue 49,994 shares to Thos. Higgins in exchange for the Higgins Building and other real property and mining property owned by him, which are to be handled in corporate form hereafter.

Humboldt Building Co., Eureka, is permitted to sell 130 shares at par, $100 per share.

SAFETY FIRST.

As a further step to safeguard the life of passengers from accident, Western railroads on the first of February, will prohibit the carrying of motion picture films in passenger cars. The celluloid of which the films are made is a highly combustible substance, and the fear that a chance contact with fire might end in disaster.

This action follows that already taken by railroads of the country located in the East and Middle West. A passenger on a suburban train running out of Chicago recently carried into the combination smoking and baggage car four reels of motion picture films and placed it on the floor between the seats. In some way, presumably by a lighted match dropped by a smoker, the films were set off and an explosion occurred in which 38 persons were badly burned, two fatally. As a result railroads are no longer willing to submit their customers to such a hazard.

When films are sent by express, they can be inspected when received for shipment, and carried in the safe manner laid down by the packing rules of the Interstate Commerce Commission.

This ruling has been recommended by the American Railway Association, the Bureau for Safe Transportation of Explosives.

TO ENLARGE PLANT.

RICHMOND, CAL.—Cramped quarters, resulting from a rapidly increasing business necessitated the Pacific Sanitary Manufacturing Company securing a permit from Building Inspector Bert Wierda for the erection of an addition to their present building, Fifteenth street and Barrett avenue.—Richmond Record-Herald.

IRON CONSTRUCTION MATERIALS IN COSTA RICA.

[Consul Chester Donaldson, Port Limon, Costa Rica.]

The total importation of iron construction and roofing materials at this port is valued at about $300,000 per annum, but much of this is intended for sale in the interior cities of Costa Rica. However, the greater part of this business is done by firms having branch houses in both the Port Limon and the San Jose districts. The United States furnishes about 50 per cent of the total; Great Britain about 33 per cent, and Germany 15 per cent.

A list of the principal importers of construction materials in the Port Limon district may be obtained at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco, Cal. Refer to file No. 70556.

WATERWAYS DELEGATES NAMED IN ALAMEDA.

ALAMEDA, Cal.—J. G. Dorward, George H. Fox, J. S. McDowell, Edward J. Silver and Dr. W. O. Smith have been appointed delegates to the Inland Waterways convention to be held at the Palace Hotel, February 25, by the local Chamber of Commerce.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 7 story and base. Class C reinforced concrete, $35,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner's name withheld. Location, O'Farrell street. Will contain a total of 28 suites of three and four rooms. Interior finish pine and hardwood with hardwood floors. Steam heat from city supply. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $46,000. Architect, Joseph Cahen, 45 Kearny St., S. F. Owner, I. Rosenberg. Location, southeast corner of Presidio and Washington, covering an area of 35½ by 52½ feet. Will contain twelve suites of four and five rooms. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water system and vacuum cleaning. Bath rooms tile. Two wall beds to each apartment. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $20,000. Architect, Albert Schroepfer, Foxcroft Bldg., S. F. Owner, Louis D. Stoff. Location, west Taylor north of Sacramento, covering an area of 52½ by 77½ feet. Will contain twelve suites of two and three rooms. Interiors will be finished in pine and elm panels. Hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile and composition. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 5 or 8 story and base. Class C construction. Cost not stated. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name withheld. Location, Larkin near Post. Will contain a number of two, three and four room apartments. Interior finish pine and hardwood with some white enamel. Hardwood floors. Elevator service, steam heat, hot water system and oil burning equipment. Marble and tile wainscot. Bath rooms tile. Wall beds. Exterior faced with pressed brick and cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $35,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, south Turk east of Hyde, covering an area of 30 by 102½ feet. Will contain twenty apartments of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Automatic elevator, steam heat, hot water system and oil burning equipment. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $10,000. Architect, none. Owner, W. J. Keenan, Fulton and Masonic avenue, S. F. Location, northwest corner of Grove and Masonic avenue, covering an area of 25 by 81 feet. Will contain five apartments of three and four rooms. Interiors finished in pine and elm. Some hardwood floors. Hot water system. Bath rooms tile. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, brick and steel, $20,000. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, Larkin between Geary and Post streets, covering an area of 34 by 60 feet. Will contain one store and ten apartments of two rooms each. Interior finish redwood and white enamel. Some hardwood floors. Steam heat from city supply, hot water system and wall beds. Bath rooms tile and composition. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 4 story and base, brick and steel, $30,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Post near Polk, covering an area of 30 by 120 feet. Will contain twenty suites of two and three rooms. Interior finished in pine, gum and white enamel. Hardwood floors. Steam heat, oil burning system, automatic elevator and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base, brick and frame, $22,500. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Robert Dewar. Location, south Sacramento west of Pierce. Designed for residential apartments, and will contain twelve suites of four rooms and bath. Interior finish pine and elm panels. Hardwood floors. Steam heat, oil burning system and hot water supply. Automatic elevator. Bath rooms tile. Marble and tile wainscot. Exterior covered with pressed brick and shiplap. Plans complete. Contract for grading awarded to Phillip O'Donald and balance of work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Western Addition. Will contain fourteen apartments of two, three and four rooms. Interior finish pine and gum. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and shiplap. Plans being prepared.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $15,000. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, 31st street. Will contain twelve apartments of three rooms and bath. Interiors will be finished in pine with some elm panels. Hardwood floors. Steam heat and a hot water system. Bath rooms tile. Wall beds. Exterior will be covered with rustic and cement plaster. Plans being prepared.

Contracts Awarded.

SAN FRANCISCO—Apartment house, 4 story and base, brick and frame, $25,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Contractor, L. A. Hinson, 110 Jessie street, S. F. Contract price, $25,000.

SAN FRANCISCO—Apartment house, 6 story and base, brick and steel, $65,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, George E. Bennett. Contractors, Cameron & Diston, Hearst Bldg., general construction. Contract price, $46,411. Ralston Iron Works, structural steel. Contract price, $1,634. Otis Elevator Co., elevator work. Contract price not stated. Other parts of the work to be let include steam heating, vacuum cleaning, light fixtures, shades and finish hardware and wall coverings.

BONDS.

REDDING, SHASTA CO., CAL.—Edmund Pearson of San Francisco has purchased the entire $480,000 bond issue of the Anderson-Cottonwood Irrigation District, on his bid of $95.63 with accrued interest. Extensive improvements are to be made in this district, and now that funds for the work are available it is thought that work will be under way shortly.

LAKEPORT, LAKE CO., CAL.—The Trustees of the Clear Lake Union High School District have called a bond election to vote $25,000 for the erection of a new school building. Funds for the site for the proposed structure have been secured.

FRESNO, FRESNO CO., CAL.—The Board of Supervisors has authorized the issuance of $25,000 in bonds of the Riverdale School District. The bonds were voted for a new school building. A date for the receipt of bids for the purchase of the bonds will be set by the Supervisors immediately.

HOLTVILLE, IMPERIAL CO., CAL.—Preparations are being made in this city for the erection of a new park pavilion.

WINTERS, YOLO CO., CAL.—Because of a technical flaw in the proceedings, another election must be held to vote bonds for the erection of a new city hall building. The proposed structure is to cost $13,000, the Supervisors appropriating $6,000 of this amount to help finance the construction of the building.

SACRAMENTO, CAL.—The $800,000 San Francisco State building bonds and the $1,500,000 State highway bonds, were sold last week by State Treasurer Richardson to E. H. Rollins & Sons of San Francisco. The highway bonds sold are the last of the issue of $18,000,000 voted in 1910. The sale of these highway bonds will be used in the completion of the State highway, provided for under this issue.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—March 3rd is the date set for the purpose of voting bonds of $100,000 for a new school, furnishing equipment for the building and altering the present ones.

LOS ANGELES, CAL.—Torrance, Marshall & Co. of Los Angeles were awarded the $868,000 bonds of the San Fernando Valley Irrigation District by the County Supervisors.

REDDING, SHASTA CO., CAL.—The Redding City Trustees have voted unanimously in favor of submitting to the voters at the April election the question of the city constructing its own lighting system.

WOODLAND, YOLO CO., CAL.—February 22nd is the date set for the City Council to decide the question of calling a bond election at which time the people will pass their opinion on the issuance of bonds in the sum of $40,000 for water and sewer improvements and $10,000 for a municipal ice plant.

MADERA, MADERA CO., CAL. — Communications have been received from the Carnegie Corporation stating that action will be taken shortly on the request for a $12,500 library building.

STOCKTON, SAN JOAQUIN CO., CAL.—The San Joaquin Valley National Bank last week purchased the $40,000 bond issue of the Lodi School District. A new building will be erected from the proceeds of this sale.

STOCKTON, SAN JOAQUIN CO., CAL.—The South San Joaquin Irrigation District has sold $749,000 worth of bonds of that district to J. R. Mason of San Francisco for 84.78.

PATTERSON, STANISLAUS CO., CAL.—What is said to be the largest dairy in this State will be started by Sir Francis Webster at Patterson. Webster owns the largest dairy in the British Islands. He has purchased 19,000 acres of land from the Southern Pacific Company, and will spend $300,000 in construction work within the next few months.

MERCED, MERCED CO., CAL.—Preparations are being made by the City Trustees to call a bond election to raise funds for purchasing fire fighting equipment, erection of a municipal auditorium and for making improvements to the present water system, including a septic tank.

WOODLAND, YOLO CO., CAL.—The Yolo County Grand Jury has recommended to the Supervisors that a bond election for a sum not to exceed $200,000, be called in the near future for the purpose of erecting the new Court House.

LONG BEACH, LOS ANGELES CO., CAL.—An election will be held shortly to decide the question of issuing and selling bonds in the sum of $500,000 to provide for the erection of a horseshoe pier. A petition for the erection has already been accepted by the City Commission.

RENO, NEV.—The Student Body of the University of Nevada has named a permanent committee to devise ways and means for building a social hall on the campus. The committee will represent the faculty and students and will co-operate with an alumni committee, which has been working on the proposition for several months.

GRASS VALLEY, NEVADA CO., CAL.—Secretary George B. Finnegan of the Nevada County Promotion Committee has forwarded a resolution to the State Highway Commission endorsing the suggestion of that body as to the advantages of the proposed Nevada City-Downieville-Quincy-Susanville route to connect the county seats of the eastern tier of mountain counties, beginning with Placer and ending with Modoc.

ORLAND, GLENN CO., CAL.—The Orland Trustees have fixed March 3rd as the date of the special election, at which the people will be asked to vote $7,000 in bonds for the purchase of additional sites upon which to build the proposed civic center.

SACRAMENTO, CAL.—The State Supreme Court has issued an alternate writ of mandate directed to William Dolge, Auditor of the Marin Municipal Water District, ordering him to countersign the $3,000,000 bonds of the district or else to appear before the court on March 6th and show cause. Dolge has refused to sign on the grounds that the district under its present organization has not the constitutional right to issue and sell the bonds.

POMONA, LOS ANGELES CO., CAL.—Preparations are being made and petitions are in circulation asking the city officials to call a bond election to decide the question of issuing bonds of $200,000 for street improvements.

CALEXICO, IMPERIAL CO., CAL.—The Carnegie Library building construction is being held up pending the securing of a site, as the $30,000 bond issue for the purchase of a civic center, remains unsold.

BAKERSFIELD, KERN CO., CAL.—Bids will be received by the Board of Supervisors up to 10 a. m. of February 19th for the purchase of $60,000 bonds of the Conley High School District. F. E. Smith is Clerk of the Board.

FRESNO, FRESNO CO., CAL.—A. E. Sunderland, President of the Board of Education, has proposed a $400,000 bond issue to provide funds to build additional schools and establish an agricultural institution. Part of this amount has been definitely outlined for the construction of a $35,000 twelve-room Kirk school, and $50,000 for the fifteen-room Edison school.

BARSTOW, SAN BERNARDINO CO., CAL.—A special election will be held April 7th in the Barstow Union High School District to vote bonds in the sum of $30,000 for purchasing a site, and for the erection of a school building.

COVINA, LOS ANGELES CO., CAL.—The City Trustees are considering an ordinance of intention to call a bond election for the purpose of voting bonds in the sum of $105,000 for the purchase of such portions of the present system as can be included in a modern plant for domestic water and fire protection purposes.

YREKA, SISKIYOU CO., CAL.—The City Trustees have adopted a resolution to submit to the voters April 10th, the matter of a $10,000 bond issue for a City Hall, and $2,500 for widening Fourth street leading to the Court House.

TURLOCK, STANISLAUS CO., CAL.—Preparations are being made to call a $50,000 school bond election.

BRIDGES, DAMS AND HARBOR WORK

YUBA CITY, SUTTER CO., CAL.—Bridge steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, Yuba City. Owners, Sutter County. The County Supervisors are considering the erection of a bridge over the Sacramento River at Grimes to take the place of the Grimes Ferry. A petition asking for the construction of the bridge was presented to the Supervisors a few days ago. Further mention will be made of this work when the Supervisors take action.

SACRAMENTO, CAL.—Bridge, timber construction, $2,000. Engineer, County Surveyor, Sacramento. Owners, Sacramento County. Five bids for the construction of a bridge on Figueroa street in Folsom were submitted to the Board of Supervisors. The bidders were Jenkins & Wells, 3520 Y street, Sacramento, $1,733; Ross Construction Co., Forum Bldg., Sacramento, $2,352; Jacobs & Sales, 110 Jessie street, S. F., $2,309; A. McDonald, $2,282; McRea & Layoz, $2,134. The bids were submitted to the contract committee.

RICHMOND, CONTRA COSTA CO., CAL.—Sea wall construction. Cost not stated. Engineers, Haviland & Tibbitts, Alaska Commercial Bldg., S. F. Owners, City of Richmond. Plans have been completed for additional harbor sea wall to be erected at the inner harbor. Bids will be called for shortly on about 2,750 feet. Construction will be of rock, steel and concrete.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, steel and concrete, $15,000. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. At the last meeting of the County Supervisors eleven bids were submitted for the Nojoqui bridge, known officially as Station 248.56. The bids submitted are as follows: Robert Shearer, 650 Pacific Electric Bldg., L. A., $14,737; Boardman Construction Co., Story Bldg., L. A., $14,387; Mercereau Bridge and Construction Co., L. A., $15,470; E. A. Garland, $15,500; C. E. Cotton, S. F., $16,550; Munoz & Munoz, L. A., $16,945; Mesmer & Rice, L. A., $17,000; Whitlock & Gorrill, Hearst Bldg., S. F., $17,800; Marin Rock Co., San Anselmo, $18,450; V. M. Price, S. F., $19,100. All bids were taken under advisement.

SAN RAFAEL, MARIN CO., CAL.—Bridges, 3, reinforced concrete. Cost as folows. Engineer, County Surveyor, San Rafael. Owners, Marin County. The City Manager at the last meeting of the Council submitted plans and specifications for building three concrete bridge, one at C street and Mahon Creek, one at Hayes and Minnie streets and one at Watt avenue, back of the Hotel Rafael. They were adopted and the Clerk was instructed to advertise for bids for the three, the bids to be in March 6th. The estimated cost of the Hayes street bridge is $1,273, Watt avenue bridge $1,043 and C street bridge $550. Plans may be had from the City Clerk at San Rafael.

SEATTLE, WASH.—Sea wall construction, $79,887. Engineer, City En-

gineer, Seattle. Owners, City of Seattle. Bids opened by the Board of Public Works for the construction of a sea wall along the eastern side of Railroad avenue, between Washington and Marion streets, including the paving of that street, show the Jahn Contracting Co., Pioneer Bldg., Seattle, low at $79,887. They will probably be awarded the contract.

VENTURA, VENTURA CO., CAL.—Bridges, steel and concrete. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. The Board of Supervisors rejected all bids received February 4th, and will readvertise for same for furnishing structural steel and cast iron for four bridges as follows: (1) Saticoy bridge, consisting of six steel spans each 129 feet 6 inches long; 358,000 pounds of steel. (2) Sespee bridge consisting of one (1) steel span 240 feet long; 200,000 pounds of steel. (3) Casitas bridge consisting of one combination steel and timber span 200 feet long; 62,000 pounds of steel; 12,800 pounds of cast iron. (4) La Crosse bridge, consisting of one combination steel and timber span 150 feet long; 39,150 pounds of steel; 3,000 pounds cast iron. Approximate estimate of quantities in the four bridges is as follows: Structural steel, 660,350 pounds; bolts and washers, 3,000 pounds; cast iron, 15,800 pounds. The bids were as follows:

California Construction Co., New Call Bldg., S. F., (steel Saticoy bridge, 4 1-6c lb.; Sespee, 5¼c; Casitas, 5 3-10c; La Crosse, 5 3-10c.

Pacific Rolling Mill Co., 17th and Mississippi streets, S. F., Saticoy, 5¾c lb.; Sespe, 5 85-100c; Casitas, 6¼c; La Crosse, 6 65-100c.

Missouri Valley Bridge and Iron Co. Saticoy, 4 38-100c; Sespe, 4 35-100c; Casitas, 4 80-100c; La Crosse, 5 2-100c.

Pennsylvania Bridge Co.: Saticoy, 4 33-100c; Casitas, 4 70-100c; La Crosse, 4 75-100c.

Dyer Bros., Golden West Iron Works, 17th and Kansas streets, S. F.: Saticoy, 5½c; Sespe, 4¾c; Casitas, 6c; La Crosse, 6¼c.

Midland Bridge Co., Kansas City, Mo.: Saticoy, 4 40-100c; Sespe, 4 40-100c; Casitas, 4 95-100c; La Crosse, 4 95-100c.

Clinton Bridge Works, Crocker Bldg., S. F.: Saticoy, 4 29-100c; Sespe, 4 69-100c.

U. S. Steel Products Co., Rialto Bldg., S. F.: Saticoy, 4 56-100c; Sespe, 4 56-100c; Casitas, 5 46-100c; La Crosse, 6 1-100c.

An early time limit for delivery is favored by the Board.

SEELEY, IMPERIAL CO., CAL.—Bridges, steel and timber. Cost not stated. Engineer, County Surveyor, El Centro. Owners, Imperial County. A 300-foot concrete and steel bridge will be built across New River west of Seeley about 400 feet north of the present bridge, and will constitute a portion of the new State highway. A wooden structure will also be built across the New River channel several miles north of the State highway.

Contracts Awarded.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, steel and concrete, $6,727. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractors, M. R. Dominguez and H. E. Walter, Santa Barbara. Contract price $6,727 for Sheep Camp bridge. Mercereau Bridge Construction Co., L. A. Contract price, $9,500 for El Capitan bridge.

AMADOR, AMADOR CO., CAL.—Dam, reinforced concrete, $20,000. Engineer's name not given. Owners, Argonaut Mining Co. Contractors, Bent Bros., Central Bldg., L. A. Contract price, $20,000.

COURT HOUSES.

SAN RAFAEL, MARIN CO., CAL.—Court house additions and alteration, concrete and frame. Cost not stated. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Three propositions were submitted to the Board of Supervisors for improving the present court house. They will be presented to the Board at a special meeting to be held February 21st, and will then be taken under consideration and later on the Board will decide what plan to adopt. One plan is for an addition to be erected on each side of the present building, one-story in height, to be extended out even with the present hall of records, and filling in vacant space between the two buildings. Another plan suggests a manner for remodeling the interior of the court house, making it fireproof, and improving the arrangements, and a third plan suggests the erection of a wing on either side of the present building.

SAN RAFAEL, MARIN CO., CAL.—Court house wiring. Cost not stated. Architect, none. Owners, Marin County. All bids received for wiring the county court house have been rejected by the Board of Supervisors and new bids on the work will be taken until February 21st. The Supervisors at their last meeting awarded a contract for this work, but after further consideration all bids were rejected. G. W. Fox presented the lowest figure for the work at $640.22.

FACTORIES AND WAREHOUSES

ALAMEDA, ALAMEDA CO., CAL.—Ship building plant, $600,000. Engineer, J. D. Barnes, 175 Stewart street, S. F. Owners, J. D. Barnes & Co. J. D. Barnes states that construction will be started within six weeks on the ship building plant to be erected on the Alameda water front. The estimated cost of the plant including equipment is $600,000. The principal construction item will be a dry dock and ways capable of handling vessels up to 4,000 tons. A marine railroad and several frame and corrugated iron shop buildings. Plans are being prepared by the owners, but they have not decided whether to do the work by Day Labor or to let a general contract.

EUREKA, HUMBOLDT CO., CAL.—Nursery, 1 story, slat construction, $10,000. Architect, E. J. Burke, Eureka. Owners, Cottage Gardens Nurseries Co., Eureka. The building will cover an area of 264 by 644 feet. Special heating and water equipment will be installed. Plans are being prepared.

LOS ANGELES, CAL.—Market and warehouses, 6, 2 story and base, reinforced concrete, $6,500,000. Architect, John Parkinson, Security Bldg., L. A. Owners, Los Angeles Union Terminal Co. Location 7th and 8th streets. Will cover an area of 100 by 1250 feet. Construction will be of reinforced concrete and equipped with all modern appliances, elevators, conveyors, chutes, metal window sash, etc. The two market buildings will be constructed at once as the first unit. Additional buildings will be erected as freight sheds for the Pacific Electric Co. Plans are being prepared.

LOS ANGELES, CAL.—Factory, 3 story and base, brick and steel. Cost not stated. Architect, J. M. Cooper, 830 McGarry street, L. A. Owners, Van Vorst & Berman. Location, Santa Fe avenue and Chenery street, covering an area of 108 by 138 feet. Portion of building to be occupied by show rooms and offices and will be finished in hardwood. Elevator service, steam heat, automatic sprinkler. Metal window sash and frames. Exterior faced with ruffled brick. Plans being prepared.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Fire house, 2 story and base, brick and steel, $43,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Contractor, M. A. Zelinsky, general construction, $32,000. Rex Electric Co., electric work, $742. Ickelheimer Bros., lighting fixtures, $615.

FIRE REPORT

SAN FRANCISCO—Savoy Hotel, Ellis and Van Ness avenue; damage estimated at $10,000. F. J. Prosse is manager of the hotel.

EUGENE, ORE.—Business section of Colburg; damage, $35,000.

ROSEVILLE, PLACER CO., CAL.—Two-story frame; damage, $15,000. Owner, William Sawtelle Estate.

FLATS

BERKELEY, ALAMEDA CO., CAL.—Flats, 2 story and base, frame, $4,200. Architects, Schirmer-Bugbee Co., Dalziel Bldg., Oakland. Owner, H. Suermondt. Location, Spruce street. Will contain two flats of five and six rooms. Sleeping porches. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

OAKLAND, CAL.—Flats, 2 story and base, frame, $7,000. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, Second avenue and East 14th street. Will contain four flats of four rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

GARAGES.

SAN FRANCISCO—Garage, 2 story and base, reinforced concrete and steel, $35,000. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. K. Bigelow. Location, north Bush between Powell and Mason, covering an area of 87½ by 137½ feet. Designed for a commercial garage. Two inclines, no elevator. Concrete floors. Special gasoline tanks. Wash room and office. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL.—Garage, 5 story and base, reinforced concrete, $100,000. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, H. Newmark, leased to J. W. Leavitt

& Co. Location, northeast 11th and Hope streets, covering an area of 100 by 150 feet. Construction fireproof with reinforced walls, floors and roof slabs. Interior finish pine and hardwood with tile floors in sales rooms. Steam heat, elevator service and vacuum cleaning. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

GOVERNMENT WORK & SUPPLIES

Machinery for New Battleships.

The initial step toward the acquisition of the propelling machinery, the electric reduction gear type, for battleships Nos. 43 and 44, to be built at the New York and Mare Island navy yards has been taken by the Navy Department. The bureau of steam engineering has submitted a requisition which will result in bids being submitted from the two plants in this country capable of producing this machinery. This includes the gear of 26,000 S. H. P. and the electric plant for ship's service. The estimated cost for each set is $1,000,000. The bids will be opened, as usual, by the bureau of supplies and accounts. It is necessary to award a contract for furnishing the motive power of these vessels, but it is probably that if the electric reduction gear becomes a permanent type as a motive power of battleships, the Navy Department will arrange for the construction of such machinery at a naval plant, in those cases where the vessels are built by the Government, and not at a private shipyard.

Ellensburg, Wash., Post Office.

The following bide were received by the supervising architect, Treasury Department, Washington, D. C., for the construction, complete, of the U. S. post office at Ellensburg, Wash.:

Harding F. Allan, Seattle, Wash., limestone, $61,997; sandstone, $58,900.

R. E. Campbell, Salt Lake City, Utah, limestone, $60,158; sandstone, $59,808.

Thomas E. Young & Co., Seattle, Wash., limestone, $55,843; sandstone, $53,915.

Stebbinger Bros., 626 Broadway Terrace, Portland, Ore., limestone, $58,400; sandstone, $57,400.

Boyajohn-Arnold Co., Portland, Ore., limestone, $72,379; sandstone, $69,687.

J. B. Sweatt, Rookery Bldg., Spokane, Wash., limestone, $67,445; sandstone, $67,902.

Sound Construction & Engineering Co., Seattle, Wash., limestone, $59,918; sandstone, $59,918.

Welch Bros. & Hanaman, Oakland, Cal., limestone, $58,300; sandstone, $57,874.

Olson & Johnson Co., Missoula, Mont., limestone, $61,500; Tenino Washington sandstone, $61,000; Boise sandstone, $62,000.

John Wallin, Tacoma, Wash., limestone, $59,182; sandstone, $58,182.

Eckman & Mowatt, 616 Mutual Life Building, Seattle, Wash., limestone, $63,675; sandstone, Wilkinson, $64,175; Boise, $63,275, and Tenino, $62,575.

Ellensburg, Wash., Post Office.

The following bid was received late by the supervising architect, Treasury Department, Washington, D. C., Jan. 27 for the construction of the U. S. post office at Ellensburg, Wash.:

Allaway & George, Spokane, Wash., limestone, $65,820; sandstone, $64,885.

Pendleton, Ore., Elevator.

As previously reported, the contract for the installation of an electric passenger elevator in the U. S. post office at Pendleton, Ore., was awarded to the Otis Elevator Co., Washington, D. C., at $3,757. In the prosecution of the work fixtures and material manufactured by the following firms will be used: Elevator, motor, and controller, Otis; ammeter, Weston Electrical Instrument Co.; voltmeter, do; safety interlocks, Otis.

Idaho's Famous Garden Spot.

The richest agricultural section of Idaho lies in the valley of Boise River, in the southwestern part of the State. Herein is located the great Boise Government irrigation project, embracing 252,000 acres of exceptionally fertile land.

With an expenditure of nearly $15,000,000, the reclamation service has constructed one of the greatest irrigation systems in the world, including the great Arrowrock dam, 350 feet high. Hundreds of miles of canals have been laid out through the valley, two enormous reservoirs control the flood discharge, and a very prosperous community of 2,000 farm families are now occupying the irrigated farms. The State of Idaho owns approximately 14,000 acres of land under the system, which it has agreed to subdivide and sell at public auction. The State Land Commission at Boise is making a strong bid for settlers in an announcement recently issued of a public sale of nearly 500 farms on February 25. Under the terms of sale, purchasers will have 40 years in which to pay, with interest at 6 per cent. These farms include some of the choicest lands in the valley, located in the midst of a well-settled agricultural community. Interurban trolley systems connect the farming districts with the numerous cities and towns, excellent schools have been established, and the pioneering stage is largely over.

San Francisco Cal., Light Fixtures.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., January 27 for installing lighting fixtures in the U. S. post office at San Francisco, Cal.:

F. Storsberg Co., Newark, N. J., $237; 60 days.

Thomas Day Co., San Francisco, Cal., $120; 36 days.

Horn & Brannen Mfg. Co., Philadelphia Pa., $403.25; 20 days.

Gas Fixture & Brass Co., Cleveland, Ohio, $331.35; time not stated.

Roberts Mfg. Co., San Francisco, Cal., $327.20; informal; time not stated.

Beardslee Chandelier Mfg. Co., Chicago, Ill., for furnishing fixtures only, $247; time not stated; informal.

Missoula, Mont., Post Office.

All bids received by the supervising architect Treasury Department, Washington, D. C., December 29 for the construction of the U. S. post office at Missoula, Mont, have been rejected as excessive.

San Francisco Circular No. 122.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office circular No. 122, opened January 19:

Bid 1, Henry R. Worthington, Sharon Building, San Francisco, Cal.

Building, San Francisco, Cal.

3. Holbrook, Merrill & Stetson, 6th and Bloxume street, San Francisco, Cal.

4. United Iron Works, Oakland, Cal.

5. Universal Trading Co., 171 Broadway, New York City.

6. Dunham, Carrigan & Hayden Co., 140 Kansas street San Francisco, Cal.

7 U. S. Cast Iron Pipe & Foundry Co., Monadnock Building, San Francisco, Cal.

8. Crane Co., 2nd and Brannan Sts., San Francisco, Cal.

9. Vulcan Iron Works, Francisco and Kearny streets, San Francisco, Cal.

10. R. E. Allen, 320 Market street, San Francisco, Cal.

11. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

12. Handlan-Buck Mfg. Co., St. Louis, Mo.

13. North Machine Co., 324 Main street, San Francisco, Cal.

14. Cyclops Iron Works, 837 Folsom street, San Francisco, Cal.

15. California Steam and Plumbing Supply Co., 671 5th street, San Francisco, Cal.

16. American Cast Iron Pipe Co., Sheldon Building San Francisco, Cal.

17. Water Works Supply Co., Monadnock Building, San Francisco, Cal.

Item 3, 1 bend, cast iron water pipe, 14-in, 45 deg—Bid 4, $20.80; 7, $11, accepted; 16 $11.66.

4. 1 do, 14, 22½ deg—Bid 4, $26.40; 7, $9.60, accepted; 16, $10.14.

5. 18 do, 8-in, 90 deg—Bid 4, $10.71 ea; 7, $6.15, accepted; 16, $6.50.

6. 7 do, 8-in 22½ deg—Bid 4, $9.14 ea; 7, $4.60, accepted; 16, $4.87.

7 1 do, 8-in, 5⅝ deg—Bid 4, $17.30 ea; 7, $4.60, accepted; 16, $4.87.

8. 5 do, 12-in, 22½ deg—Bid 4, $15.75 ea; 7, $8.15, accepted; 16, $8.61.

9. 6 do, 8-in, 11¼ deg—Bid 4, $9.10 ea; 7, $4.60, accepted; 16, $4.87.

10. 1 gauge, pressure, single—Bid 6, $3.25 ea; 8, $2.86, accepted.

11. 1 reducer, cast iron water pipe, 10x12 in—Bid 4, $25.15; 7, $8, accepted; 16, $8.48.

12. 1 do, 12x8 in—Bid 4, $25; 7, $7.40, accepted; 16, $7.80.

13. 3 meters, water, 3-in—Bid 1, $65 ea; 5, $58.90, accepted; 10, $85; 12, $98; 16, $72; 17, $73.50.

14. 9,700 lbs oakum, plumbers—Bid 3, 7c lb; 5, 6.23c; 8, 5c, accepted; 12, $4 per bale.

15. 92 lengths pipe, cast iron, 8-in—Bid 7, $34.44 ton, accepted; 16, $35.08.

16. 42 lengths do, 12-in—Bid 7, $34.44 ton, accepted; 16, $35.08.

17. 14 lengths do, 14-in—Bid 7, $35.55 ton, accepted; 16, $36.08.

18. 8,000 lbs steel, concrete reinforced bars, ¼-in—Bid 2, $3 cwt, accepted; 11. $3.10.

19. 238,000 lbs do, ½-in—Bid 2, $2.60 cwt, accepted; 11, $2.70.

20. 280,000 lbs do, ¾-in—Bid 2, $2.50 cwt, accepted; 11, $2.60.

21. 608,000 lbs do, 1-in—Bid 2, $2.50 cwt, accepted; 11, $2.60.

22. 41 tees, cast iron water pipe, 8x8 in—Bid 4, $13.22 ea; 7, $6.15; 15, $9.55, accepted.

23. 5 do, 12x12 in x 8 ft—Bid 4, $24.38 ea; 7, $15.40, accepted; 16, $15.41.

24. 5 do 14x14x8 in—Bid 4, $23.16 ea; 7, $15.80, accepted; 16, $16.57.

25. 4 unions, flange, cast iron, 4-in—

Bid 8, $1.26 ea, accepted; 11, $1.54; 15, $1.31.

26. 6 do, 5-in—Bid 8, $1.89 ea, accepted; 11, $2.31; 15, $1.97.

27. 18 do, 6-in—Bid 8, $2.37 ea, accepted; 11, $2.96; 15, $2.46.

28. 43 valves, gate, 8-in—Bid 3, $19.20 ea; 8, $16.20; 11, $14.50, accepted; 12, $27.90; 15, $15.75; 16, $15.75; 17, 24.65 and $19.65.

29. 1 do, 14-in—Bid 3, $59; 8, $51.90; 11, $51.50; 12, $80.75; 15, $52.50; 16, $50.80, accepted; 17, $66.50 and $49.

30. 8 Ys, cast iron water pipe, 8-in—Bid 4, $12.90 ea; 7, $8.90, accepted; 16, $9.46.

31. 1 do, 10x10x8 in—Bid 4, $34.40 ea; 7, $12, accepted; 16, $14.11.

32. 2 do, 12-in—Bid 4, $27.05 ea; 7, $19.40, accepted; 16, $20.54.

33. 1 crane, traveling, 5 tons capacity—Bid 9, $931 lot; 13, $510; 14, $505.

SAN FRANCISCO—Repair to quarters, frame, $97,000. Engineer, War Department, Washington, D. C. Owners, United States Government. The War Department has made an appropriation of $97,000 for repairs to all frame buildings within the Presidio of San Francisco, and construction will be carried on under the direction of Major Hirsch, Quartermaster at Fort Mason. single beam, accepted.

HALLS AND SOCIETY BUILDINGS.

SACRAMENTO, CAL.—Country club, 1 and 2 story, frame and plaster, $40,000. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Del Paso Country Club. Location, about 1½ miles out of Sacramento. Will contain large lounging rooms, banquet hall, library, special rooms for ladies, smoking rooms, completely equipped kitchen and living quarters. Interior finish pine and redwood. Hardwood floors. Central heating system and open fire places. Exterior cement plaster. About $10,000 to be expended for furniture and fittings and about $25,000 in landscape work and golf links. Plans being prepared. Work to be in charge of William Murcell.

OAKLAND, CAL.—Lodge hall alterations, $4,500. Architect, none. Owners, Odd Fellows Hall Association. Work will consist of installing new lockers, painting, plastering and electric work. Plans complete and figures being taken.

Contracts Awarded.

AVON, CONTRA COSTA CO., CAL.—Auditorium, 2 story, frame, $11,000. Architect, none. Owners, Associated Oil Co. Contractors, Ward & Goodwin, 110 Jessie street, S. F. Contract price, $11,000.

HOSPITALS

SAN FRANCISCO—Hospital wing, 3 story and base. Class A construction. Cost not stated. Architect, Herman Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. Plans have been completed and are now out for figures for the general construction and for the brick and terra cotta work on the southeast wing of the San Francisco Hospital. Bids will be opened by the Board of Public Works on February 23rd. Plans can be secured from the City Department of Architecture, Temporary City Hall.

SAN FRANCISCO—Hospital clinic, 3 story and base, reinforced concrete. Cost not stated. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, Mt. Zion Hospital. Through the generosity of M. A. Gunst a new and modern clinic will be erected on property adjoining the present hospital buildings, Post and Scott streets. Work has not been started on the plans and details will be given later.

SAN FRANCISCO—Hospital, 1 and 2 story and base, reinforced concrete. Cost not stated. Architect, John Reid Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location Polk and Ivy avenue. The Board of Supervisors has commissioned the architect to prepare plans for a new Central Emergency Hospital, and working drawings will be started at once. Further mention will be made of the work when plans are more advanced.

BUTTE, MONTANA — Hospital, 5 story and base, reinforced concrete, $250,000. Architects, C. Lewis Wilson, Montana Power Bldg., Butte, associated with Jesse M. Warren, Haight Bldg., Seattle, Wash. Owner, Dr. T. J. Murray. Will cover an area of 94 by 183 feet. The first floor will be occupied by a garage and stores, the upper floors being given over to the hospital. The main halls of the building are 24 by 136 feet of Raecolith and linoleum. The plans provide for 136 hospital rooms and several offices, operating rooms and lavatories. The building will have brick and terra cotta facing, two elevators, hollow tile partitions. Bids are being taken by the architects at Butte.

Contracts Awarded.

SAN FRANCISCO — Hospital power plant, etc., $100,000. Architect, City Department of Architecture, Temporary City Hall, S. F. Owners, City and County of San Francisco. Contractors, Scott Co., 243 Minna street, S. F., boilers for Relief Home, $5,720. P. F. Walsh, foundation work for boilers, $5,593.

SAN FRANCISCO—Hospital, 4 and 6 story and base. Class A construction, $650,000. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. The following contracts were recently awarded in connection with the completion of the University of California Hospital now under construction at the corner of 4th and Parnassus avenues in this city:

Furring, lath and plastering, Joseph Kaiser, 125 Highland avenue, $40,045.

Carpentry work, McLeran & Peterson Sharon Bldg., $18,300.

Brick work, Arthur Arlett, 251 Post, $50,120.

Architectural terra cotta, Gladding, McBean, Crocker Bldg., $22,000.

Roofing and sheet metal work, United States Metal Products Co., $14,353.

Ornamental Iron Work, Monarch Iron Works, 1161 Howard street, $10,624.

Tiling and flooring, G. McElhinney, 1301 Howard, $21,698.

Marble work, Mission Marble Works, 363 Guerrero, $5,200.

Painting, D. Zelinsky, 564 Eddy street, $14,860.

Glass and Glazing, California Plate and Window Glass Co., 864 Mission street, $4,640.

Lighting fixtures, Thomas Day Co., 725 Mission, $4,300.

Hardware, Bennett Bros., 516 Market street, $7,200.

IRRIGATION PROJECTS

OAKDALE, STANISLAUS CO., CAL.—Spillway and drainage system. Cost not stated. Engineer, Chief Engineer, Oakdale. Owners, Oakdale Irrigation District. Superintendent Burton Smith of the Oakdale Irrigation District has begun the surveys for the drainage system and spillway to be constructed by the district near Claus. The work will cost about $6,500. Plans for this work will be presented to the directors by Mr. Smith at their next meeting, when bids will be ordered called.

POWER IMPROVEMENTS

OAKLAND, CAL.—Water system improvements. Cost as follows. Engineer, Engineering Department People's Water Co., Oakland. Owners, People's water Co. Announcement has been made by officials of the People's Water Company of Oakland that the company will spend $2,000,000 in improvements during this year. Application to issue $9,120,000 in bonds and $8,000,000 in stocks has been filed with the Railroad Commission. From these funds the $2,000,000 will be taken.

SAN RAFAEL, MARIN CO., CAL.—Water main extension, $3,200. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the City Manager filed plans and specifications for the extension of the salt water cast iron mains to run from 2nd street north to 3rd street, out 3rd street to E street, north on E street to 5th street and out 5th street to F street. A lateral will run from 3rd street down D street to Bay View street. The Clerk was instructed to advertise for bids. Plans and further information may be had from the City Clerk, San Rafael.

SACRAMENTO, CAL.—Laying water mains. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Commissioner of Finance Gus Turner has asked City Engineer Miller to render an estimate of the cost of laying new water mains through the old China Basin to the City Commission. Further mention will be made of this work when a report is made.

SAN DIEGO, CAL.—Repairs to water system, $235,000. Engineer, Lockwood, San Diego. Owners, City of San Diego. In furnishing the city with an estimate for putting the water system in shape the engineer includes the following items, exclusive of rebuilding the Lower Otay dam: $100,000 for Dulzura conduit and its extension from Barrett to Houser's creek; $75,000 for the pipe line from Dulzura creet along the Jamul Mountains to Upper Otay; $30,000 for pipe line from reservoir to the outlet tower of Lower Otay; $2,000 repairs to the Bonita pipe line; $1,000 repairs to the Otay-Chollas line, and pumps, etc., in Mission Valley.

SAN DIEGO, CAL.—Water system repairs, $100,000. Engineer, John F. Covert, San Diego. Owners, Sweetwater Co. The Sweetwater Co. will soon begin to repair its water system at an estimated cost of $100,000. The north end hill will be replaced with another spillway probably of larger capacity than the one on the south end, and fitted with hydraulic gates.

Contracts Awarded.

SACRAMENTO, CAL.—Water works addition. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Ambrose & Teichert, Ochsner Bldg., Sacramento. Contract covers the addition to the city's plant at Front and I streets. Contract price not stated.

RAILROAD CONSTRUCTION AND EQUIPMENT.

FRESNO FRESNO CO., CAL.—Railroad construction, $250,000. Engineer's name not stated. Owners, Fresno Interurban Railroad Co. Articles of incorporation have been filed with the County Clerk by the Fresno Interurban Railway Co. The company is capitalized at $250,000 and the directors announce that work will be started shortly on the construction of a railroad ten miles long running from Fresno to Clovis. Provision has also been made for future extensions. The stockhoders are John U. Rogers, Geo. H. Bradner and Paul F. Fratessa. The principal place of business is Fresno. Further mention will be made of this work.

RESIDENCES.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $4,000 each. Architect, none. Owner, J. M. Peters, 1010 Balboa street, S. F. Location, west 14th avenue north of California. Each dwelling will contain six rooms, bath and sleeping porch. Interiors will be finished in pine and some redwood. Hardwood floors will be used in the principal rooms. Mantels will be of brick. Baths will have tile wainscot. Automatic water heaters will be installed. Exteriors of the buildings will be covered with rustic and cement plaster on metal lath. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

SAN FRANCISCO—Residences, 3, 2 story and base, $3,000 each. Architect, none. Owner, E. Ginley, 131 5th avenue, S. F. Location, east 20th avenue south of California. Interiors of the dwellings will be finished in pine and will contain about six rooms and bath. Hardwood floors will be used in the living and dining rooms. An automatic water heater will be installed in each dweling. Elm panels are specified. Mantels will be of brick and tile. Plans are complete and the work will be done by the owner.

SAN FRANCISCO — Residence, 3 story and base, brick, $17,000. Architects, Shea & Lofquist, 742 Market St., S. F. Owners, Rev. M. D. Connolly, 221 Valley street, S. F. (Roman Catholic Archbishop, 1100 Franklin street S. F.) Location, northwest corner of Church and 29th streets. The building has been designed for a dwelling house for the sisters and will cover an area of 44 feet by 100 feet. Interior will be finished in pine and redwood. There will be a number of baths, all of which will have tile wainscot. A considerable amount of art glass will be installed in the building. Plans are complete and the work will be done by Day Labor. Materials for the work are now being purchased.

SAN FRANCISCO — Residence, 2 story and base, frame, $5,000. Architect, none. Owner, Conservative Building and Investment Co., 200 Phelan Bldg., S. F. Location, South Alton east of 9th avenue. The dwelling will contain seven rooms and sleeping porch. Interior will be finished in pine and hardwood. Hardwood floors will be used in the principal rooms. An automatic water heater will be installed. Mantels will be of brick. Open fire places are specified. Elm panels will be used in the dining room. Plans are complete and the work will be done by Day Labor.

SAN FRANCISCO—Residences, 5, 2 story and base, frame, $5,000 each. Architect, August G. Headman, New Call Bldg., S. F. Owner's name withheld. Location, Ashbury Terrace. Each dwelling will contain seven rooms and garage. Interiors will be finished in pine. Hardwood floors are specified. Mantels will be of brick and tile. There will be open fire places and coal burning furnaces heat. Automatic water heaters will be installed. Exteriors of the dwellings will be covered with rustic and cement plaster on metal lath. Plans are being prepared and bids will be called for shortly.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $8,500. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name not given. Location, North Berkeley. The dwelling will contain in the neighborhood of six rooms, sleeping porch and bath. Interior will be finished in pine and redwood. Hardwood floors, automatic water heaters, tile and brick mantels and coal grates are specified. Plans are being prepared and bids will be called for shortly.

OAKLAND, CAL.—Residence, 2 story and base, frame, $1,000. Architect, none. Owner, R. E. Stubbe, 1408 Grand avenue, Oakland. Location, west Grand avenue north of Bonham Way. The dwelling will contain seven rooms and bath. Interior finish pine. Hardwood floors are specified. Automatic water heaters will be installed. Mantels will be of tile or brick. There will be furnace heat and open fire places. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. K. Larson, 1205 30th avenue, Oakland. Location, west 30th avenue north of 12th street. The dwelling will contain five rooms and bath. Interior will be finished in pine. Hardwood floors are specified. An automatic water heater will be installed. Exterior will be covered with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,200. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John Garretson, Thomson Bldg., Oakland. Location, northeast 28th off Bay View. Will contain six rooms and bath. Interior finish pine. Hardwood floors will be used in the dining and living rooms. Mantels will be of tile. There will be gas furnace heat and open fire places. Automatic water heater will be installed. Bed rooms will be finished in enamel. Exterior will be finished with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, F. T. Malley, 3001 Grove street, Oakland. Location, northeast corner of Desmond street and Hemphill Court. Will contain six rooms, bath and sleeping porch. Interior finish will be of pine. Hardwood floors are specified. Bath will be finished in tile. There will be an automatic water heater, brick or tile mantels and open fire places. Exterior will be covered with rustic and cement plaster on metal lath. Plans are complete and in the hands of the owner who will do the work by Day Labor. Materials are now being purchased.

OAKLAND, CAL.—Residence, 1 story and base, frame, $5,000. Architect, Chester H. Miller, Dalziel Bldg., Oakland. Owner's name withheld. Location, Thousand Oaks, Oakland. Will contain eight rooms and two baths. There will be a coal burning furnace. Brick or tile mantels will be provided for. Open fire places, automatic water heater and tile finish in the baths is specified. Interior will be finished in pine. There will be hardwood floors. Exterior will be finished with rustic and Klingstone plaster. Plans are being prepared and bids will be called for shortly.

REDWOOD CITY, SAN MATEO CO., CAL.—Residences, 2, 3 story and base, frame, $10,000 each. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, Judge James A. Troutt. Location, near Redwood City. Each of the dwellings will contain ten rooms and three baths. Hardwood floors will be used throughout. There will be tile wainscot and floors in the baths. Mantels will be of brick and tile. Furnace heat and open fire places are specified. Interiors will be finished in pine, hardwood and white enamel. Automatic water heaters will be installed. Plans are being prepared and bids will soon be called for.

SAN FRANCISCO — Residence, 2 story and base, frame, $8,000. Architect, Edward E. Young, 251 Kearny St., S. F. Owner, Charles W. Gompertz, 503 Market street, S. F. Location, east Broderick north of Green. The dwelling will cover an area of 35 by 50 feet and will contain in the neighborhood of eight rooms and two baths. Hardwood floors will be used in the principal rooms. Elm paneling is specified. There will be furnace heat and open fire places. Mantels will be of brick and tile. Exterior will be covered with rustic and cement plaster on metal lath. Plans are complete and the work will be carried on by Day Labor. Materials are now being purchased.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $1,800 each. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 1430 Cottage street and 2520 Buena Vista avenue. Each dwelling will contain five rooms and bath. Interior will be finished in pine and redwood. Automatic water heaters will be installed. Exteriors will be finished in cement plaster on metal lath and rustic. The work will be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,750. Architect, none. Owner, M. T. Cole, 3200 Fernside Boulevard. Location, south Fairveiw east of High. The dwelling will contain seven rooms and bath. Interior will be finished in pine. Hardwood floors are specified. Mantels will be of brick. An automatic water heater will be installed. Exterior will be covered with cement plaster on metal lath. Plans are complete

and the work will be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, J. C. Kincade, 6604 Dana street, Oakland. Owner, Hazel C. Presley, 1809 Nason street, Alameda. Location, 1002 San Antonia avenue, Alameda. Will contain seven rooms and bath. Interior will be finished in pine and some hardwood. Hardwood floors are specified. An automatic water heater will be installed. Exterior will be faced with cement plaster. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

SAN FRANCISCO — Residence, 2 story and base frame, $2,500. Architect, none. Owner, John F. Haner, 3580 20th street, S. F. Location, northwest 23rd avenue and Rivera. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, B. F. Butler and George Aylworth, 3223A 49th street, Oakland. Location, southeast Grant and Hearst streets. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $4,500. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, Hugh Tye, Jr. Location, Yosemite Terrace. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and elm panels with some white enamel. Hardwood floors, open fire places and furnace heat. Bath rooms tile. Mantels tile or brick. Automatic water heater. Exterior covered with rustic and cement plaster Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL—Residence, 2 story and base, frame, $7,000. Architect, Joseph Losekann San Joaquin Bldg., Stockton. Owner, Mr. Reid, of Noble & Reid. Location, Magnolia and Yosemite streets. Will contain ten rooms, two baths and sleeping porch. A separate garage will be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood floors. Bath rooms tile. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Otto H. Neher, Garland Bldg., L. A. Owner, Otto H. Neher. Location, 3rd and Vermont streets Will contain twelve rooms, three baths and sleeping porches. A two-story garage will also be erected on the property. Interior finish pine, white enamel and hardwood. Central heating system, hot water supply, vacuum cleaning and open fire places. Mantels tile or brick. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, William A. Magie. Location, Oakland aenue. Will contain fourteen rooms, three baths and sleeping porches. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat and hot water system. Bath rooms tile. Exterior covered with cement plaster. Roof clay tile. Plans being figured.

Contracts Awarded.

AVON, CONTRA COSTA CO., CAL.—Residences, 15, 1 story, frame. Cost not stated. Architect, none. Owners, Associated Oil Co. Contractors, Ward & Goodwin, 110 Jessie street, S. F. Contract price not stated.

SANTA ROSA, SONOMA CO., CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, A. Maloof. Contractor, C. D. Roberts, Santa Rosa. Contract price, $1,600.

SCHOOLS

OAKLAND, CAL.—School addition, 1 story, frame and concrete, $10,000. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, City of Oakland. Location, Lakeview School. Addition will be in the nature of a wing, and will contain two class rooms. Interior finish pine with maple floors. Heating system extended from present building. Exterior faced with cement plaster. Plans being prepared.

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick. Cost not stated. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Alameda School District. Location, property bounded by Central avenue, Court, Van Buren and Mound streets. Will contain ten class rooms and assembly hall. Interior finish pine and hardwood with maple floors. Steam heat, oil burning equipment, vacuum cleaning and program clocks. Slate blackboards. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on March 7th at 10 a. m.. Work is being segregated as follows: 1, excavating, concrete work, etc.; 2, brickwork, granite work, cast iron, steel work, etc.; 3, carpenter work, mill work, glass, stairs, roofing, hardware, patent flues, galvanized iron work, etc.; 4, pumbing, gas fitting, marble work, etc.; 5, electric work; 6, lathing, plastering, ornamental work, etc.; 7, heating and ventilating; 8, painting and kalsomining; 9, vacuum cleaner.

CORVALLIS, ORE.—Forestry building, 2 story and base, concrete and brick, $31,340. Architect, John V. Bennes, Chamber of Commerce Bldg., Portland. Owners, Oregon Agriculture College. J. H. Tillman, Portland, submitted the lowest figure for this work at $31,340 and will be awarded the work.

SEATTLE, WASH.—School addition, 2 story and base, brick, $75,000. Architect, Edgar Bair, 1426 Jackson street, Seattle. Owners, City of Seattle. Location, Mercer and Federal, covering an area of 42 by 200 feet. Will contain nine class rooms and a large auditorium. Stairways and corridors will be of reinforced concrete. Interior finish pine with maple floors. Steam heat, vacuum cleaning and program clocks. Exterior faced with pressed brick. Plans complete and and figures to be called for at once.

Contracts Awarded.

FRESNO, FRESNO CO., CAL.—Normal school completion. Class A construction. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Contractors, Greenback Plastering Co., 45 Kearny street, S. F., plastering. George Kay, Fresno, tile work.

SEWERS, STREET WORK & WATER SYSTEMS

SACRAMENTO, CAL.—Street paving. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The City Commission has adopted specifications for the improvement of J street from 31st avenue to Yardley avenue. Specifications were also adopted for the improvement of 29th street from R to Y with curbs, gutters and sidewalks, also for the paving and improvement of 17th street from Q to R and for Front street from Q to S. Specifications for this latter improvement provide for a bulkhead at R street where the street forms a levee. Bids on this work will be called for shortly.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer work. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council at their last meeting decided that Leech & De Camp, 14 Montgomery street, San Francisco, contractors, will be forced to go ahead with their contract to construct sanitary sewers in this city or forfeit their certified check, amounting to something over $4,000. A communication from the San Francisco firm, stating that they could not proceed with the work without suffering a great loss, due to the advance in price of terra cotta, and asking that the contract be rescinded, was received by the Council, which caused them to render the decision. The work consists of the construction of sanitary sewers in Fair Oaks avenue, East street, and Oak and West streets.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has approed plans and specifications for storm sewers in East Lafayette street, Fair Oaks avenue, Hazel avenue, Laurel, East, East Anderson, Taylor and Worth streets, with branches on East Mormon avenue and Court alley, and bids have been ordered received up to February 18th. Plans may be secured from the City Clerk at Stockton.

AUBURN, PLACER CO., CAL.—Septic tank and sewer system. Cost not stated Engineer, City Engineer, Auburn. Owners, City of Auburn. The City Trustees have ordered plans and specifications received from engineers for the construction of a septic tank and sewer system. The closing date for receiving the plans has been set for February 21st. Further information may be had from the City Clerk at Auburn.

SALINAS, MONTEREY CO., CAL.—Highway improvement. Cost not stated Engineer, County Surveyor, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors County Surveyor Cozzens' plans and

specifications for the improvement of the portion of the Monterey-Salinas road from the Laurellos road junction to the Monterey city limits were adopted and bids ordered advertised for. The bids for the same will be opened at 2. p. Tuesday, March 7th. Plans may be had from the County Clerk at Salinas.

SALINAS, MONTEREY CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Salinas. Owners, City of Salinas. The City Council at their last meeting discussed the paving of several streets in Salinas. No action was taken, and the matter was taken under advisement until the next meeting.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the improvement of 55th avenue from East 14th street to Foothill Boulevard. The improvement will consist of grading, curbing, construction of gutters, paving with oil macadam and the construction of corrugated iron and concrete culverts. Bids on this work will be called for shorty.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the improvement of 100th avenue from Bancroft avenue to Foothill Boulevard. The improvement will consist of paving with asphalt pavement, corrugated iron and concrete culverts, etc. Bids on this work will be called for shortly.

VISALIA, TULARE CO., CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Visalia. Owners, City of Visalia. Fifteen more blocks of street paving are to be ordered by the City Trustees, in keeping with their decision to pave as many streets as the people may want. This will be new paving not heretofore mentioned, and not including the north Church street, Oak and East street paving, which plans and specifications have already been called for. The new paving will be south of Locust street, south Garden street and a block on Willow street. More is to follow this, it is declared, including south Court and north Encina. The board at its last meeting was unable to pass upon the plans and specifications for the paving of north Church, Acequia, Oak and East streets by reason of the fact that the City Engineer has not been able to learn from the Santa Fe what type of switches were to be included in the plans and specifications. Further mention will be made of this work.

REEDLEY, FRESNO CO., CAL.—Sewers. Cost not stated. Engineer, City Engineer, Reedley. Owners, City of Reedley. The City Trustees at their last meeting ordered the City Engineer to proceed with plans and specifications as recommended by the State Board of Health, for the construction of sewers in this city. Bids will be called for on the approval of the plans. Further mention will be made of this work.

KINGSBURG, FRESNO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. The City Council has overruled the protests of property owners, and has ordered the paving of Simpson street on the line of the State Highway. The Council will now pave the street for its full length with a strip of paving 21 feet wide. The residents wanted the road macadamized over its full width. Bids will probably be called shortly.

RICHMOND, CONTRA COSTA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Richmond. Owners, ity of Richmond. A resolution of intention has been passed by the City Council providing for the grading of streets in the Canal subdivision, the construction of sanitary sewers in said Canal subdivision, and the construction of a sump and pumping station. Plans for this work, prepared by City Engineer Chapman, have been approved by the City Council. Bids will be called for shortly. Further mention will be made of this work.

MODESTO, STANISLAUS CO., CAL.—Concrete pipe. Cost as follows. Engineer, Chief Engineer, Modesto. Owners, Modesto Irrigation District. At the last meeting of the board of directors of the Modesto Irrigation District, bids were opened for laying of 5,000 feet of 24-inch concrete pipe in the main drainage canal of the district in Wood Colony. The two lowest bids, Geo. A. Bos, Hearst Bldg., S. F., $4,452, and F. O. McIntire, 215 East Weber St., Stockton, $4,612, were retained for consideration until next week. The other bidders were: Contra Costa Construction Co., 336 10th street, S. F., $7,800, Tieslau Bros., 110 Jessie street, S. F., $5,220, and W. S. Gause, Piedmont, Oakland, $6,690. Further mention will be made of this work when the contract is awarded.

OAKLAND, CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received by the Oakland City Council up to and including February 24th for constructing an 18-inch ironstone pipe sewer in Prospect Drive, a 24-inch in Union street, seven brick manholes and other necessary work. Plans can be secured from the City Clerk.

LINDSAY, TULARE CO., CAL. — Street paving. Cost not stated. Engineer, City Engineer, Lindsay. Owners, City of Lindsay. At the regular meeting of the City Trustees a resolution was passed ordering the paving of Hermosa street from Gale Hill avenue to the east limits of the city. The pavement will consist of a three-inch bituminous base, with a two-inch asphalt concrete wearing surface. The materials will be put down in two separate compressions. Sealed bids for the work will be opened February 23rd. Plans may be secured from the City Clerk at Lindsay.

MADERA, MADERA CO., CAL.—Septic tank. Cost not stated. Engineer, W. H. Castner, Madera. Owners, City of Madera. At the City Trustees' last meeting W. H. Castner, who was represented by H. N. Bundock, was given a commission to draw up the plans for a septic tank, after a personal investigation of the needs of the city, and to have them ready for the Board at their next meeting. Bids will be called for on the approval of the plans.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost as follows. Engineer, County Surveyor, Bakersfield. Owners, Kern County. The County Highway Commission recommended that contracts be awarded as follows: Division 10, section 6, Bakersfield-Mojave road: Leigh G. Garnsey, 403 East Third street, L. A., lowest bidder, $13,136.20. Division 7, section 7, Bakersfield-Taft road: W. E. Green, Tulare, Cal., lowest bidder, $50,891.61. Division 11, section 1, Caliente-Kernville road: A. M. & J. L. Hooper, lowest bidder, $3,368.70.

SAN RAFAEL, MARIN CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. Plans for widening and improving the road from Liberty's to the summit of the Bolinas ridge were presented by Supervisor Burke at the last meeting of the Supervisors. Action was laid over until the next meeting.

SAN RAFAEL, MARIN CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. The Board of County Supervisors at their last meeting ordered the Clerk to advertise for bids for improving the road from Willow Camp to the head of Bolinas Bay. Bids to be opened at the meeting on March 7th. Plans may be had from the County Clerk at San Rafael.

OAKDALE, STANISLAUS CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. The City Trustees by unanimous vote ordered the City Attorney to prepare the resolution of intention to pave F street, and instructed the City Engineer to prepare the specifications for the pavement. The Trustees decided on an 18-foot pavement, with a 2½-inch concrete foundation and a top dressing of Topeka 1½-inch thick. The resolution will call for the paving of F street only from the eastern limits of the city to Bryan street. Bids on this work will be called for shortly.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. At the last meeting of the County Supervisors, County Surveyor Neuman was instructed to prepare plans and specifications for the construction of the Hillsborough to Half Moon Bay road and the Pescadero to San Gregorio road. Bids will be called for on completion of the plans.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sewers. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. The City Council has passed a resolution of intention providing for the following work: That Palm street, northwesterly from the produced middle line of that portion of Seaside avenue that extends southerly from said Palm street, be sewered with 624.25 lineal feet of vitrified, salt-glazed, ironstone sewer pipe having an internal diameter of six inches; also that 25 Y branches, each having a 4-inch opening and 3 brick manholes with cast iron rings, covers and dust pans, be constructed. Said Y branches shall be constructed of first quality vitrified, salt-glazed, ironstone sewer pipe. Bids on this work will be called for shortly.

REDWOOD CITY, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Redwood. Owners, Redwood City. After hearing protests from property owners on south Main street, the Board of Town Trustees decided to change the plans and specifications for street work on the above thoroughfare so as to eliminate the corrugated iron cul-

verts at the intersection of the cross streets. Only two culverts are to be included in the new specifications, one across Elm street and the other from Hancock across Main and up to Pine street. Bids for this work will probably be called at the next meeting.

STORES AND OFFICES.

SAN FRANCISCO—Store, 2 story and base. Class C construction, 23,000. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owner, Marion Leventritt, leased to Woolworth Co. Location, west Mission south of 22nd, covering an area of 40 by 125 feet. Interior finish pine. Patent store fronts and marble bases. Special cabinet work and store fixtures. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Offices, 12 story and base. Class A construction. Cost not stated. Architect, Willis Polk, Hobart Bldg., S. F. Owners, McCreery Estate, leased to Western Union Telegraph Co. Location, northeast corner Pine and Montgomery streets. Ground floor and at least two of the upper floors will be occupied by the Western Union. Complete steel frame, brick and concrete walls, concrete floors. Interior finish hardwood and metal trim. Elevator service, steam heat, vacuum cleaning. Metal window sash and frames. Exterior faced with pressed brick and terra cotta. Steel contract awarded to a Pittsburgh, Pa., firm. Balance of the work to be figured shortly.

SAN FRANCISCO—Office building addition, 4 story. Class A construction. Cost not stated. Architect, Sylvain Schnaittacher, 233 Post street, S. F. Engineer, M. Couchot, 110 Sutter street. Owners, Matson Navigation Co. Location, Drumm, California and Market streets. A four-story addition will be made to the present eight-story structure. The steel contract has already been awarded to the California Steel Co. and segregated figures will be taken on the balance of the work. Interior of the new floors will be finished in pine and hardwood. Metal window sash and frames are specified. Mechanical equipment will be extended. Exterior will be faced with pressed brick and terra cotta. Plans are complete.

SAN FRANCISCO—Market, 1 story and base, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owner, Charles S. Howard. Location, north Bush west of Mason, covering an area of 68½ feet by 86 feet. Tile floor and wainscot. Interior finish pine and white enamel. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Store fixtures, etc., 2,500. Architect, Joseph Cahen 45 Kearny street, S. F. Owners, Schwartz & Goodman, 879 Market street. Work will consist of altering the store fronts installing new store fixtures and shelves. Plans complete and figures being taken.

RICHMOND, CONTRA COSTA CO., CAL.—Store and offices, 2 story and base, brick, $14,000. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, W. E. Cunningham. Will contain a large store on the ground floor and a number of modern offices above. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on February 26th.

MARTINEZ, CONTRA COSTA CO., CAL.—Stores and offices, 2 story, frame, $7,500. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owners name withheld. Will contain stores on the first floor and offices above. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded.

OAKDALE, STANISLAUS CO., CAL.—Irrigation office, 1 story and base, reinforced concrete, $8,584. Architects, Stone & Wright, 24 South California street, Stockton. Owners, Oakdale Irrigation District. Contractor, H. P. Devick, Oakdale. Contract price, $8,584.

THEATRES

MONROVIA, LOS ANGELES CO., CAL.—Motion picture studio, 1 and 2 story, frame and steel, $200,000. Architect, F. O. Eager, 101 East Greystone avenue, Monrovia. Owners, Monrovia Feature Film Co. Only part of the structures, estimated to cost $25,000, will be erected at the present time. The final expenditure will total $200,000. Included in the buildings will be a moving picture stage, 500 by 100 feet; administration building, zoo, swimming pool, 75 by 200 feet; garages, a lake, and an indoor studio of glass and steel. Up-to-date equipment is planned for the different buildings.

SEALED PROPOSALS

NOTICE TO CONTRACTORS.

Office of the Board of Education of Alameda, Alameda County, California.

Bids will be received by the Board of Education of the City of Alameda, State of California in the City Hall, Alameda, California, until **10 o'clock A. M. March 7th, 1916,** for the construction and completion of a Two-Story and Basement Brick School Building, on that piece of property situated in the said city of Alameda and bounded on the north by Central avenue, on the east by Court street, on the south by Van Buren street, and on the west by Mound street, for each of the following departments of work:

Department 1. Excavating, Concrete Work, etc.

Department 2. Brick Work, Granite Work Cast Iron, Steel Work, etc.

Department 3. Carpenter Work, Mill Work, Glass, Stairs, Roofing Hardware, Patent Flue, Galvanized Iron Work, etc.

Department 4. Plumbing, Gas Fitting, Marble Work, etc.

Department 5. Electric Work.

Department 6. Lathing, Plastering, Ornamental Work etc.

Department 7. Heating and Ventilating.

Department 8. Painting and Kalsomining.

Department 9. Vacuum Cleaner.

Plans and specifications for each of the nine (9) separate departments or classes of work are on file in the office of the Board of Education in the Alameda City Hall and copies may be obtained upon the deposit of Ten Dollars ($10.00) which said deposit will be returned upon the return of said plans and specifications. No bidder shall keep said plans and specifications for a period exceeding five (5) days. If any bidder retains said plans and specifications for a period exceeding five (5) days, then said deposit of Ten Dollars ($10.00) shall be forfeited to the City of Alameda.

Bidders may make their bids on any or all of said departments or classes of work, or on any combination of two or more departments. No bid will be considered unless accompanied by a certified check payable to the order of C. J. Du Four, Secretary of the Board of Education, certified to by some responsible bank for an amount not less than ten per cent of the aggregate amount of the bid or proposal which it accompanies—said check to be forfeited to the City of Alameda as agreed and liquidated damages should the party or parties to whom the contract or contracts should be awarded fail to enter into the contract or contracts within ten (10) days after the award or fail to give a bond or bonds for the faithful performance of a contract or contracts.

Bidders shall make their bids on the blank forms furnished with the plans and specifications.

All bids must be enclosed in sealed envelopes addressed to the Board of Education of the City of Alameda, and be endorsed on the envelope "Bid for the Construction and Completion of the Lincoln School," followed by a designation as to the department or departments for which the bid is made.

All bids that do not comply with the above provisions in this notice will be thrown out as informal.

The Board of Education reserves the right to reject any or all bids or proposals, or to waive any technicality in any bid, should they deem it in the interest of the district to do so.

Dated, February 1st, 1916.

JAMES M. SHANLY,
President of the Board of Education of the City of Alameda.

C. J. DU FOUR,
Secretary of the Board of Education of the City of Alameda.

PROPOSALS FOR SUPPLIES.

SEALED PROPOSALS in triplicate will be received by the Quartermaster General of the Army, Washington, D. C., until **2 o'clock p. m. Eastern time, March 6, 1916,** for furnishing Stationery, Office Supplies and Office Furniture (Schedule No. 1); Hardware and Tools (Schedule No. 2); Toilet Articles, Soap and Cleaning Materials (Schedule No. 3); Cordage, Canvas and Burlap (Schedule No. 4); Packing, Waste and Hose (Schedule No. 5); for delivery during the fiscal year 1917, at Depots of the Quartermaster Corps listed in schedule. Schedules furnished upon application to Quartermaster General, U. S. Army, Washington, D. C. or by Depot Quartermaster, Fort Mason, San Francisco, Cal.

PROPOSALS FOR CANAL SUPPLIES

PANAMA CIRCULAR 1013—Office of the General Purchasing Officer, Panama Canal, Washington, D. C.—Sealed proposals will be received here until **February 26, 1916,** for furnishing nickel chrome dipper teeth, transformers, panel boards, watt-hour meters, electric fans, reflectors, electric switches, electric fittings, screwdrivers, pliers, wire solder, white fiber, sheet rubber, rubber rods, insulating tape, stay binding, electric cable and wire. For further information address F. C. BOGGS, Major, Corps of Engineers, U. S. Army, General Purchasing Officer.

PROPOSALS FOR STEEL CASES.

STEEL CASES — Treasury Department, Office of the Supervising Architect Washington, D. C.—Sealed proposals will be received at this office until **3 p. m. February 23, 1916,** and then opened, for supplying steel cases for the U. S. post office building at Phoenix, Ariz., to be made in strict accordance with department drawing and specifications. The department reserves the right to reject any or all bids and to waive defects. Telegraphic bids or modifications of bids will not be considered. Each proposal must be accompanied by a certified check in the sum of 10 per cent of the aggregate amount thereof, drawn to the order of the Treasurer of the United States, as a guarantee of good faith. JAMES A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR BUILDING.

BUILDING — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. March 10, 1916** for the construction of the United States post office at Kalispell, Mont. Drawings and specifications may be obtained from the custodian at Kalispell, Mont., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR METAL WORK.

METAL WORK — Sealed proposals will be opened by the light house inspector, Ketchikan, Alaska, at **2 o'clock p. m. March 10, 1916**, for furnishing metal work for structural steel tower at Dewey Rocks Light Alaska. Specifications, etc., upon application to light house inspectors at Ketchikan, Alaska; Portland, Ore., or San Francisco, Cal.

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Tuesday, March 14th, 1916**, said bids then and there to be publicly opened and read for furnishing all plant, materials and labor, and doing the work required for the complete construction and erection of the "Girls' Nursery," Sonoma State Home, Eldridge, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Girls' Nursery, Sonoma State Home, Eldridge, California."

(Signed) W. F. McCLURE,
State Engineer.

PROPOSALS FOR REPAIRS.

1. Sealed proposals, in triplicate, will be received here until **10 a. m., March 2, 1916**, and then opened, for furnishing the labor, materials and appliances necessary to perform repair work at the San Francisco National Cemetery, Presidio of San Francisco, Calif., in accordance with the specifications hereto attached.

2. Bidders should note prices on items of work as follows:

(a) Lump sum for work provided for in Paragraph 7, a and b of the specifications.

(b) Lump sum for work provided for in Paragraph 8 of the specifications.

(c) Lump sum for work provided for in Paragraph 9 of the specifications.

Unless bidders qualify their proposals by stating that they will not accept award for less than all of the work bid for, the Government will exercise the right of awarding contract according to its best interests for a single item of work or for any number of items, at the prices stated in the proposal.

3. Proposals must be out on Q. M. Corps Form No. 118.

4. Attention is invited to the General Instructions to Bidders (Form No. 109b), hereto attached, which in so far as applicable form a part of this circular. With reference to Paragraph 6 of said Instructions to Bidders, contract will not be made subject to approval of the Quartermaster General (formerly Chief of the Quartermaster Corps.)

5. Proposals should be enclosed in sealed envelopes marked "Proposals **for Repair Work**" to be opened **10 a. m, March 2, 1916**, and addressed to the Depot Quartermaster, Fort Mason, San Francisco, Calif. W. H. HART,
Lieutenant Colonel Q. M. Corps, D. Q. M.

PROPOSALS FOR BUILDING.

BUILDING—Department of the Interior, Office of Indian Affairs, Washington, D. C.—Sealed proposals plainly marked on the outside of the sealed envelope "Proposals for Additions to Stone Dormitory, Leupp School, Arizona" and address to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until **2 o'clock p. m of February 21, 1916**, for furnishing materials and labor for additions to stone dormitory, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the United States Indian warehouses at Chicago, Ill., and St. Louis, Mo., and Builders' Exchange, St. Paul Minn., and at the office of the superintendent of the Leupp School, Leupp, Ariz. For further information apply to the superintendent of the Leupp School. CATO SELLS, Commissioner.

PROPOSALS FOR STONE.

STONE—U. S. Engineer Office, First District, 802 Couch Building, Portland, Ore.—Sealed proposals for furnishing stone for north jetty construction at mouth of Nehalem River, Ore., will be received here until **11 a. m. February 21, 1916**, and then opened. Information on application.

PROPOSALS FOR CEMENT.

CEMENT—Sealed proposals will be opened by the light house inspector, Ketchikan Alaska, at **2 o'clock p. m. March 1, 1916**, for furnishing and delivering f. o. b. lighter at Katalla, Alaska, approximately 300 barrels of Portland cement for Cape St. Elias Light Station. Information upon application to above office.

PROPOSALS FOR STEEL CASES.

STEEL CASES — Treasury Department, Office of the Supervising Architect, Washing, D. C.—Sealed proposals will be received at this office until **3 p. m. February 15, 1916**, and then opened, for supplying steel cases for the U. S. post office buildings at Philadelphia, Pa., and Salt Lake City, Utah, to be made in strict accordance with department drawings and specifications. The department reserves the right to reject any or all bids and to waive defects. Telegraphic bids or modifications of bids will not be considered. Each proposal must be accompanied by a certified check in the sum of 10 per cent of the aggregate amount thereof, drawn to the order of the Treasurer of the United States as a guarantee of good faith. JAMES A. WETMORE, acting supervising architect.

NOTICE TO CONTRACTORS.

Office of the Board of Education of Alameda, Alameda County, Calif.

Bids will be received by the Board of Education of the City of Alameda, State of California, in the City Hall, Alameda, Calif., until **10 o'clock a. m. Tuesday, March 7, 1916**, for the construction and completion of a **Two-story and basement brick addition to the Washington School**, situated at the southeast corner of Eighth and Santa Clara Avenue in the City of Alameda, State of California, for each of the following departments of work:

Department 1. Excavating, Grading, Brick and Concrete Work.

Department 2. Structural and Miscellaneous Iron Work.

Department 3. Carpenter Work, Mill Work, Glass, Stairs, Hardware, Tiling and Marble Work.

Department 4. Plastering, Lathing, Cementing, Etc.

Department 5. Felt and Gravel Roofing.

Department 6. Painting, Tinting.

Department 7. Plumbing, Drains, Gas Fitting and Sheet Metal Work.

Department 8. Electric Work.

Department 9. Heating and Ventilating.

Plans and specifications for each of the nine (9) separate departments or classes of work are on file in the office of the Board of Education in the Alameda City Hall and copies may be obtained upon the deposit of Ten Dollars ($10.00) which said deposit will be returned upon the return of said plans and specifications. No bidder shall keep said plans and specifications for a period exceeding ten (10) days. If any bidder retains said plans and specifications for a period exceeding ten (10) days then said deposit of Ten Dollars ($10.00) shall be forfeited to the City of Alameda.

Bidders may make their bids on any or all of said departments or classes of work or on any combination of two or more departments. No bid will be considered unless accompanied by a **certified check**, payable to the order of **C. J. DuFour, Secretary of the Board of Education**, certified to by some responsible bank for an amount not less than **10%** of the aggregate amount of the bid or proposal which it accompanies, said check to be forfeited to the City of Alameda as agreed and liquidated damages should the party or parties to whom the contract or contracts should be awarded fail to enter into the contract or contracts within ten (10) days after the award or fail to give a bond or bonds for the faithful performance of a contract or contracts.

Bidders shall make their bids on the blank forms furnished with the plans and specifications. All blanks in the bid forms shall be completely filled in, giving all proposals asked.

All bids must be enclosed in sealed envelopes addressed to the **Board of Education of the City of Alameda**, and be endorsed on the envelope **"Bid for the Construction and Completion of the Addition to Washington School,"** followed by a designation as to the department or departments for which the bid is made.

All bids that do not comply with the above provisions in this notice will be thrown out as informal.

The Board of Education reserves the right to reject any or all bids or proposals.

Dated, February 2, 1916.

(Signed) JAMES SHANLEY,
President of the Board of Education of the City of Alameda.

(Signed) C. J. DuFOUR,
Secretary of the Board of Education of the City of Alameda.

May Limit New York Skyscrapers.

NEW YORK.—Taxpayers' organizations of the city will meet with the advisory council of real estate interests, to consider the question of limiting the height of buildings and districting the city into zones. City officials will also take part in the meeting. It is the consensus of opinion among real estate owners that the limitation of height of buildings will do much to stabilize property values. It is pointed out that the erection of skyscrapers causes adjacent property to depreciate in value and deprives the smaller buildings of tenants. The general conference to be held will center public attention upon the new program as outlined by the commission on building districts and restrictions.

INDIANS MAY BUILD ROADS.

It is possible that Indians will be used in the construction of a road providing Colorado with an automobile outlet to the southwest and the Grand Canyon of Arizona. The suggestion of an Indian-made road is being considered because most of the country through which this highway would run is on or adjoining Indian reservations.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—2, 2 story and base, frame, $4,000 each. San Francisco. Architect, none. Owner, J. M. Peters, 1010 Balboa street, S. F. Location, west 14th avenue north of California. Each dwelling will contain six rooms, bath and sleeping porch. Interiors will be finished in pine and some redwood. Hardwood floors will be used in the principal rooms. Mantels will be of brick. Baths will have tile wainscot. Automatic water heaters will be installed. Exteriors of the buildings will be covered with rustic and plaster on metal lath. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

RESIDENCES—3, 2 story and base, $3,000 each. Architect, none. Owner, E. Ginley, 131 5th avenue, S. F. Location, east 26th avenue south of California. Interiors of the dwellings will be finished in pine and will contain about six rooms and bath. Hardwood floors will be used in the living and dining rooms. An automatic water heater will be installed in each dwelling. Elm panels are specified. Mantels will be of brick and tile. Plans are complete and work will be done by the owner.

RESIDENCE — 3 story and base, brick, $17,000. San Francisco. Architects, Shea & Lofquist, 742 Market St., S. F. Owners, Rev. M. D. Connolly, 221 Valley street, S. F. (Roman Catholic Archbishop, 1100 Franklin street S. F.) Location, northwest corner Church and 29th streets. The building has been designed for a dwelling house for the sisters and will cover an area of 44 feet by 100 feet. Interior will be finished in pine and redwood. There will be a number of baths, all of which will have tile wainscot. A considerable amount of art glass will be installed in the building. Plans are complete and the work will be done by Day Labor. Materials for the work are now being purchased.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architect, none. Owner, Conservative Building and Investment Co., 200 Phelan Bldg., S. F. Location, south Alton east of 9th avenue. The dwelling will contain seven rooms and one sleeping porch. Interior will be finished in pine and hardwood. Hardwood floors will be used in the principal rooms. An automatic water heater will be installed. Mantels will be of brick. Open fire places are specified. Elm panels will be used in the dining room. Plans are complete and the work will be done by Day Labor.

RESIDENCES—5, 2 story and base, frame, $5,000 each. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, not stated. Location, Ashbury Terrace. Each dwelling will contain seven rooms and garage. Interior will be finished in pine. Hardwood floors are specified. Mantels will be of brick and tile. There will be open fire places and coal burning furnace. Automatic water heaters will be installed. Exteriors of the dwellings will be covered with rustic and cement plaster on metal lath. Plans are being prepared and bids will be called for shortly.

RESIDENCE — 2 story and base, frame, $8,000. San Francisco. Architect, Edward E. Young, 251 Kearny St., S. F. Owner, Chas. W. Gompertz, 503 Market street, S. F. Location, east Broderick north of Green. The dwelling will cover an area of 35 by 50 feet and will contain in the neighborhood of eight rooms and two baths. Hardwood floors will be used in the principal rooms. Elm paneling is specified. There will be furnace heat and open fire places. Mantels will be of brick and tile. Exterior will be covered with rustic and cement plaster on metal lath. Plans are complete and the work will be carried on by Day Labor. Materials are now being purchased.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, E. B. Spitler, 815 Oxford street, Berkeley. Location, south El Dorado east of The Alameda. Will contain six rooms and bath. Interior will be finished in pine and some redwood. Baths will have tile wainscot and floors. An automatic water heater will be installed. Hardwood floors, furnace heat and brick or tile mantels are specified. Elm panels will be used in the dining room. Exterior will be covered with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

APARTMENT HOUSE—7 story and base. Class C, reinforced concrete, $35,000. San Francisco. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner's name withheld. Location, O'Farrell street. Will contain a total of 28 suites of three and four rooms. Interior finish pine and hardwood with hardwood floors. Steam heat from city supply. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $10,000. San Francisco. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, I. Rosenberg. Location, southeast corner of Presidio and Washington, covering an area of 95½ feet by 52½ feet. Will contain twelve suites of four and five rooms. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water system and acuum cleaning. Bath rooms tile. Two wall beds to each apartment. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

APARTMENT HOUSE—3 story and base, frame, $20,000. San Francisco. Architect, Albert Schroepfer, Foxcroft Bldg., S. F. Owner, Louis D. Stoff. Location, west Taylor north of Sacramento, covering an area of 52½ by 77½ feet. Will contain twelve suites of two and three rooms. Interiors will be finished in pine and elm panels. Hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile and composition. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 or 8 story and base. Class C construction. Cost not stated. San Francisco. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name withheld. Location, Larkin near Post. Will contain a number of two, three and four room apartments. Interior finish pine and hardwood with some white enamel. Hardwood floors. Elevator service, steam heat, hot water system and oil burning equipment. Marble and tile wainscot. Bath rooms tile. Wall beds. Exterior faced with pressed brick and cement plaster. Plans being prepared.

APARTMENT HOUSE—4 story and base. Class C construction, $35,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, south Turk east of Hyde, covering an area of 30 by 102½ feet. Will contain twenty apartments of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Automatic eleator, steam heat, hot water system and oil burning equipment. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures being taken.

APARTMENT HOUSE—3 story and base, frame, $10,000. San Francisco. Architect, none. Owner, W. J. Keenan. Fulton and Masonic avenue, S. F. Location, northwest corner of Grove and Masonic avenue, covering an area of 25 by 81 feet. Will contain five apartments of three and four rooms. Interiors finished in pine and elm. Some hardwood floors. Hot water system. Bath rooms tile. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, brick and steel, $20,000. San Francisco. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, Larkin between Geary and Post streets, covering an area of 34 by 60 feet. Will contain one store and ten apartments of two rooms each. Interior finish redwood and white enamel. Some hardwood floors. Steam heat from city supply, hot water system and wall beds. Bath rooms tile and composition. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

APARTMENT HOUSE—4 story and base, brick and steel, $30,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Post near Polk, covering an area of 30 by 120 feet. Will

contain twenty suites of two and three rooms. Interior finished in pine, gum and white enamel. Hardwood floors. Steam heat, oil burning system, automatic elevator and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

APARTMENT HOUSE—4 story and base, brick and frame, $22,500. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Robert Dewar. Location, south Sacramento west of Pierce. Designed for residential apartments and will contain twelve suites of four rooms and bath. Interior finish pine and elm panels. Hardwood floors. Steam heat, oil burning system and hot water supply. Automatic elevator. Bath rooms tile. Marble and tile wainscot. Exterior covered with pressed brick and shiplap. Plans complete. Contract for the grading awarded to Phillip O'Donald and balance of work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Western Addition. Will contain fourteen apartments of two, three and four rooms. Interior finish pine and gum. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and shiplap. Plans being prepared.

APARTMENT HOUSE—6 story and base, brick and steel, $65,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, George E. Bennett. Contractors, Cameron & Disston, Hearst Bldg., general construction. Contract price, $46,411. Ralston Iron Works, structural steel. Contract price, $1,634. Otis Elevator Co., elevator work. Contract price not stated. Other parts of the work to be let include steam heating, vacuum cleaning, light fixtures, shades, finish hardware and wall coverings.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, John F. Haner, 3580 20th street, S. F. Location, northwest 23rd avenue and Rivera. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

GARAGE—2 story and base, reinforced concrete and steel, $35,000. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. K. Bigelow. Location, north Bush between Powell and Mason, covering an area of 87½ by 137½ feet. Designed for a commercial garage. Two inclines, no elevator. Concrete floors. Special gasoline tanks. Wash room and office. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

REPAIRS TO QUARTERS—Frame, $97,000. San Francisco. Engineer, War Department, Washington, D. C. Owners, United States Government. The War Department has made an appropriation of $97,000 for repairs to all frame buildings within the Presidio of San Francisco, and construction will carried on under the direction of Major Hirsch, Quartermaster at Fort Mason.

HOSPITAL WING—3 story and base. Class A construction. Cost not stated. San Francisco. Architect, Herman Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. Plans have been completed and are now out for figures for the general construction and for the brick and terra cotta work on the southwest wing of the San Francisco Hospital. Bids will be opened by the Board of Public Works on February 23rd. Plans can be secured from the City Department of Architecture, Temporary City Hall.

HOSPITAL CLINIC—3 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, Mt. Zion Hospital. Through the generosity of M. A. Gunst a new and modern clinic will be erected on property adjoining the present hospital buildings, Post and Scott Sts. Work has not been started on the plans and details will be given later.

HOSPITAL—1 and 2 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, Polk and Ivy avenue. The Board of Supervisors has commissioned the architect to prepare plans for a new Central Emergency Hospital and working drawings will be started at once. Further mention will be made of the work when plans are more advanced.

STORE—2 story and base. Class C construction. $23,000. San Francisco. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owner, Marion Leventritt, leased to Woolworth Co. Location, west Mission south of 22nd, covering an area of 40 by 125 feet. Interior finish pine. Patent store fronts and marble bases. Special cabinet work and store fixtures. Exterior faced with pressed brick. Plans complete and figures being taken.

OFFICES—12 story and base. Class A construction. Cost not stated. San Francisco. Architect, Willis Polk, Hobart Bldg., S. F. Owners, McCreery Estate, leased to Western Union Telegraph Co. Location, northeast corner Pine and Montgomery streets. Ground floor and at least two of the upper floors will be occupied by the Western Union. Complete steel frame, brick and concrete walls, concrete floors. Interior finish hardwood and metal trim. Elevator service, steam heat, vacuum cleaning. Metal window sash and frame. Exterior faced with pressed brick and terra cotta. Steel contract awarded to a Pittsburgh, Pa., firm. Balance of the work to be figured shortly.

OFFICE BUILDING ADDITION — 4 story. Class A construction. Cost not stated. San Francisco. Architect, Sylvain Schnaittacher, 233 Post street, S. F. Engineer, M. Couchot, 110 Sutter street. Owners, Matson Navigation Co. Location, Drumm, California and Market streets. A four story addition will be made to the present eight-story structure. The steel contract has already been awarded to the California Steel Co., and segregated figures will be taken on the balance of the work. Interior of the new floors will be finished in pine and hardwood. Metal window sash and frames are specified. Mechanical equipment will be extended. Exterior will be faced with pressed brick and terra cotta. Plans are complete.

MARKET—1 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, Charles S. Howard. Location, north Bush west of Mason, covering an area of 68½ by 86 feet. Tile floor and wainscot. Interior finish pine and white enamel. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

STORE FIXTURES, ETC.—$2,500. San Francisco. Architect, Joseph Cahen, 45 Kearny street, S. F. Owners, Schwartz & Goodman, 879 Market St., Work will consist of altering the store fronts, installing new store fixtures and shelves. Plans complete and figures being taken.

Contracts Awarded.

APARTMENT HOUSE—4 story and base, brick and frame, $25,000. San Francisco. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Contractor, L. A. Hinson, 110 Jessie street, S. F. Contract price, $25,000.

FIRE HOUSE—2 story and base, brick and steel, $43,000. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Contractor, M. A. Zelinsky, general construction, $32,000. Rex Electric Co., electric work, $742. Ickelheimer Bros., lighting fixtures, $615.

HOSPITAL POWER PLANT, ETC.—$10,000. San Francisco. Architect, City Department of Architecture, Temporary City Hall, S. F. Owners, City and County of San Francisco. Contractors, Scott Co., 243 Minna street, S. F., boilers for Relief Home, $5,720. P. F. Walsh, foundation work for boilers, $5,593.

HOSPITAL—4 and 6 story and base. Class A construction, $650,000. San Francisco Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. The following contracts were recently awarded in connection with the completion of the University of California Hospital now under construction at the corner of 4th and Parnassus avenues in this city:

Furring, lath and plastering, Joseph Kaiser, 125 Highland avenue, $10,045.

Carpentry work, McLeran & Peterson, Sharon Bldg., $18,300.

Brick work, Arthur Arlett, 251 Post, $50,120.

Architectural terra cotta, Gladding, McBean, Crocker Bldg., $22,000.

Roofing and sheet metal work, United States Metal Products Co., $14,-353.

Ornamental Iron Work, Monarch Iron Works, 1161 Howard street, $10,-624.

Tiling and flooring, G. McElhinney, 1391 Howard, $21,698.

Marble work, Mission Marble Works, 363 Guerrero, $5,200.

Painting, D. Zelinsky, 564 Eddy street, $14,860.

Glass and Glazing, California Plate and Window Glass Co., 864 Mission street, $4,640.

Lighting fixtures, Thomas Day Co. 725 Mission, $4,300.

Hardware, Bennett Bros., 516 Market street, $7,200.

OAKLAND AND ALAMEDA COUNTY

SCHOOL—2 story and base, brick. Cost not stated. Alameda, Alameda Co., Cal. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Alameda School District. Location, property bounded by Central avenue, Court, Van Buren and Mound streets. Will contain ten class rooms and assembly hall. Interior finish pine and hardwood with maple floors. Steam heat, oil burning equipment, vacuum cleaning and program clocks. Slate blackboards. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on March 7th at 10 a. m. Work is being segregated as follows: 1, excavating, concrete work, etc.; 2, brickwork, granite work, cast iron, steel work, etc.; 3, carpenter work, mill work, glass, stairs, roofing, hardware, patent flues, galvanized iron work, etc.; 4, plumbing, gas fitting, marble work, etc.; 5, electric work; 6, lathing, plastering, ornamental work, etc.; 7, heating and ventilating; 8, painting and kalsomining; 9, vacuum cleaner.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the improvement of 55th avenue from East 14th street to Foothill Boulevard. The improvement will consist of grading, curbing, construction of gutters, paving with oil macadam and the construction of corrugated iron and concrete culverts. Bids on this work will be called for shortly.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention providing for the improvement of 100th avenue from Bancroft avenue to Foothill Boulevard. The improvement will consist of paving with asphalt pavement, corrugated iron and concrete culverts, etc. Bids on this work will be called for shortly.

RESIDENCE — 2 story and base, frame, $8,500. Berkeley, Alameda Co., Cal. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name not given. Location, North Berkeley. The dwelling will contain in the neighborhood of six rooms, sleeping porch and bath. Interior will be finished in pine and redwood. Hardwood floors, automatic water heaters, tile and brick mantels and coal grates are specified. Plans are being prepared and bids will be called for shortly.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, none. Owner, R. E. Stubbe, 1408 Grand avenue, Oakland. Location, west Grand avenue north Bonham Way. The dwelling will contain seven rooms and bath. Interior finish pine. Hardwood floors are specified. Automatic water heater will be installed. Mantels will be of tile or brick. There will be furnace heat and open fire places. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, R. K. Larson, 1205 30th avenue, Oakland. Location, west 30th avenue north of 12th street. The dwelling will contain five rooms and bath. Interior will be finished in pine. Hardwood floors are specified. An automatic water heater will be installed. Exterior will be covered with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,200. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson, Thomson Bldg., Oakland. Location, northeast 28th off Bay View. Will contain six rooms and bath. Interior finish pine. Hardwood floors will be used in the dining and living rooms. Mantels will be of tile. There will be gas furnace heat and open fire places. Automatic water heaters will be installed. Bed rooms will be finished in enamel. Exterior will be finished with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, F. T. Malley, 3001 Grove street, Oakland. Location, northeast corner Desmond street and Hemphill Court. Will contain six rooms, bath and sleeping porch. Interior finish will be of pine. Hardwood floors are specified. Bath will be finished in tile. There will be an automatic water heater, brick or tile mantels and open fire fire places. Exterior will be covered with rustic and cement plaster on metal lath. Plans are complete and in the hands of the owner who will do the work by Day Labor. Materials are now being purchased.

RESIDENCE — 1 story and base, frame, $5,000. Oakland, Cal. Architect, Chester H. Miller, Dalziel Bldg., Oakland. Owner's name withheld. Location, Thousand Oaks, Oakland. Will contain eight rooms and two baths. There will be a coal burning furnace. Brick or tile mantels will be provided for. Open fire places, automatic water and tile finish in the baths is specified. Interior will be finished in pine. There will be hardwood floors. Exterior will be finished with rustic and Klingstone plaster. Plans are being prepared and bids will be called for shortly.

RESIDENCES—2, 1 story and base, frame, $1,800 each. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 1430 Cottage street and 2520 Buena Vista avenue. Each dwelling will contain five rooms and bath. Interiors will be finished in pine and redwoo. Automatic water heaters will be installed. Exteriors will be finished in cement plaster on metal lath and rustic. The work will be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,750. Alameda, Alameda Co., Cal. Architect, none. Owner, M. T. Cole, 3200 Fernside Boulevard. Location, south Fairvew east of High. The dwelling will contain seven rooms and bath. Interior will be finished in pine. Hardwood floors are specified. Mantels will be of brick. An automatic water heater will be installed. Exterior will be covered with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Alameda, Alameda Co., Cal. Architect, J. C. Kincade, 6604 Dana street, Oakland. Owner, Hazel C. Presley, 1809 Nason street, Alameda. Location, 1002 San Antonia avenue, Alameda. Will contain seven rooms and bath. Interior will be finished in pine and some hardwood. Hardwood floors are specified. An automatic water heater will be installed. Exterior will be faced with cement plaster. Plans are complete and the work will be done by Day Labor. Materials are now being purchased.

RESIDENCE — 1 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, E. B. Spitler, 815 Oxford street, Berkeley. Location, south El Dorado east of The Alameda. Will contain six rooms and bath. Interior will be finished in pine and some redwood. Baths will have tile wainscot and floors. An automatic water heater will be installed. Hardwood floors, furnace heat and brick or tile mantels are specified. Elm panels will be used in the dining room. Exterior will be covered with cement plaster on metal lath. Plans are complete and the work will be done by Day Labor.

WATER SYSTEM IMPROVEMENTS Cost as follows. Oakland, Cal. Engineer, Engineering Department People's Water Co., Oakland. Owners, People's Water Co. Announcement has been made by officials of the People's Water Company of Oakland that the company will spend $2,000,000 in improvements during this year. Application to issue $9,120,000 in bonds and $8,006,000 in stocks has been filed with the Railroad Commission. From these funds the $2,000,000 will be taken.

SCHOOL ADDITION—1 story, frame and concrete, $10,000. Oakland, Cal. Architect, Julia Morgan, Merchants' Exchange Building, San Francisco. Owners, City of Oakland. Location, Lakeview School. Addition will be in the nature of a wing, and will contain two class rooms. Interior finish pine with maple floors. Heating system extended from present building. Exterior faced with cement plaster. Plans being prepared.

APARTMENT HOUSE—2 story and base, frame, $15,000. Oakland, Cal. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, 31st street. Will contain twelve apartments of three rooms and bath. Interiors will be finished in pine with some elm panels. Hardwood floors. Steam heat and a hot water system. Bath rooms tile. Wall beds. Exterior will be covered with rustic and cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, B. F. Butler and George Aylworth, 3233A 49th street, Oakland. Location, southeast corner Grant and Hearst streets. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received by the Oakland City Council up to and including February 24th for constructing an 18-inch iron stone pipe sewer in Prospect Drive, a 24-inch in Union street, seven brick manholes and other necessary work. Plans can be secured from the City Clerk.

SHIP BUILDING PLANT—$600,000. Alameda, Alameda Co., Cal. Engineer, J. D. Barnes, 175 Stewart street, S. F. Owners, J. D. Barnes & Co. J. D. Barnes

states that construction will be started within six weeks on the ship building plant to be erected on the Alameda water front. The estimated cost of the plant including equipment is $600,000. The principal construction item will be a dry dock and ways capable of handling vessels up to 4,000 tons. A marine railroad and several frame and corrugated iron shop buildings. Plans are being prepared by the owners, but they have not decided whether to do the work by Day Labor or to let a general contract.

FLATS—2 story and base, frame, $4,200. Berkeley, Alameda Co., Cal. Architects, Schirmer-Bugbee Co., Dalziel Bldg., Oakland. Owner, H. Suermondt. Location, Spruce street. Will contain two flats of five and six rooms. Sleeping porches. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $7,000. Oakland, Cal. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, Second avenue and East 14th St. Will contain four flats of four rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

LODGE HALL ALTERATIONS—$4,500. Oakland, Cal. Architect, none. Owners, Odd Fellows Hall Association. Work will consist of installing new lockers, painting, plastering and electric work. Plans complete and figures being taken.

Bids Received For University Work.

Regents Open Figures for Granite Work and for Heating, Ventilating and Electric Work at Berkeley.

Bids were opened by the Regents of the University of California at their meeting Monday, February 7th, for the heating and ventilating and for the electric work in the Benj. Ide Wheeler Hall and for the granite balustrade for the Sather Tower Espianada. Plans for this work were presented by Architect John Galen Howard.

The Turner Co. were low on the heating and ventilating work at $51,180, while Ne Page-McKinney Co. were low on the electric work at $6,089.

The California Granite Co. presented the low figure for the granite work at $22,250. Following is a complete list of the bids received:

Heating and Ventilating.

Mangrum & Otter	$58,000
Scott Co.	56,790
Turner Co.	51,180
J. C. Hurley	56,490
Robert Dalziel, Jr., Co.	58,237
Atlas Heating & Ventilating Co.	63,350
J. E. O'Mara	55,577
Pacific Fire Extinguisher Co.	58,340

Electric Work.

Ne Page-McKinney Co.	$ 6,089.00
Gen. Elect. Cons't. Co.	8,888.00
Butte Elect. & Eng. Co.	6,969.00
Rex Electric Co.	8,450.24
Turner Co.	8,980.00
H. S. Tittle	6,563.00
McFell Electric Co.	8,628.00
Pacific Fire Extinguisher Co.	8,633.00
Newberry Electric Co.	9,240.00
Globe Electric Co.	9,935.00
Central Electric Co.	11,350.00
Electrical Cons't. Co.	7,396.00

Granite Balustrade.

		Days
California Granite Co.	$22,250	90
Raymond Granite Co.	22,500	110
Pacific Granite Co.	23,800	125

SAN JOSE AND THE SANTA CLARA VALLEY

HIGHWAY IMPROVEMENT — Cost not stated. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors County Surveyor Cozzens' plans and specifications for the improvement of the portion of the Monterey-Salinas road from the Laurellos road junction to the Monterey city limits, were adopted and bids ordered advertised for. The bids for the same will be opened at 2 p. m. Tuesday, March 7th. Plans may be had from the County Clerk at Salinas.

STREET PAVING—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. The City Council at their last meeting discussed the paving of several streets in Salinas. No action was taken, and the matter was taken under advisement until the next meeting.

RESIDENCES—2, 3 story and base, frame, $10,000 each. Redwood City, San Mateo Co., Cal. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, Judge James A. Troutt. Location, near Redwood City. Each of the dwellings will contain ten rooms and three baths. Hardwood floors will be used throughout. There will be tile wainscot and floors in the baths. Mantels will be of brick and tile. Furnace heat and open fire places are specified. Interiors will be finished in pine, hardwood and white enamel. Automatic water heaters will be installed. Plans are being prepared and bids will soon be called for.

SEWERS—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. The City Council has passed a resolution of intention providing for the following work: That Palm street, northwesterly from the produced middle line of that portion of Seaside avenue that extends southerly from said Palm street, be sewered with 624.25 lineal feet of vitrified, salt-glazed, ironstone sewer pipe having an internal diameter of 6 inches; also that 25 Y branches, each having a 4-inch opening and 3 brick manholes with cast iron rings, covers and dust pans, be constructed. Said Y branches shall be constructed of first quality vitrified, salt-glazed, ironstone sewer pipe. Bids on this work will be called for shortly.

HIGHWAY CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. At the last meeting of the County Supervisors County Surveyor Neuman was instructed to prepare plans and specifications for the construction of the Hillsborough to Half Moon Bay road and the Pescadero to San Gregorio road. Bids will be called for on completion of the plans.

STREET IMPROVEMENT—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood. Owners, Redwood City. After hearing protests from property owners on South Main street, the Board of Town Trustees decided to change the plans and specifications for street work on the above thoroughfare so as to eliminate the corrugated iron culverts at the intersection of the cross streets. Only two culverts are to be included in the new specifications, one across Elm street and the other from Hancock across Main and up to Pine street. Bids for this work will probably be called at the next meeting.

STREET AND SEWER CONSTRUCTION—Cost not stated. Monterey, Monterey Co., Cal. Engineer, City Engineer, Monterey. Owners, City of Monterey. At the last meeting of the City Council the following action was taken relative to street improvements. The matter of improving Larkin street was laid over. Resolutions were adopted ordering the improvement of Main street between Madison and Jefferson streets and inviting proposals for the work. Bids will be opened at 7:30 p. m. March 7th. Plans and specifications for the improvement of Pearl street between Polk and Main streets were adopted, and a resolution of intention passed. Further information may be had from the City Clerk at Monterey.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SEA WALL CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., Cal. Engineers, Haviland & Tibbitts, Alaska Commercial Bldg., S. F. Owners, City of Richmond. Plans have been completed for additional harbor sea wall to be erected at the inner harbor. Bids will be called for shortly on about 2,750 feet. Construction will be of rock, steel and concrete.

STREET IMPROVEMENT—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. A resolution of intention has been passed by the City Council providing for the grading of streets in the Canal subdivision, the construction of sanitary sewers in said Canal subdivision and the construction of a sump and pumping station. Plans for this work, prepared by City Engineer Chapman, have been approved by the City Council. Bids will be called for shortly. Further mention will be made of this work.

WATER MAIN EXTENSION—$3,200. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the City Manager filed plans and specifications for the extension of the salt water cast iron pipe mains to run from 2nd street north to 3rd street, out 3rd street to E street, north on E street to 5th street and out 5th street to F street. A lateral will run from 3rd street down D street to Bay View street. The Clerk was instructed to advertise for bids. Plans and further information may be had from the City Clerk, San Rafael.

BRIDGES — 3, reinforced concrete. Cost as follows. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, City of San Rafael. The City Manager at the last meeting

of the Council submitted plans and specifications for building three concrete bridges: One at C street and Mahon Creek; one at Hayes and Minnie streets, and one on Watt avenue, back of the Hotel Rafael. They were adopted and the Clerk was instructed to advertise for bids for the three, the bids to be in March 6th. The estimated cost of the Hayes street bridge is $1,233, Watt avenue bridge $1,043 and C street bridge $550 Plans may be had from the City Clerk at San Rafael.

ROAD IMPROVEMENT — Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. Plans for widening and improving the road from Liberty's to the summit of the Bolinas ridge were presented by Supervisor Burke at the last meeting of the Supervisors. Action was laid over until the next meeting.

ROAD IMPROVEMENT — Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. The Board of County Supervisors at their last meeting ordered the Clerk to advertise for bids for improving the road from Willow Camp to the head of Bolinas Bay, bids to be opened at the meeting on March 7th. Plans may be had from the County Clerk.

COURT HOUSE ADDITION AND ALTERATION—Concrete and frame. Cost not stated. San Rafael, Marin Co., Cal. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Three propositions were submitted to the Board of Supervisors for improving the present court house. They will be presented to the Board at a special meeting to be held February 21st, and will then be taken under consideration and later on the Board will decide what plan to adopt. One plan is for an addition to be erected on each side of the present building, one story in height, to be extended out even with the present hall of records, and filling in vacant space between the two buildings. Another plan suggests a manner for remodeling the interior of the court house making it fireproof, and improving the arrangements, and a third plan suggests the erection of a wing on either side of the present building.

COURT HOUSE WIRING—Cost not stated. San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. All bids received for wiring the county court house have been rejected by the Board of Supervisors and new bids on the work will be taken until February 21st. The Supervisors at their last meeting awarded a contract for this work, but after further consideration all bids were rejected. G. W. Fox presented the lowest figure for the work at $640.22.

STORE AND OFFICES—2 story and base, brick, $14,000. Richmond, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, W. E. Cunningham. Will contain a large store on the ground floor and a number of modern offices above. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on February 26th.

STORES AND OFFICES—2 story, frame, $7,500. Martinez, Contra Costa Co., Cal. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owner's name withheld. Will contain stores on the first floor and offices above. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded.

RESIDENCES—15, 1 story, frame. Cost not stated. Avon, Contra Costa Co., Cal. Architect, none. Owners, Associated Oil Co. Contractors, Ward & Goodwin, 110 Jessie street, S. F. Contract price not stated.

RESIDENCE — 1 story and base, frame, $1,6000. Santa Rosa, Sonoma Co., Cal. Architect, none. Owner, A. Maloof. Contractor, C. D. Roberts, Santa Rosa. Contract price, $1,600.

AUDITORIUM—2 story, frame, $11,000. Avon, Contra Costa Co., Cal. Architect, none. Owners, Associated Oil Co. Contractors, Ward & Goodwin, 110 Jessie street, S. F. Contract price, $11,000.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

STREET IMPROVEMENT—Cost not stated. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. Fifteen more blocks of street paving are to be ordered shortly by the City Trustees in keeping with their decision to pave as many streets as the people may want. This will be new paving not heretofore mentioned, and not including the north Church street, Oak and East street paving which plans and specifications have already been called for. The new paving will be south of Locust street, South Garden street and a block on Willow street. More is to follow this, it is declared, including South Court and North Encina. The board at its last meeting was unable to pass upon the plans and specifications for the paving of North Church, Acequia, Oak and East streets by reason of the fact that the City Engineer has not been able to learn from the Santa Fe what type of switches were to be included in the plans and specifications. Further mention will be made of this work.

SEWERS—Cost not stated. Reedley, Fresno Co., Cal. Engineer, City Engineer, Reedley. Owners, City of Reedley. The City Trustees at their last meeting ordered the City Engineer to proceed with plans and specifications, as recommended by the State Board of Health, for the construction of sewers in this city. Bids will be called for on the approval of the plans. Further mention will be made of this work.

STREET PAVING—Cost not stated. Kingsburg, Fresno Co., Cal. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. The City Council has overruled the protests of property owners and has ordered the paving of Simpson street on the line of the State Highway. The Council will now pave the street for its full length with a strip of paving 21 feet wide. The residents wanted the road macadamized over its full width. Bids will probably be called for shortly.

SPILLWAY AND DRAINAGE SYSTEM—Cost not stated. Oakdale, Stanislaus Co., Cal. Engineer, Chief Engineer, Oakdale. Owners, Oakdale Irrigation District. Superintendent Burton Smith of the Oakdale Irrigation District has begun the surveys for the drainage system and spillway to be constructed by the district near Claus. The work will cost about $6,500. Plans for this work will be presented to the directors by Mr. Smith at their next meeting, when bids will be ordered called.

RESIDENCES—2, 1 story, frame. Cost not stated. Fresno, Fresno Co., Cal. Architect, none. The following Day Labor jobs are about to be started in Fresno. F. C. Wilson, 2705 Grant St., Fresno. Location, lot 17, block 21, Alta Vista Tract. Cost, $1,800. S. J. Dutcher, 526 5th street, Fresno, 2930 Illinois avenue.

CONCRETE PIPE—Cost as follows. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer, Modesto. Owners, Modesto Irrigation District. At the last meeting of the board of directors of the Modesto Irrigation District, bids were opened for laying 5,000 feet of 24-inch concrete pipe in the main drainage canal of the district in Wood Colony. The two lowest bids, Geo. A. Bos, Hearst Bldg., S. F., $4,452, and F. O. McIntire, 215 East Weber street, Stockton, $4,612, were retained for consideration until next week. The other bidders were Contra Costa Construction Co., 330 10th street, S. F., $7,800. Tieslau Bros., 110 Jessie street, S. F., $5,220; and W. S. Gause, Piedmont, Oakland, $6,690. Further mention will be made of this work when the contract is awarded.

STREET PAVING—Cost not stated. Lindsay, Tulare Co., Cal. Engineer, City Engineer, Lindsay. Owners, City of Lindsay. At the regular meeting of the City Trustees a resolution was passed ordering the paving of Hermosa street from Galo Hill avenue to the east city limits of the city. The pavement will consist of a three-inch bituminous base with a two-inch asphalt concrete wearing surface. The materials will be put down in two separate compressions. Sealed bids for the work will be opened February 23rd. Plans may be secured from the City Clerk at Lindsay.

SEPTIC TANK—Cost not stated. Madera, Madera Co., Cal. Engineer, W. H. Castner, Madera. Owners, City of Madera. At the City Trustees last meeting W. H. Castner, who was represented by H. N. Bundock, was given a commission to draw up the plans for a septic tank, after a personal investigation of the needs of the city, and to have them ready for the Board at their next meeting. Bids will be called for on the approval of the plans.

HIGHWAY CONSTRUCTION — Cost as follows. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. The County Highway Commission recommended that contracts be awarded as follows: Division 10, section 6, Bakersfield-Mojave road, Leigh G. Garnsey, 403 East 3rd street, Los Angeles, lowest bidder, $17,136.20. Division 7, section 2, Bakersfield-Taft road: W. E. Green, Tulare, Cal., lowest bidder, $50,891.64. Division 11, section 4, Caliente-Kernville road: A. M. & J. L. Hooper, lowest bidders, $3,368.70.

STREET PAVING—Cost not stated. Oakdale, Stanislaus Co., Cal. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. The City Trustees by unanimous vote ordered the City Attorney to prepare the resolution of in-

ntion to pave F street and instruct- the City Engineer to prepare the ecifications for the pavement. The rustees decided on an eighteen-foot vement, with a two and a half inch ncrete foundation and a top dressing Topeka an inch and a half thick. he resolution will call for the paving F street only from the eastern lim- s of the city to Bryan street. Bids on is work will be called for shortly.

Contracts Awarded.

NORMAL SCHOOL COMPLETION—lass A construction. Cost not stated. resno, Fresno Co., Cal. Architect, ate Architect George B. McDougall, acramento. Owners, State of Califor- a. Contractors, Greenback Plaster- g Co., 45 Kearny street, S. F., plas- ring. George Kay, Fresno, tile work. IRRIGATION OFFICE—1 story and ise, reinforced concrete, $8,581. Oak- ile, Stanislaus Co., Cal. Architects, one & Wright, 24 South California reet, Stockton. Owners, Oakdale Ir- gation District. Contractor, H. P. evick, Oakdale. Contract price, $8,- 84.

ACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

BRIDGE—Steel and reinforced con- rete. Cost not stated. Yuba City, utter Co., Cal. Engineer, County Sur- eyor, Yuba City. Owners, Sutter ounty. The County Supervisors are onsidering the erection of a bridge ver the Sacramento Rier at Grimes to ake the place of the Grimes Ferry. A etition asking for the construction of he bridge was presented to the Super- sors a few days ago. Further mention vill be made of this work when the uperisors take action.

BRIDGE—Timber construction. $2,- 00. Sacramento, Cal. Engineer, Coun- y Surveyor, Sacramento. Owners, Sac- amento County. Five bids for the onstruction of a bridge on Figueroa treet, in Folsom, were submitted to the Board of Supervisors. The bidders were enkins & Wells, 3520 Y street, Sacra- nento, $1,733; Ross Construction Co., Forum Bldg., Sacramento, $2,352; acobs & Sales, 110 Jessie street, S. F., 2,369; A McDonald, $2,282; McRea & Layoz, $2,134. The bids were submitted o the contract committee.

STREET PAVING—Cost not stated. Sacramento, Cal. Engineer, City Engi- neer, Sacramento. Owners, City of Sac- ramento. The City Commission has adopted specifications for the improve- ment of J street from 31st avenue to Yardley avenue. Specifications were also adopted for the improvement of 25th street from R to Y with curbs, gutters and sidewalks; also for the paving and improvement of 17th street from Q to R, and for Front street from Q to S. Specifications for this latter improvement provides for a bulkhead at R street where the street forms a levee. Bids on this work will be called for shortly.

SEWER WORK—Cost not stated. Stockton, San Joaquin Co., Cal. Engi- neer, City Engineer, Stockton. Owners, City of Stockton. The City Council at their last meeting decided that Leech & De Camp, 11 Montgomery street, S. F., contractors, will be forced to go ahead with their contract to construct sanitary sewers in this city or forfeit their certified check amounting to something over $1,000. A communica- tion from the San Francisco firm stat- ing that they could not proceed with the work without suffering a great loss due to the advance in price of terra cotta and asking that the contract be rescinded, was received by the Council which caused them to render the deci- sion. The work consists of the con- struction of sanitary sewers in Fair Oaks avenue, East street, and Oak and West streets.

SEWER CONSTRUCTION—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has approved plans and speci- fications for storm sewers in East Lafayette street, Fair Oaks avenue, Hazel avenue, Laurel, East, East An- derson, Taylor and Worth streets with branches on East Mormon avenue and Court alley, and bids have been or- dered received up to February 18th. Plans may be secured from the City Clerk at Stockton.

SEPTIC TANK AND SEWER SYS- TEM—Cost not stated. Auburn, Placer Co., Cal. Engineer, City Engineer, Au- burn. Owners, City of Auburn. The City Trustees have ordered plans and specifications received from engineers for the construction of a septic tank and sewer system. The closing date for receiving the plans has been set for February 21st. Further information may be had from the City Clerk at Auburn.

LAYING WATER MAINS—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Commissioner of Finance Gus Turner has asked City En- gineer Miller to render an estimate of the cost of laying the new water mains through the old China Basin to the City Commission. Further mention will be made of this work when a report is made.

RAILROAD CONSTRUCTION—$250,- 000. Fresno, Fresno Co., Cal. Engi- neer's name not stated. Owners, Fres- no Interurban Railroad Co. Articles of incorporation have been filed with the County Clerk by the Fresno Interurban Railway Co. The company is capital- ized at $250,000 and the directors an- nounce that work will be started short- ly on the construction of a railroad ten miles long running from Fresno to Clovis. Provision has also been made for future extensions. The stockhold- ers are John F. Rogers, Geo. H. Brad- ner and Paul E. Fratessa. The prin- cipal place of business is Fresno. Fur- ther mention will be made of this work.

RESIDENCE — 2 story and base, frame, $4,500. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, Hugh Tye, Jr. Location, Yosemite Terrace. Will contain eight rooms, two baths and sleeping porch. Interior fin- ish pine and elm panels with some white enamel. Hardwood floors, open fire places and furnace heat. Bath rooms tile. Mantels tile or brick. Au- tomatic water heater. Exterior cov- ered with rustic and cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $7,000. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, Mr. Reid, of Noble & Reid. Location, Magnolia and Yosemite streets. Will contain ten rooms, two baths and sleeping porch. A separate garage will be erected on the property. Inte- rior finish pine and hardwood with some white enamel. Hardwood floors. Bath rooms tile. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Exterior cov- ered with cement plaster. Clay tile roof. Plans being prepared.

NURSERY—1 story slat construction, $10,000. Eureka, Humboldt Co., Cal. Architect, J. D. Burke, Eureka. Own- ers, Cottage Gardens Nurseries Co., Eureka. The building will cover an area of 264 by 611 feet. Special heat- ing and water equipment will be in- stalled. Plans are being prepared.

COUNTRY CLUB—1 and 2 story, frame and plaster, $40,000, Sacramen- to, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Del Paso Country Club. Location, about 1½ miles out of Sacramento. Will contain large lounging rooms, banquet hall, li- brary, special rooms for ladies, smok- ing rooms, completely equipped kitchen and living quarters. Interior finish pine and redwood. Hardwood floors. Cen- tral heating system and open fire places. Exterior cement plaster. About $10,000 to be expended for furniture and fittings and about $25,000 in land- scape work and golf links. Plans be- ing prepared. Work to be in charge of William Murcell.

Contracts Awarded.

DAM—Reinforced concrete. $20,000. Amador, Amador Co., Cal. Engineer's name not given. Owners, Argonaut Mining Co. Contractors, Bent Bros., Central Bldg., L. A. Contract price, $20,000.

WATER WORKS ADDITION — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Am- brose & Teichert, Ochsner Bldg., Sacra- mento. Contract covers the addition to the city's plant at Front and I streets. Contract price not stated.

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGE—Steel and concrete, $15,- 000. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. At the last meeting of the County Supervisors eleven bids were submitted for the Nojoqui bridge, known officially as Station 248.56. The bids submitted are as follows: Robert Shearer, 650 Pacific Electric Bldg., L. A., $11,737. Boardman Construction Co., Story Bldg., L. A., $14,387; Mercereau Bridge and Construction Co., L. A., $15,- 470. E. A. Garland, $15,500; C. E. Cot- ton, S. F., $16,550; Munoz & Munoz, L. A., $16,945. Mesmer & Rice, L. A., $17,- geles, Cal. Architect, J. M. Cooper, 830 McGarry street, L. A. Owners, Van Vorst & Berman. Location, Santa Fe avenue and Chenery street, covering an area of 108 by 138 feet. Portion of building to be occupied by show rooms and offices and will be finished in hard- wood. Elevator service, steam heat, automatic sprinkler. Metal window sash and frames. Exterior faced with ruffled brick Plans being prepared.

GARAGE—5 story and base, rein- forced concrete, $100,000. Los Angeles, Cal. Architects, Morgan, Walls & Mor- gan, Van Nuys Bldg., L. A. Owner, H Newmark, leased to J. W. Leavitt & Co. Location, northeast 11th and Hope streets, covering an area of 100 by 150

000; Whitlock & Gorrill, Hearst Bldg., S. F., $17,800; Marin Rock Co., San Anselmo, $18,480; V. M. Price, S. F., $19,-100. All bids were taken under advisement.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Otto H. Neher, Garland Bldg., L. A. Owner, Otto H. Neher. Location, 3rd and Vermont streets. Will contain twelve rooms, three baths and sleeping porches. A two-story garage will also be erected on the property. Interior finish pine, white enamel and hardwood. Central heating system, hot water supply, vacuum cleaning and open fire places. Mantels tile or brick. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame. Cost not stated. Pasadena, Los Angeles Co., Cal. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, William A. Magie. Location, Oakland avenue. Will contain fourteen rooms, three baths and sleeping porches. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat and hot water system. Bath rooms tile. Exterior covered with cement plaster. Roof clay tile. Plans being figured.

BRIDGES—Steel and concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The Board of Supervisors rejected all bids received February 4th, and will readvertise for same for furnishing structural steel and cast iron for four bridges as follows: (1) Saticoy bridge, consisting of six steel spans each 129 feet 6 inches long; 358,000 pounds of steel. (2) Sespee bridge consisting of one (1) steel span 240 feet long; 200,-000 pounds of steel. (3) Casitas bridge consisting of one combination steel and timber span 200 feet long; 62,000 pounds of steel; 12,800 pounds of cast iron. (4) La Crosse bridge, consisting of one combination steel and timber span 150 feet long; 39,150 pounds of steel; 3,000 pounds cast iron. Approximate estimate of quantities in the four bridges is as follows: Structural steel, 660,350 pounds; bolts and washers, 3,000 pounds; cast iron, 15,800 pounds. The bids were as follows:

California Construction Co., New Call Bldg., S. F., (steel Saticoy bridge, 4 1-6c lb.; Sespee, 5¼c; Casitas, 5 3-10c; La Crosse, 5 3-10c.

Pacific Rolling Mill Co., 17th and Mississippi streets, S. F., Saticoy, 5¾c lb.; Sespe, 5 85-100c; Casitas, 6¼c; La Crosse, 6 65-100c.

Missouri Valley Bridge and Iron Co., Saticoy, 4 38-100c; Sespe, 4 35-100c; Casitas, 4 80-100c; La Crosse, 5 2-100c.

Pennsylvania Bridge Co.: Saticoy, 4 33-100c; Casitas, 4 70-100c; La Crosse, 4 75-100c.

Dyer Bros., Golden West Iron Works, 17th and Kansas streets, S. F.: Saticoy, 5½c; Sespe, 4¾c; Casitas, 6c; La Crosse, 6¼c.

Midland Bridge Co., Kansas City, Mo.: Saticoy, 4 40-100c; Sespe, 4 40-100c; Casitas, 4 95-100c; La Crosse, 4 95-100c.

Clinton Bridge Works, Crocker Bldg., S. F.: Saticoy, 4 29-100c; Sespe, 4 69-100c.

U. S. Steel Products Co., Rialto Bldg., S. F.: Saticoy, 4 56-100c; Sespe, 4 56-100c; Casitas, 5 46-100c; La Crosse, 6 1-100c

An early time limit for delivery is favored by the Board.

MARKET AND WAREHOUSES—6, 2 story and base, reinforced concrete, $6,500,000. Architect, John Parkinson, Security Bldg., L. A. Owners, Los Angeles Union Terminal Co. Location 7th and 8th streets. Will cover an area of 100 by 1250 feet. Construction will be of reinforced concrete and equipped with all modern appliances, elevators, conveyors, chutes, metal window sash etc. The two market buildings will be constructed at once as the first unit. Additional buildings will be erected as freight sheds for the Pacific Electric Co. Plans are being prepared.

FACTORY—3 story and base, brick and steel. Cost not stated. Los An-

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Chester B. Loomis, M. E.
CONSULTING ENGINEER
Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing
Reports.
419 Wilcox Building
Los Angeles, California

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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Oakland, Antioch & Eastern Railway
San Francisco Depot Key Route Ferry

FAST ELECTRIC TRAINS TO Sacramento
LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through trai to Chico, Marysville, Colus Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland Carries Parlor Observatio Car.
11:20A	Sacramento, Pittsburg, Ba Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Ba Point, Colusa, Chico, Woodlan
3:00P	Sacramento, Dixon, Pittsburg Bay Point, Elverta, Wood land.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixo Jct., Marysville, Colusa, Oro ville and Chico. Observatio Car.
5:15P	Pittsburg, Concord, Danville an Way Stations, except Sunday and Holidays.
8:00P	Sacramento, Pittsburg, Dixor Woodland and Way Station

OAKLAND, ANTIOCH & EASTERN RAILWA
Key Route Ferry. Phone Sutter 2339
Red Line Trans. Co., S. F.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years experience on all kinds of constructio work. A-1 references as to ability. Go anywhere. Phone or write CLE PAINE, Room 302 Carlton Hotel, 54 Turk Street.

et. Construction fireproof with reinreed walls, floors and roof slabs. Inrior finish pine and hardwood with e floors in sales rooms. Steam heat, evator service and vacuum cleaning. etal window sash and frames. Exteor faced with cement plaster. Plans ing prepared.

MOTION PICTURE STUDIO—1 and 2 ory, frame and steel, $200,000. Monvia, Los Angeles Co., Cal. Architect, O. Eager, 101 East Greystone avenie, Monrovia. Owners, Monrovia Feaire Film Co. Only part of the structures, estimated to cost $25,000, will erected at the present time. The nal expenditure will total $200,000. ncluded in the buildings will be a oving picture stage, 500 by 100 feet; lministration building, zoo, swimling pool, 75 by 200 feet, garages, a ike, and an indoor studio of glass and eel. Up-to-date equipment is planned or the different buildings.

BRIDGES—Steel and timber. Cost ot stated. Seeley, Imperial Co., Cal. ngineer, County Surveyor, El Centro. wners, Imperial County. A 300-foot oncrete and steel bridge will be built cross New River west of Seeley about 00 feet north of the present bridge, nd will constitute a portion of the ew State highway. A wooden structure will also be build across the New River channel several miles north of he State highway.

REPAIRS TO WATER SYSTEM — 235,000. San Diego, Cal. Engineer, Lockwood, San Diego. Owners, City of San Diego. In furnishing the city in estimate for putting the water system in shape the engineer includes the following items exclusive of rebuilding he Lower Otay dam: $100,000 for Dulzura conduit and its extension from Barrett to Houser's creek; $75,000 for he pipe line from Dulzura creek along he Jamul Mountains to Upper Otay; $30,000 for pipe line from reservoir to the outlet tower of Lower Otay; $2,000 repairs to the Bonita pipe line; $1,000 repairs to Otay-Chollas line, and pumps, etc., in Mission Valley.

WATER SYSTEM REPAIRS—$100,000. San Diego, Cal. Engineer, John F. Covert, San Diego. Owners, Sweetwater Co. The Sweetwater Co. will soon begin to repair its water system at an estimated cost of $100,000. The north end fill will be replaced with another spillway probably of larger capacity than the one on the south end, and fitted with hydraulic gates.

Contracts Awarded.

BRIDGE—Steel and concrete, $6,727. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractors, M. R. Dominguez and H. E. Walter, Santa Barbara. Contract price, $6,727 for Sheep Camp bridge. Mercereau Bridge Construction Co., L. A., Contract price, $9,500 for El Capitan bridge.

CULVERTS, ETC.—$31,699.63. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, C. H. Hudson, Trust and Savings Bldg., L. A. Contract price, $24,699.63.

PORTLAND AND OREGON

FORESTRY BUILDING—2 story and base, concrete and brick, $31,340. Corvallis, Ore. Architect, John V. Bennes, Chamber of Commerce Bldg., Portland. Owners, Oregon Agriculture College. J. H. Tillman, Portland, submitted the lowest figure for this work at $31,340 and will be awarded the work.

SEATTLE AND WASHINGTON

SEA WALL CONSTRUCTION—$79,887. Seattle, Wash. Engineer, City Engineer, Seattle. Owners, City of Seattle. Bids opened by the Board of Public Works for the construction of a sea wall along the eastern side of Railroad avenue between Washington and Marion streets, including the paving of that street, show the Jahn Contracting Co., Pioneer Bldg., Seattle, low at $79,887. They will probably be awarded the contract.

SCHOOL ADDITION—2 story and base, brick, $75,000. Seattle, Wash. Architect, Edgar Blair, 1126 Jackson street, Seattle. Owners, City of Seattle, Location, Mercer and Federal, covering an area of 42 by 200 feet. Will contain nine class rooms and a large auditorium. Stairways and corridors will be of reinforced concrete. Interior finish pine with maple floors. Steam heat, vacuum cleaning and program clocks. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

HOSPITAL—5 story and base, reinforced concrete, $250,000. Butte, Montana. Architects, C. Lewis Wilson, Montana Power Bldg., Butte, associated with Jesse M. Warren, Haight Bldg., Seattle, Wash. Owner, Dr. T. J. Murray. Will cover an area of 94 by 183 feet. The first floor will be occupied by a garage and stores, the upper floors being given over to the hospital. The main halls of the building are 24 by 136 feet of Raecolith and linoleum. The plans provide for 136 hospital rooms and several offices, operating rooms and lavatories. The building will have a brick and terra cotta facing, two elevators, hollow tile partitions. Bids are being taken by the architects at Butte.

NEW TRANSPORTATION FACILITIES IN COLOMBIA.

Branch Railways to be Constructed.

Five new branch lines of the Colombian Pacific Railway (Ferrocarril del Pacifico) are to be constructed, according to a law in a recent number of the Diario Official, with a view to facilitating communication with the fertile interior of Colombia, and to completing railway connections from the coast to the smaller cities in the cordilleras. Surveys are to be made for branch railways to cover the territory as follows. (a) A line from Popayan to Carchi in Ecuador, passing through the city of Pasto; (b) a line from Cartago in the Department del Valle to the terminal of the Amaga Railway, or to some point on this line which would connect the Pacific coast lines with those of Antioquia; (c) a line to connect the city of Pasto with the lower part of the River Patia or with the Pacific Coast; (d) a line to connect the Popayan branch with the Alto Putumayo or with one of its navigable tributaries, starting from Pasto; (e) a line from Cartago to Quibdo, passing through Isthmina.

In addition to having extensive surveys made, the Government will order estimates of the cost of construction, administration, and maintenance of the new lines, the present traffic in the regions covered, the probable traffic with improved transportation, and the minimum rates to be charged, data will be collected on the topography of the new territory, the nature of its soil, the character of its products, and other facts of value in estimating the importance of each line. The surveys and estimates will be in charge of two or more technical commissioners, each composed of five engineers and one qualified army officer, appointed by the Government. A term of four years is fixed for the completion of all the railways.

Completion of Other Short Lines.

Certain branch railways authorized under previous laws have not yet been completed, and provision for their completion is now made. These branches are to run form Palmira to the city of Santander, from Bogota to Buenaventura, from Chicoral to Ibague, and from the valley of Cauca to the Cordillera Central. The Government is authorized to complete these lines either by direct contract or through responsible contracting companies.

Canal to be Dredged.

Funds have been designated for dredging the canal which connects the river Magdalena with the port of Cartagena. Estimates of the work to be done will be made by a competent engineer and the dredging will be carried on under the direction of a board of officials in the city of Cartagena. It is expected that the improvements to be made in the canal will greatly facilitate transportation by this route.

ELECTRIC LIGHTS FOR PUERTO COLOMBIA.

[Consul Isaac A. Manning, Barranquilla, Colombia, Dec. 22.]

The Colombian Congress has appropriated $5,000 for the purpose of establishing an electric-light station at Puerto Colombia to supply that village and the railway and steamship pier with electric lights. In consideration of this sum the authorities of Puerto Colombia will be required to supply lights free for 10 years to the coast guard, post office, and telegraph offices, and one searchlight of 2,000 candlepower or two of 1,000 candlepower for use by the coast guard in lighting the bay for police purposes. The surveys and plans are under way, and the construction of the plant will likely soon be commenced. American machinery and equipment are to be installed.

STATE CORPORATION DEPARTMENT

SACRAMENTO, Cal.—The report of the State Corporation Department is as follows:

H. W. Johns-Manville Company of California is permitted to issue its 95 shares to its parent company, the H. W. Johns-Manville Company, a New York corporation.

Pacific Machine Works, Oakland, is permitted to sell 397 shares at par, for cash, to its incorporators.

Russian River Gravel Co. is permitted to issue 1000 shares to J. D. Grant in exchange for real property, machinery and equipment.

Metropolitan Realty Co., San Francisco, is permitted to sell 350 shares to Geo. S. Lourie at par, for cash.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
394	Eisenbach	Eisenbach	5000
395	Heine	Lee	5500
396	Heine	Lee	5500
397	Frank	W'n Hardwood	500
398	Gallagher	Gallagher	1000
399	Rushton	Rushton	4000
400	Needham	Needham	3600
401	Stein	Grant	1250
402	Ginley	Ginley	3000
403	Ginley	Ginley	3000
404	Ginley	Ginley	3000
405	Peters	Peters	4000
406	Peters	Peters	4000
407	Worden	Mullen	800
408	Phipps	Grahn	400
409	Nolan	Nolan	2950
410	Fitz-Patrick	Hofmeister	3025
411	City & Co of S F.	Zelinsky	32000
412	Same	Rex	742
413	Same	Ickelheimer	615
414	Same	Walsh	5593
415	Cath. Archb.	Cath Archb	17000
416	Stoff	Stoff	20000
417	Titus	Titus	1750
418	Conserv Bldg	Owner	4475
419	Costa	Costa	1600
420	Keenan	Keenan	10000
421	City Invst	McLeran	——
422	Schulz	Brueck	3500
423	Metro Invst	Owner	500
424	Hale	MacDonald	900
425	Delucchi	Montani	6500
426	McDevitt	Smith	800
427	Smith	Smith	2000
428	O'Donnell	Hansbrough	12000
429	Smith	McKee	2200
430	Nissum	Petersen	12000
431	Kraul	Ross	1400
432	O'Hara	Welsh	5000
433	O'Brien	Zelinsky	1750
434	Dulip	Witzelberger	——
435	Bernhard	Martin	8000
436	Pacific G & E Co.	Tozer	3250

ALTERATIONS
(394) NO. 247 DIVISADERO. Alter 1st floor of present two-story frame flats into stores.
Owner.....Eisenbach Co., 408 Flatiron Bldg., San Francisco.
Architect...Falch & Knoll, Hearst Bldg., San Francisco.
Day's work. COST, $5000

FRAME DWELLING
(395) W EIGHTEENTH AVE 175 S Geary. Two-story and basement frame dwelling.
Owner.....F. Heine, 1180 Stanyan, San Francisco.
Architect...None.
Contractor..Louis H. Lee, 135 Carl, San Francisco.
COST, $5500

FRAME DWELLING
(396) W EIGHTEENTH AVE 200 S Geary. Two-story and basement frame dwelling.
Owner.....F. Heine, 1180 Stanyan, San Francisco.
Architect...None.
Contractor..Louis H. Lee, 135 Carl, San Francisco.
COST, $5500

SHOW WINDOWS
(397) NO. 104 POWELL. Install show windows.
Owner.....Chas. Frank, Premises.
Architect...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., San Francisco.
COST, $500

FRAME DWELLING
(398) E TWENTY-FIRST AVE 150 S Anza. One-story and basement frame dwelling.
Owner.....Geo. Gallagher, 16 Elgin Park, San Francisco.
Architect...None.
Day's work. COST, $1000

FRAME FLATS
(399) W NINTH AVE 550 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....C. A. Rushton, 751 9th Ave., San Francisco.
Architect...None.
Day's work. COST, $4000

FRAME FLATS
(400) S WASHINGTON 110 W Powell. Two-story and basement frame (2) flats.
Owner.....Mrs. Josephine Needham, 480 8th Ave., S. F.
Architect...None.
Contractor..B. Needham, 480 8th Ave., San Francisco.
COST, $3600

ALTERATIONS
(401) SW CHESTNUT AND SCOTT, 25 on W Scott and 100 on Chestnut. All work of alteration and addition to store building into flat.
Owner.....E. Stern, 3261 Scott, S. F.
Architect....None.
Contractor..W. E. Grant 1032 Irving, San Francisco.
Filed Feb. 7, '16. Dated Feb. —, '16. Progressive payments as work progresses.
TOTAL COST, $1250
Bond, Sureties, Forfeit, none. Limit, 65 days. Plans and specifications filed.
Note: First report Feb. 4, No. 370.

DWELLING
(402) E TWENTIETH AVE 75 S California. Two-story and basement frame dwelling.
Owner.....E. Ginley, 131 5th avenue, San Francisco.
Architect....None.
Day's work. COST, $3000

DWELLING
(403) E TWENTIETH AVE, 50 S California. Two-story and basement frame dwelling.
Owner.....E. Ginley, 131 5th avenue, San Francisco.
Architect....None.
Day's work. COST, $3000

DWELLING
(404 E TWENTIETH AVE. 25 S California. Two-story and basement frame dwelling.
Owner.....E. Ginley, 131 5th avenue, San Francisco.
Architect....None.
Day's work. COST, $3000

DWELLING
(405) W FOURTEENTH AVE, 175 N California. Two-story and basement frame dwelling.
Owner.....J. M. Peters, 1010 Balboa, San Francisco.
Architect....None.
Day's work. COST, $4000

DWELLING
(406) W FOURTEENTH AVE, 150 S California. Two-story and basement frame dwelling.
Owner.....J. M. Peters, 1010 Balboa San Francisco.
Architect....None.
Day's work. COST, $4000

ALTERATIONS
(407) NO 312 STOCKTON. Alterations for store.
Owner.....Willard E. Worden, 1141 Turk, San Francisco.
Architect....None.
Contractor..Mullen Mfg. Co., 64 Rausch street, S. F.
COST, $800

REPAIRS
(408) W BANKS, 175 N Tompkins. Tear down and rebuild dwelling.
Owner.....G. Phipps, Anderson and Jarboe, S. F.
Architect....None.
Contractor..Wm. H. Grahn, 2840 Bryant, S. F.
COST, $400

DWELLING
(409) W FIFTEENTH AVE, 175 S Anza. Two-story and basement frame dwelling.
Owner.....Jos. Nolan, 1415 Hyde, San Francisco.
Architect....None.
Contractor..Wm. P. Nolan, 1682 Ellis, San Francisco.
COST, $2950

ALTERATIONS
(410) W GUERRERO 65 N 17th, 25x85. All work except wall beds, gas heaters, gas and vent pipes and electric fixtures, window shades, tinting rooms and instantaneous water heater for alterations to building.
Owner.....Jas. and Lillian Fitz-Patrick, 486 Guerrero, S. F.
Architect....None.
Contractor..Hofmeister & Berdahl, 629 Cole, S. F.
Filed Feb. 8, '16. Dated Feb. 4, '16. Light wells framed up and all changes in rough work 350
Brown coated 600
Standing finish on 550
Accepted 762
Completed and accepted 763
TOTAL COST, $3025
Bond, $1525. Sureties, M. Bertolino, Joe A. Johnson. Forfeit, $5. Limit, 90 days. Plans and specifications filed.
Note: First report Feb. 5, No. 378.

ENGINE HOUSE
(411) N HOWARD — E Third. General construction Engine House No. 4.
Owner.....City and County of San Francisco.
Architect...Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..M. G. Zelinsky.
COST, $32,000

(412) ELECTRIC WIRING ON ABOVE
Contractor..Rex Elec. Co., 1174 Sutter, San Francisco.
COST, $742

(413) LIGHTING FIXTURES ON above.
Contractor..Ickelheimer Bros. Co., 441 Sutter, San Francisco.
COST, $615

FOUNDATION
(414) ALMS HOUSE ROAD & DEWEY Blvd. Foundation for power plant for Relief Home.
Owner.....City & County of San Francisco.
Architect...Bureau of Architecture.
Contractor..P. F. Walsh.
COST, $5593

BRICK CONVENT
(415) NW CHURCH AND TWENTY-ninth. Three-story and basement brick convent.
Owner.....Roman Catholic Archbishop, 1100 Franklan, S. F. Rev. M. D. Connolly, 221 Valley, Pastor.
Architect...Shea & Lofquist, 742 Market, San Francisco.
Day's work. COST, $17,000

FRAME APARTMENTS
(416) W TAYLOR 40 N Sacramento. Three-story and basement frame (12) apartments.
Owner.....Louis D. Stoff, 307 Bush, San Francisco.
Architect...Albert Schroepfer, 68 Post, San Francisco.
Day's work. COST, $20,000

FRAME DWELLING
(417) S OCEAN 30-5 W Cayuga. One and one-half-story and basement frame dwelling.
Owner.....Watson A. Titus, 302 Brazil San Francisco.
Architect...None.
Day's work. COST, $1750

FRAME RESIDENCE
(418) S ALTON 250 E 9th Ave., Forest Hill. Two-story and basement frame residence.
Owner.....Conservative Bldg. & Investment Co., 200 Phelan Bldg., San Francisco.
Architect...None.
Day's work. COST, $4475

FRAME DWELLING
(419) W BOCANA 200 S Courtland. One-story and basement frame dwlg.
Owner.....M. Costa, 2821 16th, S. F.
Architect...None.
Day's work. COST, $1600

FRAME APARTMENTS
(420) NW GROVE AND MASONIC Ave. Three-story and basement frame (5) apartments.
Owner.....W. J. Keenan, Fulton and Masonic Ave., S. F.
Architect...None.
Day's work. COST, $10,000

ALTERATIONS
(421) SE MARKET 75 SW Third SW 50xSE 100. Alterations to Claus Spreckels Annex Building.
Owner.....City Investment Co., 1st National Bank Bldg., S. F.
Architect...J. R. Miller, Lick Bldg., San Francisco.
Contractor..McLeran & Peterson, Sharon Bldg., S. F.
Filed Feb. 9, '16. Dated Feb. 7, '16.
As work progresses..... 75%
Usual 35 days..... 25%
CONTRACTOR to receive cost together with 10% additional.
Bond, $10,000. Surety, Guardian Casualty & Guaranty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME APARTMENTS
(422) W MISSION 190-9 N 25th N 25 xW 117-6. Complete all unfinished grading, concrete, carpenter, mill, lath, plaster, glazing, finish hardware, shades, fixtures, wall beds, tinning, galvanized iron, glass, glazing, tile work, ornamental iron, etc., for three-story frame apartments.
Owner.....Annie M. Schulz, Guerrero near Army, San Francisco.
Architect...Jno. J. Foley, 46 Kearny, San Francisco.
Contractor..Michael Brueck, 600 Charter Oak, S. F.
Filed Feb. 9, '16. Dated Feb. 8, '16.
Completed and accepted.....$2625
Usual 35 days..... 875
TOTAL COST, $3500
Bond, $1750. Surety, Fidelity & Deposit Co. of Maryland. Limit, 30 days. Forfeit, none. Plans and specifications filed.
NOTE:—The above contract with Ratto & Ratto, filed August 25, 1915, was abandoned.

REPAIRS
(423) W WEBSTER 25 S Fulton. General alterations and repairs for dwlg.
Owner.....Metropolis Invst. Co., 333 Kearny, San Francisco.
Architect...None.
Day's work. COST, $500

STAIRWAY
(424) SW MARKET AND FIFTH. Install stairway.
Owner.....Hale Bros., Premises.
Architect...Reid Bros., California-Pacific Bldg., S. F.
Contractor..MacDonald & Kahn, 905 Rialto Bldg., S. F.
COST, $900

FRAME FLATS
(425) E LEAVENWORTH 72 S Union. Three-story and basement frame (3) flats.
Owner.....Louis Delucchi, 575 Union, San Francisco.
Architect...J. A. Porporato, 619 Washington, San Francisco.
Contractor..Montani & Stefanini, 1753 Greenwich, San Francisco.
COST, $6500

ALTERATIONS
(426) NOS. 120-122 ALPINE. Minor alterations for flats.
Owner.....Peter McDevitt, 249 Chenery, San Francisco.
Architect...None.
Contractor..Smith Bros., 35 Delano Ave., San Francisco.
COST, $800

FRAME RESIDENCE
(427) W NAPLES 100 S Ralph. Two-story and basement frame residence.
Owner.....W. G. Smith, 3354 21st, San Francisco.
Architect...O. E. Evans & Co., 2589 Mission, San Francisco.
Day's work. COST, $2000

BRICK GARAGE
(428) E VALENCIA 135 S 18th. One-story and basement brick garage.
Owner.....Edwin O'Donnell, 224 Monadnock Bldg., S. F.
Architect...Wm. Beasley, 127 Montgomery, San Francisco.
Contractor..Hansbrough-Johnston Co., 224 Monadnock Bldg., S. F.
COST, $12,000

FRAME STORE
(429) E FORTY-NINTH AVE 75 S Balboa. One-story frame store.
Owner.....Wm. Smith, Cr. Contractor.
Architect...None.
Contractor..Wm. A. McKee, Valencia and 24th, San Francisco.
COST, $2300

FRAME APARTMENTS
(430) NW SEVENTH AVE & IRVING. Three-story and basement frame (4) apartments and stores.
Owner.....Jens P. Nissum, 1059 Phelan Bldg., San Francisco.
Architect...Edw. E. Young, 251 Kearny, San Francisco.
Contractor..H. Petersen.
COST, $12,000

FRAME DWELLING
(431) NO. 410 DOLORES (rear). One-story and basement frame dwelling.
Owner.....F. O. Kraul, Premises.
Architect...None.
Contractor..Ross & Burns, 2281 Green, San Francisco.
COST, $1400

FRAME BUILDING
(432) NE GEARY AND NINTH AVE E 32-6xN 100. All work for two-story frame building.
Owner.....D. J. O'Hara.
Architect...None.
Contractor..Jas. Welsh.
Filed Feb. 10, '16. Dated Feb. 8, '16.
Rafters in place.....$1250
Brown coated 1250
Completed and accepted..... 1250
Usual 35 days..... 1250
TOTAL COST, $5000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications, none.

PAINTING, ETC.
(433) S BUSH 187-6 W Mason W 42x S 137-6. Painting, graining, varnishing, etc., for four-story and basement Class "C" building.
Owner.....O'Brien Bros., Inc., 240 Montgomery, S. F.
Architect...O'Brien Bros., Inc., 240 Montgomery, S. F.
Contractor..D. Zelinsky & Sons, 564 Eddy, San Francisco.
Filed Feb. 10, '16. Dated Jan. 18, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1750
Bond, none. Limit, 12 days after completion of carpenter work. Forfeit, none. Specifications only filed.

COMPLETION OF BUILDING
(434) E ASHBURY 100 N Grove N 25 ——. All work for completion of

building partially destroyed by wind storm.
Owner.....Emile A. Dulip.
Architect ...None.
Contractor..Jacob Witzelsberger, 176 Rousseau, San Francisco.
Filed Feb. 10, '16. Dated Feb. 9, '16.
$600 to be paid when restored building has frame up and roof boards on .....
Other three payments as in original contract dated and filed Nov. 17, 1915 .....
COST, $6550 of which $1637.50 has been paid and $600 additional.
Bond, $3575. Surety, Massachusetts Bonding & Insurance Co. Limit, 160 days from Nov. 17, 1915. Forfeit, none. Specifications filed (modified).

FRAME RESIDENCE
(435) N FILBERT 134-6 W Divisadero W 50xN 137-6. Carpenter, mill, plastering, glazing, sheet metal and iron work, brick, marble and tile work, roofing, etc., for two-story and basement frame residence.
Owner.....Mina B. Bernhard.
Architect ...Frederick D. Boese, 74 Montgomery, S. F.
Contractor..William Martin, 110 Jessie San Francisco.
Filed Feb. 10, '16. Dated Feb. 10, '16.
Roof rafters on.....$2000
Brown coated 2000
Completed and accepted..... 2000
Usual 35 days..... 2000
TOTAL COST, $8000
Bond, none. Limit, 100 days after notification. Forfeit, $3. Plans and specifications filed.

PAINTING
(436) S SUTTER 115-9 E Powell S 137-6xE 45-6. Painting for eight-story Class "A" office building.
Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect ...Edgar A. Mathews, 251 Kearny, San Francisco.
Contractor..Tozer Co., 228 Grant Ave., San Francisco.
Filed Feb. 10, '16. Dated Feb. 9, '16.
When painting above 6th floor completed $635
When painting above 3rd floor completed 900
Completed and accepted..... 900
Usual 35 days..... 815
TOTAL COST, $3250
Bond, $625. Surety, Massachusetts Bonding & Insurance Co. Limit, with reasonable diligence. Plans and specifications filed.

LEASE.

Feb. 8, 1916—W LARKIN 32-6 N Green, N 78xW 70. Helen E. and Isabella M. Cowell to W. C. Mahoney, 10 years, $37,800.
Feb.7, 1916—NO. 630 IRVING. Jas. P. Nissum to A. J. Hamilton, three years, $60 per month with option to renew.
Feb. 5, 1916—NO. 3216 MISSION NW line bet. Valencia and 29th. Dudley Cross to Alfonso Giomi and Egisto Giusti. 5 years. $40 per month.

INCORPORATIONS.

Thos. H. Price Co.; capital stock, $10,000; subscribed, $30, shares at $10 each. Directors—T. H. Price, J. T. Lafferty, G. J. Steiger, Jr., 1 share each. Place of business, San Francisco.
Republic Social Club. No capital stock. Directors—Chio Pork, Wong Bow Clun, T. C. Wong. Place of business, San Francisco.
Wah Fat Social Club. No capital stock. Directors—Wong Hip Sun, Chin Quw, Ong Ting Dong. Place of business, San Francisco.

NOTICE OF NON-RESPONSIBILITY.

Feb. 8, 1916—LOT 23, BLK 10, St. Francis wood. Westgate Park Co. as to improvements on leased property.
Feb. 7, 1916—SW VIRGINIA AVE 123-6 SE Mission, SE 20xSW 60, lot 38, Godeus Gift Map Sub lots 374 to 377, P. V. Augustus S. Lillie as to improvements on leased property.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Feb. 2, 1916—W NINETEENTH AVE 375 N Cala. Edna A Root to Schroder Bros.....Jan. 28, 1916
Feb. 3, 1916—N ARMY 100-1 W Bryant W 25-0¼ N 93-6½ E 25 S 94-7. Harold F Everett to Philip W Montrouil .....Jan. 27, 1916
Feb. 3, 1916—N CALIFORNIA 75 W 17th Ave 25x100. Lloyd B Ham to whom it may concern...Feb. 3, 1916
Feb. 3, 1916—E LISBON 225 N Excelsior Ave. Ward C Brown to whom it may concern....Feb. 2, 1916
Feb. 3, 1916—S TWENTY-FOURTH 45 E Hampshire E 30xS 93. James J Conway to Mager Bros..Feb. 3, 1916
Feb. 4, 1916—W 25 FEET LOT 15 E 12 feet 6 in. Lot 16 Blk 2818, Forest Hill Court. Conservative Bldg & Investment Co and Wm H Kiler to whom it may concern...Feb. 3, 1916
Feb. 5, 1916—N HILL 75 E Castro E 30xN 76. Katie C Lasky to whom it may concern.....Feb. 3, 1916
Feb. 7, 1916—NO. 1001 CALIFORNIA. S. W. Morshead to W. G. West Co. .....Jan. 26, 1916
Feb. 7, 1916—SW CALIFORNIA and Mason, W 77-6xS 60. S. W. Morshead to Scott Co .....Jan. 28, 1916
Feb. 8, 1916—SW SAN BRUNO AVE, 125 NW Mansell, NW 25xSW 120. Blk 17 Paul Tract. John Pawlowski to whom it may concern..... .....Feb. 1, 1916
Feb. 8, 1916—N NINETEENTH 25 W Lamson Lane. Chas. E. Reinhart to Daniel R. Wagner & Co..... .....Feb. 7, 1916
Feb. 8, 1916—SE NINETEENTH and Noe, S 57xE 53. M. J. Risso and G. Obertelli to G. Cavaglieri..... .....Feb. 8, 1916
Feb. 8, 1916—S BUSH 192-6 W Polk, 32-6x120. J. R. Reite and E. V. Lacey to whom it may concern... .....Feb. 1, 1916
Feb. 9, 1916—S SHAFTER AVE 150 W Jennings W 25xS 100. George Ryan to whom it may concern..... .....Feb. 9, 1916

LIENS FILED

San Francisco

Feb. 5, 1916—W TENTH AVE 244-3 N Cabrillo N 25xW 120. Paul Suhnel vs Patrick J and Mary Halligan, H E and T W MacArthur and MacArthur Bros.....$239.85
Feb. 5, 1916—S PINE 68-9 E Sansome, (No. 247 Pine) 34-4 on Pine. Frank Lobb vs Postal Realty Co and M Thornburg $1149
Feb. 5, 1916—N PARNASSUS AVE 75-5 W Willard W 25xN 94-4½. L B Hooker, $97.60; J S Guerin & Co, $275 vs Mary K Carson and O E Evans & Co.....
Feb. 7, 1916—E TWELFTH AVE, 75 S Balboa, S 25xE 95. Palace Hardware Co. vs. Nellie R. Eggers..$87.45
Feb. 7, 1916—S PINE between Battery and Sansome, 68-9 E of Sansome, No. 247 Pine, 34-4 frontage. Frank Lobb vs. Postal Realty Co. $469
Feb. 7, 1916—S PINE 68-9 E Sansome. Chas. King vs. Postal Realty Co. $443.43
Feb. 8, 1916—E TWELFTH AVE, 75 S Balboa, S 25xE 95. Atlas Heating and Ventilating Co. vs. R. McLelland and Nellie R. Eggers...$142
Feb. 9, 1916—S PINE 68-9 E Sansome S 96xE 34-4½. Pacific Manufacturing Co vs Postal Realty Co $75.28
Feb. 10, 1916—SE CLEMENT AND 24th Ave S 100xE 30. Fred Jones vs Anna R Wissmann.....$6915
Feb. 10, 1916—S SIXTEENTH 179-8 W Guerrero S 110xW 25. Atlas Mortar Co vs Edwd Perry, Marg't Perry, Greenback Plastering Co, Samuel Greenback & L R Holm.$55.90
Feb. 10, 1916—S PINE 68-9 E Sansome S 34-4x100; No. 247 Pine. Malott & Peterson vs Postal Realty Co and M Thornburg.....$145

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 5, 1916— NW WASHINGTON & Webster N 29-4½xW 27-6. A Seghieri & Bro, F G Norman & Sons to John H Schroder and L C Woodbridge .....
Feb. 8, 1916—W TENTH AVE, 244-3 N Cabrillo, N 25xW 120. Paul Suhnel to H. E. & T. W. MacArthur and McArthur Bros., Patrick J. and Mary Halligan.....
Feb. 8, 1916—S FILBERT 154 W Webster, W 24xS 137-6. Clancy & Sons to George Arata and J. H. Sampel .....
Feb. 9, 1916—SE TWENTY-THIRD and Castro S 26-6xE 105. A E Klein to W D and Mary Sullivan..
Feb. 9, 1916—E SEVENTEENTH AVE 57-4½ S Rivera S 25xE 100. A Seghieri & Bro to Bessie G and E R Hayden.....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
190	St. Mary	St. Mary	1200
191	Same	Same	1200
192	La Duca	Sommarstrom	2500
193	Salvatore	Sommarstrom	2500
194	Petersen	Laursen	1963
195	Moss	Kulchar	1000
196	Merritt	Knight	2750
197	Lehfeldt	Reagh	4000
198	Lehfeldt	Reagh	4000
199	Young	Young	400
200	Lehfeldt	Reagh	5000
201	Thomas	Mutual	2000
206	Isakson	Isakson	1600
207	Waterbury	Wallace	500
208	S. P. Co	S. P. Co	400
209	Johnson	Jones	1000
210	Stubbe	Stubbe	4000
211	Larsen	Larsen	2000
212	Stebbins	Coward	2650
213	Anderson	Bridgman	3150
221	Malley	Malley	2500
222	Athenian	Duval	750
223	Morse	Smith	2300
224	Rapozo	Rapozo	400

225	Larkey	Jackson	100
226	McPike	Sneed	150
227	Garretson	Garretson	3200
230	Clifford	Clifford	1500
232	Woodward	McPhee	500
233	Werum	Brown	2000
235	Kerrigan	Wise	2250
236	Morse	Stolte	2250

DWELLING
(190) E NINETY-THIRD AVE 75 N "A," Oakland. Five-room dwelling.
Owner.....Joe St. Mary, 9257 E-14th, Oakland.
Architect ...None.
Day's work. COST, $1200

DWELLING
(191) E NINETY-THIRD AVE 110 N "A," Oakland. Five-room dwelling.
Owner.....Joe St. Mary, 9257 E-14th, Oakland.
Architect ...None.
Day's work. COST, $1200

DWELLING
(192) N THIRTY-NINTH 591 E Adeline, Oakland. Five-room dwelling.
Owner.....J. La Duca.
Architect ...None.
Contractor..Axel Sommarstrom, 109 Sunnyside Ave., Oakland.
COST, $2500

DWELLING
(193) N THIRTY-NINTH 559 E Adeline, Oakland. One-story 5-room dwelling.
Owner.....Salvatore Imburgia, 524 23rd street, Oakland.
Architect ...None.
Contractor..Axel Sommarstrom, 109 Sunnyside Ave., Oakland
COST, $2500

DWELLING
(194) E THIRTY-EVENTH AVE 712½ N E-14th, Oakland. One-story six-room dwelling.
Owner.....August Petersen.
Architect ...None.
Contractor..Carl Laursen, 5545 Lawton Ave., Oakland.
COT, $1965

BRICK BUILDING
(195) NO. 1321 WASHINGTON, Oakland. One-story brick building.
Owner.....Moss Glove House, 469 13th, Oakland.
Architect ...None.
Contractor... Kulchar Co., E-10th and 8th Ave., Oakland.
COST, $1000

DWELLING AND GARAGE
(196) W ROSEDALE AVE 375 S Santa Rita, Oakland. Workmanship and materials, liability and fire insurance for seven-room cement plastered dwelling, garage, fence, etc.
Owner.....John W. Merritt, 1247 High Oakland.
Architect ...Chester H. Miller, Dalziel Bldg., Oakland.
Contractor..Harry C. Knight, 3857 Market, Oakland.
Filed Feb. 5, '16. Dated Feb. 4, '16.
Walls ready for 2nd story joists..$250
1st floor laid..... 500
2nd floor laid..... 500
Roof shingled..... 500
Door frames set..... 500
Usual 35 days..... 500
TOTAL COST, $2750
Bond, none. Limit, 65 days. Forfeit, none. Plans and specifications filed.

DWELLING
(197) N McADAM, 300 E Golden Gate Ave. Two-story eight-room dwlg.
Owner.....E. G. Lehfeldt.
Architect....Thomas & Oliver, Pantages Bldg., Oakland.
Contractor..E. M. Reagh.
COST, $4000

DWELLING
(198) S HILL ROAD, 300 E Golden Gate Ave., Oakland. Two-story frame dwelling.
Owner.....E. G. Lehfeldt.
Architect....Thomas & Oliver, Pantages Bldg., Oakland.
Contractor..E. M. Reagh.
COST, $4000

ADDITION
(199) NOS. 6519-6521 TELEGRAPH Ave., Oakland. Addition.
Owner.....John Young.
Architect....None.
Day's work. COST, $400

DWELLING
(200) N McADAM, 300 W Golden Gate Ave., Oakland. Two-story frame dwelling.
Owner.....E. G. Lehfeldt.
Architect....Thomas & Oliver, Pantages Bldg., Oakland.
Contractor..E. M. Reagh.
COST, $5000

BUNGALOW
(201) NE LAVERNE AVE, 282.70 NW 55th Ave., NW 35xNE 109, Oakland. All work for one-story bungalow.
Owner.....John I and Alfreda Thomas, Oakland.
Architect....None.
Contractor..Mutual Realty Co., 1437 Broadway, Oakland.
Filed Feb. 7, '16. Dated Aug. 31, '15.
TOTAL COST, $2000
Bond, Sureties, Forfeit, Limit, none. Plans and specifications filed.

DWELLING
(206) W THIRTY-EIGHTH AVE, 280 N Hopkins, Oakland. One-story five-room dwelling.
Owner.....S. A. Isakson, 1464 55th avenue, Oakland.
Architect....None.
Day's work. COST, $1600

ALTERATIONS
(207) NO. 5578 TAFT AVE, Oakland. Alterations.
Owner.....Mrs. Flora Waterbury, Premises.
Architect....None.
Contractor..Wallace Bros., 5917 Whitney St., Oakland.
COST, $500

ALTERATIONS
(208) W BROADWAY, S Water St., Oakland. Alterations.
Owner.....Southern Pacific Co., 130 Broadway, Oakland.
Architect....None.
Day's work. COST, $400

ALTERATIONS
(209) NO. 246 MONTE VISTA AVE, Oakland. Alterations.
Owner.....Wm. Pierce Johnson, Prem
Architect....None.
Contractor..F. G. Jones, 1217 Webster, Oakland.
COST, $1000

DWELLING
(210) W GRAND AVE, 200 N Bonham Way, Oakland. Two-story 7-room dwelling.
Owner.....R. E. Stubbe, 1408 Grand avenue, Oakland.
Architect....None.
Day's work. COST, $4,000

DWELLING
(211) W THIRTIETH AVE, 170 N E-12th street, Oakland. One-story, 5-room dwelling.
Owner.....R. K. Larsen, 1205 30th avenue, Oakland.
Architect....None.
Day's work. COST, $2,000

DWELLING
(212) S 20 LOT 3, and N 35 lot 20, Map Dell C. Woodward subdivision, Pagoda Hill, Oakland. All work for one-story and basement frame dwelling except heating, shades, electric fixtures, heater.
Owner.....Elwyn W. Stebbins, Oakland.
Architect....Albert Farr, 68 Post, San Francisco.
Contractor..Joseph Coward, 6081 Claremont Ave., Oakland.
Filed Feb. 8, '16. Dated Feb. 3, '16.
Rafters in place $600
Plastering completed 600
Completed and accepted 787
Usual 35 days 663
TOTAL COST, $2650
Bond, $1325. Sureties, Fidelity and Deposit Co. Forfeit, $5. Limit, 75 days. Plans and specifications filed.

DWELLING
(213) E HADDON ROAD, being lot 29, Map Kelly Tct, portion Watson 100 acres, Oakland. All work for one and one-half story dwelling.
Owner.....Mrs. S. Anderson, Oakland.
Architect....None.
Contractor..E. C. Bridgman, Jr., 330 Athol avenue, Oakland.
Filed Feb. 8, '16. Dated Feb. 1, '16. Deed to house at 2004 E 19th street and $150 in cash.
TOTAL COST, $3150
Bond, Sureties, none. Forfeit, $5. Limit, 90 days. Plans and specifications filed.

DWELLING
(221) NE DESMOND & HEMPHILL Court, Oakland. One-story 6-room dwelling.
Owner.....F. T. Malley, 3001 Grove, Oakland.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(222) NW FOURTEENTH & FRANKlin, Oakland. Alterations.
Owner.....Athenian-Nile Club, Prem.
Architect ...Claude Barton, 1st Savings Bank Bldg., Oakland.
Contractor..Oliver Duval & Son, Dalziel Bldg., Oakland.
COST, $750

DWELLING
(223) S FLEMING AVE 150 W Seminary, Oakland. Two-story 9-room dwelling.
Owner.....F. F. Morse, 806 Syndicate Bldg., Oakland.
Architect ...None.
Contractor..O. G. Smith, 806 Syndicate Bldg., Oakland.
COST, $2300

ALTERATIONS
(224) NO. 2009 E-TWENTY-SIXTH, Oakland. Alterations.
Owner.....Manuel Rapozo, Premises.
Architect...None.
Day's work. COST, $400

REPAIRS
(225) NOS. 569-571 FOURTEENTH, Oakland. Side walk light repairs.
Owner.....Dr. A. S. Larkey, 1328 Washington, Oakland.
Architect...None.
Contractor..P. H. Jackson & Co., 237 1st, San Francisco.
COST, $400

ALTERATIONS
(226) W WEBSTER 500 N 14th, Oakland. Alterations.
Owner.....H. C. McPike, Oakland.
Architect...None.
Contractor..D. J. Sueel, 2525 Adeline, Oakland.
COST, $450

DWELLING
(227) N E-TWENTY-EIGHTH 84 off Bay View, Oakland. Two-story 6-room dwelling.
Owner.....John D. Garretson, 610 Thomson Bldg., Oakland.
Architect...M. I. Diggs, 202 Syndicate Bldg., Oakland.
Day's work. COST, $3200

DWELLING
(230) W LAUREL AVE 40 S Delaware Oakland. One-story 5-room dwlg.
Owner.....J. B. Clifford, 3847 35th Ave., Oakland.
Architect...None.
Day's work. COST, $1500

ALTERATIONS
(232) NO. 1220 CLAY, Oakland. Alterations.
Owner.....F. J. Woodward, Oakland Bank of Savings Bldg., Okd
Architect...None.
Contractor..A. J. McPhee, 2144 E-27th, Oakland.
COST, $500

DWELLING
(233) S ALEXANDER COURT 180 W 35th Ave., Oakland. One-story five-room dwelling.
Owner.....A. F. Werum, 3498 Foothill Blvd., Oakland.
Architect...None.
Contractor..W. C. Brown, 1624 64th Ave., Oakland.
COST, $2000

FRAME DWELLING
(235) E OAKLAND AVE bet. Jerome Ave and Arbor Drive, Piedmont. One-story 6-room dwelling.
Owner.....Louise Kerrigan.
Architect...None.
Contractor..Gordon Wise, 1468 55th Ave., Oakland.
COST, $2250

FRAME DWELLING
(236) SW FLEMING AVE 424.66 NW Seminary Ave NW 60xSE 96, Oakland. All work for one-story frame dwlg.
Owner.....F. F. Morse, 806 Syndicate Bldg., Oakland.
Architect...None.
Contractor..Ferd C. Stolte, 3449 Laguna Ave., Oakland.
Filed Feb. 10, '16. Dated Feb. 8, '16.
Rafters placed ..... ¼
Enclosed ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2250
Bond, none. Limit, 80 days. Forfeit, none. Plans and specifications filed.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
202	Augustan	Landell	3800
203	Deuteron	Ala. Hm. Bldrs	18000
204	Luce	Christensen	400
205	Bowie	Houle	450
229	Allison	Allison	1000
231	Woolsey	Woolsey	400
234	Spitler	Spitler	3000

DWELLING
(202) W MARIPOSA AVE, 105 S Los Angeles, Berkeley. Two-story six-room dwelling.
Owner.....Mrs. Augustan.
Architect....None.
Contractor..E. Landell, 8704 D street, Oakland.
COST, $3800

FRATERNITY HOUSE
(203) NE COLLEGE AND DURANT, Berkeley. Three-story 21-room fraternity house.
Owner.....Delta Deuteron Building Association.
Architect....Norman W. Shaw, 3073 Bateman street, Berkeley.
Contractor..Alameda County Home Builders, First National Bank Bldg., Berkeley.
COST, $18,000

ADDITION
(204) NO. 1311 CURTIS, Berkeley. Addition
Owner.....M. Y. Luce, Premises.
Architect....J. M. Christensen.
Contractor..J. M. Christensen.
COST, $400

ALTERATION
(205) NO. 2120 LOS ANGELES, Berkeley. Alteration.
Owner.....C. P. Bowie, Premises.
Architect....None.
Contractor..Henry Houle, 386 Oaks Boulevard, San Leandro.
COST, $450

DWELLING
(229) NO. 1325 DERBY, Berkeley. One-story three-room dwelling.
Owner.....C. H. Allison, 34 Brookside, Berkeley.
Architect...None.
Day's work. COST, $1000

ALTERATIONS
(231) NO. 2178 SHATTUCK AVE., Berkeley. Alterations.
Owner.....W. E. Woolsey, Hotel Shattuck, Berkeley.
Architect...None.
Contractor..A. H. Broad, 2117 Kittredge, Berkeley.
COST, $400

DWELLING
(234) S ELDORADO 120 E The Alameda. Berkeley. One-story 6-room dwelling.
Owner.....E. B. Spitler, 815 Oxford, Berkeley.
Architect...None.
Day's work. COST, $3000

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt
214	Noble	Noble	180
215	Noble	Noble	180
216	Cole	Cole	275
217	Presley	Presley	350
218	Bush	Lee	60
219	Sunset Beach	Macauley	400
220	Delanoy	Randlett	50
228	Surf Beach	Freese	23000

DWELLING
(214) NO. 1430 COTTAGE, Alameda One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Centra Ave., Alameda.
Architect...None.
Day's work. COST, $1800

DWELLING
(215) NO. 2520 BUENA VISTA AVE. Alameda. One-story 5-room dwlg.
Owner.....G. H. Noble, 2220 Centra Ave, Alameda.
Architect...None.
Day's work. COST, $1800

DWELLING
(216) S FAIRVIEW AVE 440 E High, Alameda. Two-story 7-room dwlg.
Owner.....M. T. Cole, 3200 Fernside Ave., Alameda.
Architect...None.
Day's work. COST, $2750

DWELLING
(217) NO. 1002 SAN ANTONIO AVE., Alameda. Two-story 7-room dwlg.
Owner.....Hazel C. Presley, 1809 Nason, Alameda.
Architect...J. C. Kincade, 6604 Dana, Oakland.
Contractor..H. C. Presley, 1809 Nason, Alameda.
COST, $3500

ADDITION
(218) NO. 1724 CLINTON AVE., Alameda. Addition.
Owner.....Edith C. Bush, Premises.
Architect...None.
Contractor..S. Lee, 1832 San Antonio Ave., Alameda.
COST, $600

BATH ROOMS
(219) CENTRAL AVE AND FIFTH, Alameda. Bath rooms.
Owner.....Sunset Bathing Beach.
Architect...None.
Contractor..Macauley & De Courcy, 687 Monadnock Bldg., S. F.
COST, $4000

ALTERATIONS
(220) NO. 1346 PARK, Alameda. Alterations.
Owner.....Delanoy & Randlett, 2301 Central Ave., Alameda.
Architect...None.
Day's work. COST, $500

SWIMMING TANK
(228) SURF BEACH PARK, Alameda. Swimming tank.
Owner.....Surf Beach Amusement Co. Premises.
Architect...E. J. Symmes, Pacific Bldg San Francisco.
Contractor..August Freese, 1608 Lombard, San Francisco.
COST, $23,000

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Feb. 5, 1916—PPTY HELD UNDER lease by Western Fuel Co. from the Howard Co. near Foot of Filbert, Oakland. Western Fuel Co to California Constr. Co....Feb. 5, 1916

Feb. 7, 1916—N 1 FOOT LOT 25, all lot 26 and S ½ lot 27, blk 21, Key Route Heights, Oakland. S. A. Isaksen to whom it may concern. .....Feb. 5, 1916

Feb. 7, 1916—LOT 13 BLK 17, San Pablo Park, Berkeley. Arvid E. Olson to whom it may concern... .....Feb. 3, 1916

Feb. 8, 1916—S 20, LOT 152 and N 15, lot 150, Terminal Junction Tract, Albany. B. A. and J. M. Dice to whom it may concern...Feb. 8, 1916

Feb. 8, 1916—N BUENA VISTA AVE near Le Roy avenue, being S ptn lot 1, blk 6, Map Portion La Loma Park and the Wheeler Tract, Berkeley. Chas. C. Stevens to F. R. Peake .....Feb. 5, 1916

Feb. 9, 1916—LOT 1 BLK "A" Map East Piedmont Heights, being SE Lake Shore and Santa Ray Aves, Okd. Elizabeth A Bennett to whom it may concern.....Feb. 7 1916

Feb. 10, 1916—W SACRAMENTO 100 S Virginia, being Lot 18 Blk "C" Vista Del Mar Tract, Bkly. Agnes McCann to J A Pinkerton..... .....Feb. 10, 1916

Feb. 10, 1916—S 30 LOT 16 BLK "E" Map Highland Terrace No. 2, Okd. Harry L Alkus to Erle Saxton..... .....Jan. 29, 1916

Feb. 10, 1916—W CLAREMONT AVE 92.62 SW Alcatraz Ave SW 40 NW 68 N 21.95 E 33.48 SE 66.35, Bkly. Kingston Investment Co to Chris Engelsen.....Feb. 7, 1916

LIENS FILED

ALAMEDA COUNTY.

Feb. 4, 1916—LOT 16 BLK 3 Brookdale Terrace, Okd. O G Smith vs C W Jones..... .....$750

Feb. 8, 1916—LOT 98, Map Santa Fe Tract No. 20, Oakland. Joe Carroll vs. J. J. Benton and Gustaf Johanson $25

Feb. 9, 1916—LOT 9 BLK 1 Amended Map Blk 1, Thousand Oaks, Oakland Tp. Redwood Manufacturers Co, $1084.23; Swift & Wilcox, $322.10 vs A Y Skee and Omer N Kruschke .....

Feb. 10, 1916—LOT 9 BLK 1, Thousand Oaks, Oakland Tp. J F Lewellyn, $71.75; M A Bachelder, $106 N E Bachelder, $85.50; Herbert Johnston, $168.96 vs A Y Skee and O N Kruschke.....

Feb. 10, 1916—LOT 9 BLK 1, Thousand Oaks, Oakland Tp. Strable Mfg Co, $111.12 vs A L Skee, Herbert Johnston and O N Kruschke.

Feb. 10, 1916—LOT 9 BLK 1 Amended Map Blk 1, Thousand Oaks, Oakland Tp. L E Wilber, $85; N E Bachelder, $85.50 vs A Y Skee and O N Kruschke .....

Feb. 10, 1916—LOT 9 BLK 1 Amended Map Blk 1, Thousand Oaks, Oakland Tp. Bass Heuter Paint Co, $63.73; M Friedman & Co, $69.38 vs P J Wright and B Walker and A Y Skee .....

Feb. 10, 1916—LOT 9 BLK 1 Thousand Oaks, Oakland Tp. P J Wright, $136.15; J T Morgan, $73.75; Tilden Lumber Co, $504.03; Contra Costa Bldg Materials Co, $10 vs A Y Skee and O N Kruschke .....

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Feb. 9, 1916—SE SIXTH & BROADway S 110xE 700, Okd. Whittell Realty Co as to improvements on leased property .....

ALAMEDA BUILDERS' EXCHANGE ELECTS OFFICERS AND ADDS MANY NEW MEMBERS.

At the last meeting of the Board of Directors of the Builders' Exchange of Alameda County, held February 8th, the new board took office and elected the following officers:

President, O. W. Fletter.
Vice President, Ed. Hunt.
Treasurer, O. A. Edwall.
Secretary, E. H. Davis.

Directors—P. N. Winlund, J. P. Woods, F. H. Oats, Henry C. Steinbeck, J. H. Pedgrift, A. M. Poulson and A. J. Hillam.

Committees were appointed as follows:

Floor Committee—Makin, Winlund, Edwall and Woods.

Finance Committee—Oats, Hunt and Steinbach.

Membership Committee — Pedgrift, Poulson and Hillam.

The Treasurer's report showed a flattering increase.

New members were elected as follows: Dolan Bros., wreckers; R. S. Streeter, Hardwood Flooring; Corbett & Bayliss, General Contractors and Cabinet Makers; Fred J. Jackson, Plumbing Contractor; J. Ghiraridelli, Fire and Liability Insurance; R. W. Kenny Co., Plumbers' Supplies; C. B. Barton, Contractor; Harry J. Madden, Motor Company.

The General Secretary is to be given an additional assistant, so that he might devote more time to promoting the welfare of the Exchange.

Arrangements were also made for the leasing of the additional lot along side of their headquarters for the purpose of parking automobiles.

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

DWELLING

SW FIRST AND HAWTHORNE WAY, San Jose. Two-story frame dwelling. Owner.....Louis Sonnickson, 40 S 1st, San Jose.

Architect, MacDonald & MacDonald, 58 Sutter, S. F.

Contractor...R. O. Summers, 17 N 1st, San Jose.

Filed Feb. 1, '16. Dated Jan. 21, '16. On 1st of each month 75%

TOTAL COST, $16,555

Bond, $8278. Sureties, Hartford Accident and Indemnity Co. Forfeit, $10. Limit, 130 days. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED

Jan. 20, 1916—LOT 9 BLK 2 Sbdvn of Lots 32 and 35, San Mateo Park. Jno Dudfield to whom it may concern..... ....Jan. 20, 1916

Jan. 21, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to Pacific Fire Extinguisher Co..... .....Jan. 15, 1916

Jan. 21, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to Inlaid Floor Co.....Jan. 15, 1916

Jan. 21, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to Otis Elevator Co.....Jan. 15, 1916

Jan. 24, 1916—LOTS 19 AND 20 BLK "T" Mission Street Land Co, Daly City. Homestead Realty Co to William H Grahn.....Jan. 20, 1916

Jan. 27, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to Raymond Granite Co....Jan. 25, 1916

Feb. 4, 1916—LOT 16 BLK 47, Easton Addition No. 4, Easton, Cal. Ruth Randolph to whom it may concern .....Jan. 29, 1916

Feb. 2, 1916—MT. OLIVET CEMEtery (Columbarium). Mount Olivet Cemetery Ass'n to A Knowles..... .....Jan. 5, 1916

Feb. 8, 1916—LOT 10 BLK 43, Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern.....Feb. 7, 1916

Feb. 8, 1916—LOTS 13 AND 15 BLK 21, Redwood Highlands, Redwood City. Redwood Highlands Co to whom it may concern...Feb. 7, 1916

COMPLETION NOTICES.

SANTA CLARA COUNTY.

Jan. 29, 1916—NO. 725 MILLER ST., San Jose. J. F. Ralston and R. B. Hunt, San Jose, to whom it may concern .....Jan. 24, 1916

Jan. 31, 1916—NW WEBSTER AND University Aves., Palo Alto. C. E. Cumberson, Palo Alto to G.W. Boxton & Son.....Jan. 29, 1916

Jan. 29, 1916—OVERLOOK FARM, Los Gatos. F. K. Ainsworth, Los Gatos to H. Hooper.....Jan. 24, 1916

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Jan. 26, 1916—LOT 18, BLK 16, Hanchett Park Tract, San Jose. M. F. Cabral, San Jose to A. A. Church ..... Jan. 21, 1916

RELEASE OF LIENS.

SAN MATEO COUNTY.

RECORDED AMOUNT

Jan. 24, 1916—LOT 13 BLK 5, Lomita Park Sub. Nos. 1 and 2. Peter Johnson to Christian E Hansen... ....$26.25

LIENS FILED

SAN MATEO COUNTY.

RECORDED AMOUNT

Jan. 21, 1916—LOTS 75 AND 76 BLK 13, Belle Air, San Bruno. San Bruno Hardware & Electrical Co vs J M Suparich $83.25

Jan. 26, 1916—LOTS 12 AND 13 BLK 5, Burlingame Grove Tct. Mission Concrete & Mosaic Co (V Fassio) vs A L Bowley and John J Binet....$109

Feb. 4, 1916—LOTS 12 AND 13 BLK No. 5, Burlingame. Joe Savitsky vs A L Bowley.....$185

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING

LOTS 19 AND 20 BLK 5, Hadsell Add'n Fresno. Dwelling.

Owner.....Mrs. S. A. Elbow, 114 Thesta St., Fresno.

Architect ...None.

Contractor..S. Stingley, 2039 White St., Fresno.

COST, $2100

DWELLING

LOT 17 BLK 21, Alta Vista Tract, Fresno. Dwelling.

Owner.....F. C. Wilson, 2705 Grant St., Fresno.

Architect ...None.

Day's work. COST, $1800

DWELLING

NO. 2934 ILLINOIS AVE., Fresno. All work for dwelling.

Owner.....S. J. Dutcher, 526 5th St., Fresno.

Architect ..None.

Day's work. COST, $1000

DWELLING

LOTS 5 AND 6 BLK 3 Bloomington Addition, Fresno. Dwelling.

Owner.....Agnes J. Walker, 460 Effie St., Fresno.

Architect ...None.

Contractor..C. V. Smith, 1371 Del Mar St. Fresno.

COST, $2800

SHED

S. P. RESERVATION near Blk 217, Fresno. Erect shed.

Owner.....E. K. Wood Lumber Co., 112 Market, San Francisco

Architect ...None.

Day's work. COST, $2500

LIENS FILED.

FRESNO COUNTY.

Feb. 7, 1916—LOT 127, ORO LOMA Tract, Fresno. Southard J. Bennett, trustee vs. A. B. Luther..... ..... $440 and interest

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

ADDITION

E ½ LOT 7, 1-J-19-20, Sacramento. All work to finish off two rooms on second floor and install new wiring.

Owner.....Sing Hing, 725 J, Sacramento, Hageman Bros., lessee, 1915 J, Sacramento.

Architect....None.

Contractor..Joe A. Pausback, 1020 25th, Sacramento.

COST, $350

METAL BILL BOARD

"M," BET. CHANNING WAY and Sylvan Way, on lot 720, Wright & Kimbrough Tract, Sacramento. All work to erect metal bill board (10x100.)

Owner.....Chas. Vining.

Architect....None.

Contractor..Funk & Nicolaus, 707 Oak Ave., Sacramento.

COST, $350

OVEN AND OIL BURNER

NO. 3206 FOURTH, on lot 75, blk. C, Oak Grove, Sacramento. Build brick oven and install oil burner in two-story reinforced concrete building.

Owner.....R. G. Kaeser, 3206 4th Ave, Sacramento.

Architect....None.

Contractor..Peterson Oven Co., Chicago, Ill.

COST, $1900

REPAIRS

NO. 730 O ST., on E ½ Lot 4 O, P, 7th and 8th Sts., Sacramento. Place new floor and joists in store and general repairs to front and painting of same.

Owner.....Isabel McGinnis, 730 O St., Sacramento.

Architect ...None.

Contractor..Wm. Cippa, 314 24th St., Sacramento.

COST, $500

ALTERATIONS

1 ST., bet 9th and 10th Sts., on Lots 5, 6, 7 and 8, H, I, 9th and 10th Sts., Sacramento. Alterations to private office of Chief of Fire Department in City Hall.

Owner.....City of Sacramento, City Hall, Sacramento.

Architect ...None.

Contractor..City Carpenter, City Hall, Sacramento.

COST, $650

ICE BOX

N ¼ LOT 5, K, L, 9th and 10th Sts., Sacramento. Place ice box in creamery.

Owner.....National Creamery Co., 1118 10th St., Sacramento.

Architect ...None.

Contractor..Book & Blair Co., 1009 Front, Sacramento.

COST, $496

REPAIRS

S ¼ LOT 1, J, K, 10th and 11th Sts., Sacramento. General repairs and remodel interior of store and make offices

Owner. ...Builders' Exchange of Sacramento, 1015 10th St., Sacramento.

Architect...None.

Day's work. COST, $500

NO. 1117 SEVENTH ST., on N ¼ Lot 8, K, L, 7th and 8th Sts., Sacramento. Install 3 Hall gas floor heaters.

Owner.....Mike Smith, 1115 7th St., Sacramento.

Architect ...None.

Contractor..George Schelcher, 2430 Q St., Sacramento.

COST, $450

BRICK CREAMERY

NO 1016 EIGHTH on N 40 feet of E 40 feet lot 5, J-K-7-8, Sacramento. All work for two-story brick store (creamery) concrete foundation, concrete floor in basement.

Owner.....Frederick Co., 21st and T, Sacramento.

Architect....None.

Contractor..G. W. Kopp, 1514 15th, Sacramento.

COST, $7,000

NOTICE OF NON-LIABILITY.

Jan. 4, 1916—LOTS 14, 28 and 46, Dye Chinatown, Walnut Grove, Sacramento. Milo E., Sperry W., and Corodon Dye and Amy Brown as to improvements on leased property.

BUILDING CONTRACTS.

SAN JOAQUIN COUNTY.

STORES

LOTS 13 AND 14 AND N 35 feet of lots 2 and 4 and 6, block 29, East Stockton. All work of excavating, concrete work, paving, brick work, iron work, carpenter work, lathing, plastering, metal work, roofing, plumbing, painting, damp-proofing, and all work for three-story, ground stores, two upper, lodging house.

Owner.....Mary E. Rolland and Laura Flanagan, 129 E Magnolia street, Stockton.

Architect....Franklyn E. Warner, San Joaquin Bldg., Stockton.

Contractor..Daniels & Green, 623 W Park street, Stockton.

Filed Feb. 2, '16. Dated Feb. 1, '16.

Second floor joists are on....$4,000.00

Roof is on 4,000.00

Plastering is completed 5,000.00

Completed and accepted 6,983.75

Usual 35 days 6,661.25

TOTAL COST, $26,645

Bond, $13,330. Sureties, Ralph Wilcox and F. E. Goodell. Forfeit, $20. Limit, 120 days. Plans and specifications filed.

DWELLING

WILLOW AND COMMERCE STREETS, Stockton. All work of excavating, concrete work, lumber, carpenter work, labor, mill work, electrical work, plastering, painting, for three one-story dwellings.

Owner.....F. J. Campodonico, Waterloo Road, Stockton.

Architect....Joseph Losekann, San Joaquin Bldg., Stockton.

Contractor..W. D. Voorhies & Son, Lodi, Cal.

Filed, Feb. 3, '16. Dated Feb. 1, '16.

Foundation complete .....$ 800

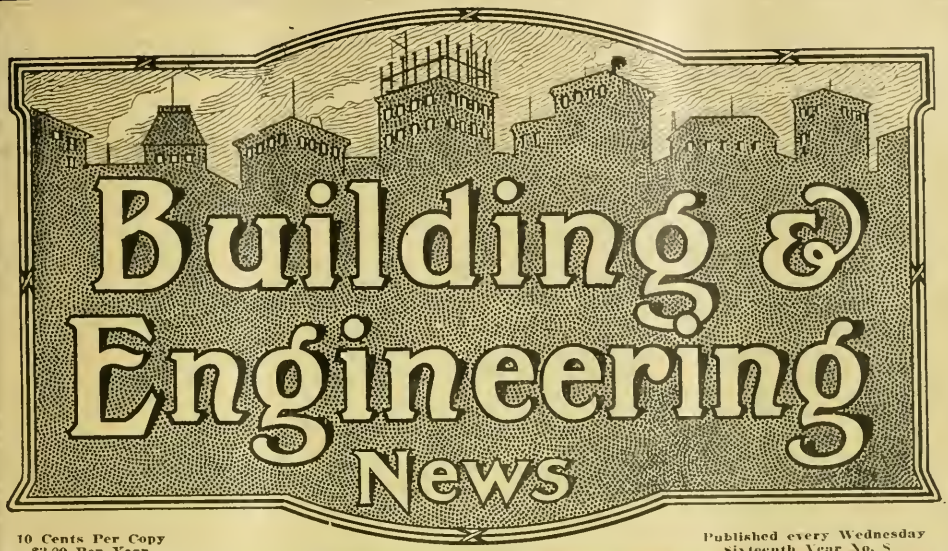
All frames up 1,000

Completed and accepted 2,515

Usual 35 days 1,600

TOTAL COST, $5,915

Bond, $2958. Sureties R. S. Tuller and G. A. Gerlach. Forfeit, $5. Limit, 75 days. Plans and specifications filed.



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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JANUARY BUILDING OPERATIONS.

Building permits issued in 113 of the principal cities of the country for the month of January, make a very favorable showing. The figures, as officially received by the American Contractor, Chicago, total $52,863,309, as compared with $38,770,894 for January, 1915. For January last year the building industry suffered a shrinkage of 25 per cent, as compared with the first month of 1914. The total this year exceeds that of two years ago a good percentage, and seems to indicate fully a normal volume of business in construction work.

The larger cities make a good showing. The decrease in the boroughs of Manhattan and Bronx, New York City, may be regarded as accidental, inasmuch as during January last year permits were taken out for two structures in the million dollar class. Chicago makes a gain of 88 per cent and Philadelphia one of 104 per cent. Boston gains 79 per cent. As will be noted in the table below many large increases are recorded, 65 of the113 cities scoring gains as compared with 12,672 for January 1915. Details follow with Pacific Coast cities given in heavy type:

	Jan. 1916	Jan. 1915
Akron ..... $	288,430	$ 52,635
Alameda	**70,523**	**12,745**
Albary	114,595	340,290
Allentown	120,445	5,835
Altoona	4,982	22,255
Atlanta	130,480	273,796
Baltimore	948,210	480,095
Bayone	125,683	38,000
Berkeley	**64,500**	**83,750**
Binghamton	75,700	29,219
Birmingham	273,611	72,178
Boston	4,300,000	2,408,000
Bridgeport	392,276	98,110
Brockton	50,950	48,275
Buffalo	510,000	381,000
Canton	71,725	31,175
Cedar Rapids ...	44,000	168,000
Chicago	3,118,200	4,327,900
Cincinnati	415,895	451,350
Cleveland	1,600,895	1,116,080
Colo. Springs	11,986	7,665
Columbus	223,415	85,100
Dallas	771,630	140,005
Davenport	27,579	26,455
Dayton	115,645	30,000
Des Moines	115,645	52,250
Detroit	1,979,410	1,217,290
Duluth	113,733	90,155
East Orange	59,955	87,121
E. St. Louis	5,885	23,025
Elizabeth, N. J..	455,088	82,314
Erie	116,171	66,509
Evansville	31,862	69,050
Ft. Wayne	64,250	35,100
Ft. Worth	91,127	90,705
Fresno	**51,497**	**179,547**
Grand Rapids ...	118,455	80,072
Harrisburg	86,575	7,575
Hartford	235,978	139,265
Haverhill	25,200	15,400
Holyoke	68,400	23,850
Huntington	41,555	18,455
Indianapolis	342,910	266,907
Kansas City, Kan	23,520	35,690
Kansas City, Mo.	444,575	387,880
Lawrence	56,250	48,375
Lincoln	53,045	70,135
Little Rock	31,586	29,559
Los Angeles	**1,678,724**	**860,360**
Louisville	178,980	333,520
Manchester	50,684	19,317
Memphis	186,800	101,953
Milwaukee	2,433,838	203,649
Minneapolis	586,340	485,100
Montgomery	57,399	40,483
Mt. Clair	72,000	80,861
Nashville	150,999	56,037
Newark	359,363	339,803
New Bedford	204,770	75,560
New Haven	675,068	132,155
New Orleans	134,425	146,909
New York (Boroughs of Manhattan and Bronx)	7,571,177	10,273,381
Brooklyn	3,012,343	1,624,203
Norfolk	148,222	119,864
Oakland	**248,408**	**291,859**
Oklahoma	103,350	16,553
Omaha	177,025	165,075
Pasadena	**77,882**	**74,779**
Passaic	43,280	20,410
Paterson	141,788	73,895
Peoria	116,900	17,600
Philadelphia	1,859,090	910,805
Pittsburgh	344,944	465,461
Portland, Me. ...	78,445	15,065
Portland, Ore. ...	**169,375**	**378,040**
Pueblo	21,636	6,300
Quincy, Ill.	79,875	59,605
Reading	11,750	5,900
Richmond	300,592	159,840
Rochester	746,506	246,717
Sacramento	**73,407**	**115,735**
Saginaw	4,675	133,794
Salt Lake City..	178,262	85,650
San Diego	**128,554**	**288,895**
San Francisco ...	**1,913,461**	**1,284,898**
San Jose	**20,067**	**24,156**
Savanah	52,000	152,750
Schenectady	57,950	327,650
Scranton	129,475	38,170
Seattle	**413,505**	**408,585**
Shreveport	54,449	46,326
Sioux City	42,200	24,950
Spokane	**38,555**	**92,185**
Springfield, Ill. ..	92,525	69,400
Springfield, Mass.	325,815	266,005
St. Joseph, Mo...	10,990	12,380
St. Louis	644,191	1,094,673
St. Paul	423,198	699,258
Stockton	**18,222**	**24,040**
Superior	6,955	65,830
Syracuse	109,445	219,715
Tacoma	**33,154**	**59,598**
Terra Haute	22,535	2,400
Toledo	560,875	537,297
Topeka	29,110	18,270
Trenton	132,520	36,812
Troy	207,995	100,014
Utica	77,135	109,905
Washington, D. C.	738,516	470,328
Wichita	34,100	32,300
Wilkes-Barre	33,850	34,643
Wilmington	263,768	58,083
Woonsocket	19,975	19,500
Worcester	330,185	77,276
Youngstown	96,345	69,367
Total	$52,863,309	$38,770,894

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

AMUSEMENT PARKS.

OAKLAND, CAL.—Amusement park improvements. $75,000. Architect, W. D. Reed, Oakland Bank of Savings, Oakland. Owners, Idora Park Co. An open air, salt water swimming tank and artificial bathing beach is planned for Idora Park. A miniature replica of the beach at Honolulu will be a feature of the bathing establishment. White sand from Carmel will be used in providing a beach 40,000 ft. in area. The pool will be so constructed as to be used in winter for ice skating. The tank will be 75 by 500 feet and lined with white tile. There will be a wading pool for children and the tank will be equipped with slides, spring boards and high diving platforms and rings. The water will be pumped from the Key Route pier and heated to a comfortable temperature.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $14,000. Architect, none. Owner, Michael Dempniak, 728 Page street, S. F. Location, west Leavenworth north of Vallejo, covering an area of 25 by 81 feet. Will contain six apartments of three rooms and bath. Interior finish pine and elm panels with some hardwood floors. Steam heat and a hot water supply. Wall beds. Composition floors in bath rooms. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $20,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, Leavenworth St. Will contain fourteen apartments of two and three rooms. Interior finish pine and hardwood veneer. Some hardwood floors. Steam heat and hot water supply. Bath rooms tile and composition floors. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Apartment house, 2 story and base, brick, $8,000. Architects, Jeffery & Young, Wolfe Bldg., Stockton. Owners, V. Goodman and F. Justin. Location, Washington between California and American streets. Will contain a store on the first floor and seven small apartments on the upper floor. Interior finish pine. Patent store fronts. Gas grates. Wall beds. Exterior faced with pressed brick. Plans being figured.

SAN FRANCISCO—Apartment house, 4 story and base. Class C, $10,000. Architect, J. C. Hladik, Monadnock Bldg., S. F. Owner's name withheld. Location, south Bush east of Hyde. Will contain a number of two, three and four room apartments. Interior finish pine and elm panels. Some hardwood floors. Steam heat, automatic elevator, oil burning plant and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $17,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, J. Lauray and J. Couragnet. Location, Leavenworth north of Broadway. Will contain fifteen suites of two and three rooms. Interior finish pine and elm. Some hardwood floors. Steam heat. Hot water supply. Bath rooms tile. Wall beds. Exterior covered with cement plaster and rustic. Plans being prepared.

OAKLAND, CAL.—Apartment house, 3 story and base, frame. Cost not stated. Architect, Noble Newsom, Nevada Bank Bldg., S. F. Owner, Noble Newsom. Location, east Oak street. Will contain several apartments of two and three rooms. Interior finish pine and redwood. Sleeping porches and wall beds. Tile bath rooms. Steam heat and hot water supply. Exterior covered with cement plaster. Plans revised and new figures being taken.

SEATTLE, WASH. — Apartment house, 5 story and base, reinforced concrete. Owners, Goodwin Realty Co. Location, Boren avenue and Howard street. Will contain two and three room apartments with wall beds and private bath rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

BERKELEY, ALAMEDA CO., CAL.—Aparemtn house, 4 story and base, brick and steel, $75,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, Telegraph avenue and Haste. Will contain a number of two, three and four room apartments. Interior finish pine and hardwood. Hardwood floors. Steam heat, automatic elevator, oil burning system, hot water supply and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

Contracts Awarded.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 4story and base, brick and steel, $60,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Contractors, Sommarstrom Bros., 301 Oakland, avenue, Oakland. Contract price, $60,000. Contractors are now taking subfigures.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $9,680. Architect, J. C. Hladik, Monadnock Bldg., S. F. Owner, Mrs. E. S. Tuttle Bray. Contractors, Sinnott & Alsop, 1325 Guerrero street, S. F. Contract price, $9,680.

BANKS

Contracts Awarded.

PORTLAND, ORE.—Bank 2 story and base, brick and reinforced concrete, $40,000. Architects, Houghtaling & Dougan, Henry Bldg., Portland. Owners, Citizens Bank. Contractor, James P. Taylor, Macleay Bldg., Portland. Contract price, $40,000.

BONDS

MODESTO, STANISLAUS CO., CAL.—A straw election on the West Side to be held immediately to determine the site for a new grammar school and a bond election about March 15th to provide for a new West Side grammar school and $160,000 for a new high school has been recommended by the Building Committee of the Modesto School District.

The $40,000 to be asked for a new grammar school is to cover cost of site, building and equipment. The $160,000 for the new high school is also to cover cost of site, building and equipment.

SUSANVILLE, LASSEN CO., CAL.—Bonds of $15,000 were voted last week for the improvement of streets. Bonds of $3,000 for the construction of a fire alarm system also carried.

SANTA CLARA, SANTA CLARA CO., CAL.—Considerable interest is being manifested in the plan for a municipal auditorium to be built on the site of the old town hall. The chamber of commerce will bring the matter before the next regular meeting.

ORLAND, GLENN CO., CAL.—March 3rd is the date set to vote bonds of $7,000 for financing the purchase of additional grounds to build the proposed civic center.

Additional grounds for parks and playgrounds about the new city library and city hall will be purchased, if the bonds carry.

DANVILLE, CONTRA COSTA CO., CAL.—A second election is to be held in June to determine whether or not $90,000 shall be expended in building a boulevard that will bring Mt. Diablo within seventeen miles of Oakland. The issue was defeated last December by eighteen votes.

SACRAMENTO, CAL.—State Treasurer Richardson announces that he has $43,000 ready with which to redeem San Francisco sea wall bonds. Of these bonds 868 were drawn last November and $825,000 has been retired since January.

FORTUNA, HUMBOLDT CO., CAL.—The County Clerk has been informed that the $24,000 high school bonds voted recently for a new high school building have been approved. After the sale of the bonds construction on the building will be started.

OAKLAND, CAL.—At a recent meeting of the executive committee of the east bay public utilities district committee, a number of prominent members were appointed to draft an ordinance calling an election for the for-

mation of a public utilities district, comprising the cities of Oakland, Berkeley, Alameda and Piedmont for the purpose of acquiring a publicly owned water supply.

BAKERSFIELD, KERN CO., CAL.—The $75,000 bond issue of the Bakersfield School District has been sold by the Supervisors to the N. W. Halsey Company. The $45,000 issue of the Wasco District was sold to F. M. Brown & Co. The proceeds of both sales will be used in the erection of new schools.

YONCALLA, ORE.—An ordinance has been passed by the Council calling o special election to vote bonds of $20,000 for the construction of a municipal water system. It is also proposed to issue bonds of $2,400 to pave street intersections

SAN RAFAEL, MARIN CO., CAL.—The question of a special election to revote the $40,000 bonds for channel improvement was up before the City Council last week, and action was postponed until the regular session of the board on March 6th.

FRESNO, FRESNO CO., CAL.—The Supervisors of Fresno County and those of Kings County passed a joint resolution authorizing the issuance of $25,000 bonds to be expended in the construction of the Riverdale Joint Union High School

YUMA, ARIZ.—Notice calling for bids for the bond issue for municipal improvements will be readvertised so that bids can be opened about April 4th. The destruction of the Sun newspaper plant invalidated the previous publications of the notice.

VISALIA, TULARE CO., CAL.—A road bond issue will be submitted to the voters of Tulare County according to a recent decision of the Board of Supervisors. The issue will call for 104 miles of 18-foot roadway with concrete base and surfacing similar to the state highway. The date has not been settled.

POMONA, LOS ANGELES CO., CAL.—A bond election to vote $200,000 for repairing streets ruined by the recent storm waters and the purpose of paving other streets, is being advocated by a group of 100 citizens who have appointed a committee to report on improvement plans.

LONG BEACH, LOS ANGELES CO., CAL.—An election will be called sometime within the next 90 days to submit to voters the proposal to incur a bonded indebteiness of $500,000 for the construction of a horseshoe pier.

CHINO, SAN BERNARDINO CO., CAL.—A special election will be held March 15th for the purpose of voting bonds in the sum of $128,000 for the construction of a sewer system, the establishment of a sewer farm, and the paving of certain streets.

EL CENTRO, IMPERIAL CO., CAL.—The City Trustees are considering calling an election this spring for the purpose of voting on a bond issue for the installation of a filtration plant similar to the one in use at Calexico for the domestic water system Estimated cost, $35,000.

FAIRFIELD, SOLANO CO., CAL.—The Town Trustees have called a special election for March 7th to vote bonds of $48,700 for the improvement of streets.

WOODLAND, YOLO CO., CAL.—A strong fight is being made against the proposed issue of bonds for $250,000 for the erection of a new court house.

MARTINEZ, CONTRA COSTA CO., CAL.—The matter of voting bonds for a water system, electric fire alarm system, the purchase of fire apparatus, street improvements, enlargement of storm sewers and lowering streets to carry away flood waters, is urged by citizens and business men of this city.

SANTA ANA, ORANGE CO., CAL.—A special election will be called in the near future to vote bonds to finance the construction of concrete bridges and highways, destroyed in the recent storms.

LOS ANGELES, CAL.—The Board of Supervisors has sold the $500,000 state highway bonds to E. H Rollins & Sons. The proceeds will be used in the construction of highways in Los Angeles County.

MERCED, MERCED CO., CAL.—At the last meeting of the City Trustees, it was decided to submit to the electors at the municipal election to be held on April 10th two bonding propositions. The people will be asked to decide the question is issuing bonds in the sum of $15,000 for the purchase of additional fire apparatus and a $10,000 bond issue to be spent for necessary extensions of the sewer system. The bonds will run for fifteen years.

BRIDGES, DAMS AND HARBOR WORK

RIVERSIDE, RIVERSIDE CO., CAL.—Bridges, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, Riverside. Owners, Riverside County. At the last meeting of the County Supervisors the County Surveyor was instructed to prepare plans and estimates for the Pauha and Barnett bridges. The former is between Temecula and the San Diego County line, and the latter between Temecula and Murrieta. Bids on this work will be called for shortly.

REDWOOD CITY, SAN MATEO CO., CAL.—Bridge timber, $2,600. Engineer, County Surveyor, Redwood City. Owners, San Mateo Co. At the last meeting of the County Supervisors, Surveyor Neuman gave an approximate estimate of $2,000 for the cost of providing a temporary bridge across the washout, said cost to include the making of the fill, which would be a permanent nature, the cost of the temporary bridge itself only being about $500. The surveyor was directed to have the plans and specifications for the work ready for the next meeting, when a call for bids will be issued.

CHURCHES

SAN FRANCISCO—City Hall furniture, etc. Cost as follows. Owners, City and County of San Francisco. The following conotracts were awarded at Friday's meeting of the San Francisco Board of Public Works. Award contract to W. & J. Sloane at $1,525 for furnishing draperies in the Mayor's office in New City Hall. Award contract to Jas. B. McSheehy for furnishing and installing special furniture in Registrar's office in New City Hall at $1,226.

LOS ANGELES, CAL.—Residenece, 2 story and base, frame, $15,000. Architect E. J. Borgmeyer, Stimson Bldg., L. A. Owner, Mathew Ficher. Location, Normandie avenue. Will contain 12 rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heating system, vacuum cleaning and open fire places. Mantels tile and brick. Hot water circulating system. Bath rooms tile. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

WHITTIER, LOS ANGELES CO., CAL.—Mausoleum, 1 story, Class A construction. Cost not stated. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Reinforced concrete, foundation and walls. Will contain 500 crypts, office and chapel. Interior finish, stone and marble. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

COURT HOUSES.

HOLLYWOOD, LOS ANGELES CO., CAL.—Church, 1 story and base, hollow tile, $35,000 Architect, Frank L. Meline, 6772 Hollywood Blvd., L. A. Owners, Fifth Church of Christ Scientist. Location, La Brea Ave. and Hollywood Blvd., covering an area of 85 by 120 feet. Will contain main auditorium, study, Sunday School rooms and reading rooms. Interior finish, pine and ornamental plaster. Central heating system. Exterior faced with cement plaster. Plans complete and figures being taken.

FACTORIES AND WAREHOUSES

SAN FRANCISCO,—Factory addition, 5 story and base, reinforced concrete, $200,000. Architect, Kahn, Detroit. Owners, Ford Motor Co. Plans and specifications for the five story and basement reinforced concrete addition to the Ford Motor Co's. plant at 21st street and Treat avenue, have arrived from Detroit and will be put out for figures shortly. Mr. Kahn, of MacDonald & Kahn, Rialto Bldg., has charge of the work. All bids will go direct to the Ford Manager, Mr. Lund.

SAN FRANCISCO.—Factory, 3 story frame, $40,000. Architect, none Owners, Rudgear-Merle Co., 198 Bay St., S. F. Location, northeast Bay and Powell streets, covering an area of 206 by 275 feet. Concrete first floor. Sprinkler system. Exterior covered with shiplap. Plans complete and work to be done by Day Labor.

WILMINGTON, LOS ANGELES CO., CAL.—Warehouses, two 1 and three story and base, reinforced concrete, $60,000. Architects, Mayherry & Parker, Pacific Electric Bldg., L. A. Owners Los Angeles Warehouse Co. Each building will cover an area of 50 by 240 feet. No interior finish. Reinforced concrete floors, walls and roof slabs. Metal window sash and frames. Automatic sprinklers. Exterior faced with cement plaster. Plans are being prepared

FLATS

SAN FRANCISCO — Flats, 2 story and base, frame, $7,000. Architect, Paul F. De Martini, 2123 Powell St., S. F. Owner, J. Perlite. Location, east Leavenworth, north of Vallejo. Will con-

tain two residential flats of five and six rooms with bath and a sleeping porch. Interior finish, pine, hardwood and white enamel. Hardwood floors, open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO.—Flats 2 story and base, frame, $5,000. Architect, none. Owner, Anna K. Johanson, 1832 Franklin St., S. F. Location east 10th Ave., south of Geary. Will contain two flats of five and six rooms. Interior finish, pine and elm with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms composition. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor

SAN FRANCISCO — Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Thomas Burke, 605 Arguello Boulevard, S. F. Location southwest of Anza and Arguello. Will conotain two flats of five and six rooms with baths and sleeping porches. Interior finish, pine and white enamel, with some elm panels. Hardwood floors. Automatic water heaters. Open fire places and tile or brick mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN RANCISCO — Flat and store, 2 story and base, frame, $3,500. Architect, Joseph A. Leonard, 85 Cerritos Ave., S. F. Owners, Urban Realty Co. Location, Ocean Ave., east of Victoria. Will contain one store on the first floor and a six room flat above. Interior finish pine and elm. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

OAKLAND, CAL.—Garage, 2 story brick, $8,500. Architect, none. Owner, J. W. Owen and R. W. King, 1461 Alice St., Oakland. Location, west of Alice, north of 14th. Designed for a commercial garage. Concrete floor. Special wash room and office. No interior finish. Gasoline storage tanks. Exterior faced with stock brick. Plans complete and work to be done by Day Labor

OAKLAND, CAL.—Garage, 1 story reinforced concrete, $7,000. Architect, none. Owner, W. H. MacKinnon, Magnolia and Nova avenues, Piedmont. Location, west Broadway between Moss and 38th street Concrete walls and floor. Special gasoline storage tanks. Interior finish, pine. Metal window sash and frames. Exterior faced with cement plaster. Plans complete aand work by Day Labor.

PORTLAND, ORE.—Garage and sales rooms, 2 story and base, brick. Cost not stated. Architects, MacNaughton & Raymond, Title & Trust Bldg., Portland. Owners, White Co. Location, southwest corner of West Park and Couch streets, covering an area of 100 by 100 feet. First floor will be used for display rooms and offices. Upper floor and basement for garage and shipping room. Interior finish pine and hardwood. tile floor. Steam heat. Metal window sash and frames Exterior faced with pressed brick. Plans being prepared.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular No. 125.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office circular No. 125, opened Jan. 27, 1916:

Bid 1. California Paint Co., 12th and Pine streets, Oakland, Cal.

2. Boesch Lamp Co., 1135 Mission street, San Francisco, Cal.

3. York-California Construction Co., 862 Folsom street, San Francisco, Cal.

4. International Filter Co., Merchants Exchange Building, San Francisco, Cal.

5. Vulcan Iron Works, Francisco and Kearny streets, San Francisco, Cal.

6. California Steam and Plumbing Supply Co., 671 5th street, San Francisco, Cal.

7. Dalziel-Moller Co., 556 Mission street, San Francisco, Cal.

8. G. M. Josselyn & Co., 56 Sacramento street, San Francisco, Cal.

9. Charles Brown & Sons, 871 Market street, San Francisco, Cal.

10. California Casket Co, 959 Mission street, San Francisco, Cal.

11. Western Electric Co., 680 Folsom street, San Francisco, Cal.

12. Electric Appliance Co., 807 Mission street, San Francisco, Cal.

13. Crane Co., 2nd and Brannan streets, San Francisco, Cal.

14. Yates & Co., 762 Folsom street, San Francisco, Cal.

15. Bennett Bros., 525 Market street, San Francisco, Cal.

16. Wolverine Brass Works, 214 Natoma street, San Francisco, Cal.

17. Pacific Hardware and Steel Co., 7th and Townsend streets, San Francisco, Cal.

18. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

19. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

20. Kohler & Chase, 26 O'Farrell street, San Francisco, Cal.

21. Sherman, Clay Co., Kearny and Sutter streets, San Francisco, Cal.

22. Handlan-Buck Mfg. Co., St. Louis, Mo.

23. Holbrook, Merrill & Stetson, 6th and Bloxume streets, San Francisco, Cal.

24. H. W. Johns-Manville Co., 2nd and Howard streets, San Francisco, Cal.

25. Whittier-Coburn Co., Howard and Beale streets, San Francisco, Cal.

26. Universal Trading Co., 171 Broadway, New York city.

27. W. E. Mushet & Co., 518 Mission street, San Francisco, Cal.

28. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.

29. Wagner Bros., 419 Jackson street, San Francisco, Cal.

30. Marine Electric Co., 350 Howard street, San Francisco, Cal.

31. Bass-Hueter Paint Co., 816 Mission street, San Francisco, Cal.

Item 1. 30 gals fluid, embalming — Bid 10, $1.75 gal; accepted.

2. 12 cans polish, metal—Bid 20, 12c can; 21, $1; 29, 12c; no award.

3. 25 boxes, outlet—Bid 11, 9c ea; 12, 8c, accepted; 28, 9c; 30, 9c.

4. 5 braces, corner, 8 in—Bid 17, $2.20 ea, accepted; 19, $2.30.

5. 1 cleaner, tube—Bid 22, $75; 26, $59.90; 27, $55, accepted.

6. 4,000 ft conduit, rigid, ½ in—Bid 11, $4.16 per 100 ft; 12, $4.32; 18, $4.17; 28, $4.16, accepted; 30, $4.16.

7. 50 ft do, 2 in—Bid 11, $17.47 per 100 ft; 12, $18.15; 18, $17.48; 28, $17.47; 30, $17.47, accepted.

8. 80 condulets, No. C1—Bid 11, 18.63c ea; 12 18.6c, accepted; 18, 16.83c; 28, 18.63c; 30, 18.63c.

9. 40 do, No. E1—Bids 11, 12, 18, 28, and 30, 15c ea; bid 30 accepted.

10. 60 do, No. LL11—Bids 11, 12, 18, 28, and 30, 20.7c ea; bid 30 accepted.

11. 100 do, No. LR11—Bids 11, 12, 18, 28, and 30, 20.7c ea; bid 30 accepted.

12. 125 do, No. FD1—Bid 11, 34.92c ea; 12, 34.9c; 18, 38.81c; 28, 34.92c, accepted; 30, 34.93c.

13. 20 do, No. FS22—Bid 11, 67.27c ea, accepted; 12, 67.2c; 18, 28 and 30, 67.27c.

14. 30 do, No. K1—Bid 11, 25.87c ea; 12, 25.8c; 18, 28, and 30, 25.87c; bid 30 accepted.

15. 87 do, No. P1—Bid 11, 65.2c ea; 12, 72.4c; 18, 74.45c; 28, 65.20c; 30, 65.2c, accepted.

16. 20 do, No. PC11—Bid 11, 77.62c ea; 12, 77.6c; 18, 28, and 30, 77.62c; bid 30 accepted.

18. 4 couplings, ammonia—Bid 3, 15c ea, accepted; 5, 50c.

19. 40 covers, outlet box, flat—Bid 11, 6.3c ea; 12, 5.6c, accepted; 28, 6.3c; 30, 6.3c.

20. 20 do, pendant—Bid 11, 8.1c ea; 12, 72c; 28, 8.1c, accepted; 30, 8.1c.

21. 20 do, 1¼-in hole—Bid 11, 4.5c ea; 12, 4c; 28, 8c; 30, 9c; no award.

22. 150 covers, condulet, No. 100 — Bid 11, 4.14c ea; 12, 4.1c, accepted; 18, 28, and 30, 4.14c.

23. 325 do, No. DSS8—Bid 11, 4.65c ea; 12, 4.6c, accepted; 18, 5.17c; 28 and 29, 4.65c.

24. 20 do, No. SS82—Bid 11, 10.35c ea; 12, 10.3c, accepted; 18, 28, and 30, 10.35c.

26. 1 cutter, tube, 3½ in — Bid 22, $21.75, accepted; 27, $32.05.

27. 1 dresser, hibb seat—Bid 16, $2, accepted.

28. 2 elbows, pipe, 4 in—Bid 6, $2.62 ea, accepted; 13, $3.50.

29. 1 jack, hydraulic, 7 ton—Bid 18, $39, accepted; 22, $46.50.

30. 2 nipples, pipe, 3½x3½ in—Bids 13, $2.50 ea, accepted.

31. 8 do, 4x4 in—Bid 13, $2.85ea, accepted.

32. 10 lbs packing, tape, asbestos—Bid 24, 50c lb, accepted.

33. 5 gals paint, aluminum bronze — Bid 1, $5 gal; 14, $2.93; 26, $4.97; 29, $2.70, accepted.

34. 200 lbs paint, carmine lake—Bid 1, 69c lb; 14, 63c, accepted; 22, 48½c; 26, 74c; 31, 48c.

35. 500 sheets filter cardboard—Bid 4, 3c sheet, accepted.

36. 10 sheets do, felt — Bid 4, 60c sheet, accepted.

37. 1 handle, wrench, 8 in — Bid 7, 60c; 18, 50c; 19, 50c; 23, 38c, accepted.

38. 1 do, 10 in—Bid 7, 60c; 18, 60c; 19, 60c; 23, 44c, accepted.

39. 1 do, 14 in—Bid 7, 80c; 18, 80c; 19, 80c; 23, 57c, accepted.

40. 40 ft pipe, wrought, 4 in—Bid 13, $1.02 ft, accepted.

41. 6 plugs, spark—Bid 12, 60c ea; 24, 35c; no award.

42. 6 prickers, sailmakers'—Bid 8, 73c ea, accepted.

43. 3 pumps, oil, copper—Bid 23, $4.50 ea, accepted.

44. 2 reducers, pipe, 4x3½ in—Bid 13, $5.51 ea, accepted.

45. 300 lbs sand, quarts—Bid 9, $4.75 cwt; 29, $2.10, accepted.

46. 7 shades, dome, opal—Bid 2, $1.20 ea, accepted.

47. 1 stone, carborundum, 8 in—Bid 17, 73c, accepted.

48. 4 tees, pipe, 4x2 in—Bid 6, $3.75 ea, accepted; 13, $4.55.

50. 2 unions, flange, 4 in—Bid 6, $8.96 ea; 13, $7.33, accepted.

51. 2 vales, check, 4 in—Bid 13, $40.75 ea, accepted.

52. 2 valves, gate, 4 in—Bid 6, $43.60 ea; 13, $46, accepted; 22, $37.50.

53. 3 valves, straightway, 4 in—Bid 6, $8 ea, accepted; 13, $9.70; 22, $18.85.

54. 3,271 washers, bibb, ½ in—Bid 15, 76c per 100; 16, 60c; 23, 55c, accepted.

55. 3,271 do, ¾ in—Bid 15, 86c per 100; 16, 70c; 23, 65c, accepted.

56. 1 Y, double, 8x4x4 in—Bid 13, $116.50, accepted.

57. 280 bars, shutter—Bid 15, 12c ea, accepted; 17, 17.4c; 19, 18c.

58. 30 bolts, barrel, 4 in—Bid 15, 29c ea; 17, 19c, accepted; 19, 35c.

59. 10 do, lever, flush—Bid 15, 49c ea, accepted; 17, 52c; 19, 50c.

60. 36 brushes, tar—Bid 25, 40c ea, accepted.

61. 84 catches, transom, 2 in—Bid 15, 23c ea, accepted; 17, 26c; 19, 27c.

62. 98 chains, transom—Bid 15, 20c ea, accepted; 17, 20c; 19, 27c.

63. 24 prs hinges, chest, 2 in—Bid 17, 4.9c pr; 19, 4.5c, accepted.

64. 10 locks, dead, mortise — Bid 15, 70c ea; 17, 52c, accepted; 19, 60c.

65, 14 locks, front door—Bid 15, $1.30 ea; 17, $1.13, accepted; 19, $1.70.

66. 6 gro nuts, machine screw—Bid 16, $1.50 gro; 17, 82c; 19, 70c, accepted.

67. 37 parts, barn door, brackets, No. 14—Bid 18, 11c ea; 19, 11c, accepted.

68. 35 do, brackets, No. 15—Bid 18, 11c ea; 19, 11c, accepted.

69. 104 prs do, hangers—Bid 18, $1.21 pr, accepted; 19, $1.34; 26, $1.17.

70. 40 ft do, track—Bid 18, 11c ft; 19, 11c, accepted.

71. 3 gro screws, machine, 1 in—Bid 16, $2.68 gro; 17, 65c, accepted; 18, 82c; 19, 80c.

72. 3 gro do, 1½ in—Bid 16, $3.27 gro; 17, 83c, accepted; 18, $1.06, 19, $1.

Eureka, Cal., Steel Cabinet.

The following bids were received by the supervising architect, Treasury De-

partment, Washington, D. C., February 9 for installing one steel cabinet in the U. S. post office and custom house at Eureka, Cal.:

The Keyless Lock Co., Indianapolis, Ind., $60.

Crown Metal Construction Co., Jamestown, N. Y., $63.

Berger Mfg. Co., Canton, Ohio, $67.50.

Watson Mfg. Co., Jamestown, N. Y., $68.

Van Dorn Iron Works Co., Cleveland, Ohio $75.

The General Fireproofing Co., Washington, D. C., $94.

The H. H. Shults Co., Gowando, N. Y., $98.

The Bernstein Mfg. Co., Philadelphia, Pa., $110.

Medford, Ore., Wall Covering.

The following bid was received by the supervising architect, Washington, D. C., February 8 for furnishing wall covering for the court room of the U. S. post office and court house at Medford, Ore.:

W. B. Moses & Sons, Washington, D. C., $217.30; 45 days.

Millwork for Ancon Laundry.

The purchasing officer of the Panama Canal will soon call for bids for furnishing the necessary millwork for the Pacific terminal laundry at Ancon. The material wanted consists of sash, doors, casement and transom sash, screen doors, panel doors, partitions, and sliding doors. All lumber for the manufacture of the material is to be of "A" grade of yellow pine.

Chico Cal., Painting

The contract for painting plastering in the U. S. post office at Chico, Cal., has been awarded to Vincent J. Donovan, San Francisco, Cal., at $1,950; time 60 days.

HALLS AND SOCIETY BUILDINGS.

STOCKTON, SAN JOAQUIN CO., CAL.—Lodge Hall and theatre, 5 story and base. Class A construction. Cost not stated. Architect Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owners, Stockton Moose Hall Association Location, San Joaquin between Main and Market streets, covering an area of 150 by 75 feet. Besides the hall and office the building will contain a large theatre. Plans have not been started and construction details are not available. Further mention will be made of the work.

STOCKTON, SAN JOAQUIN CO., CAL.—Lodge room alterations, 2 story and base, brick, cost not stated. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owners, Turn Verein. Location, 110 North Hunter St. Work will include steel, brick, carpentry, mill work, plastering, painting, plumbing and electric work. Plans are being prepared.

HOSPITALS

SAN FRANCISCO.—Hospital clinic and nurses' home, 2 and 3 story and base. Class A construction. Cost not stated. Architect. Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. Mr. Hobart will shortly start plans for these two buildings which will practically complete the new group of hospital buildings under construction at 4th and Parnassus avenues. Details will be given of the work as the plans progress.

SAN FRANCISCO — Hospital addition, 1 story and base, reinforced concrete. Cost not stated. Architect, Constructing Quartermaster's Office, Fort Mason. Owners, United States Government. Bids will be received until February 28th for the construction of a Bacteriological Building at the Letterman General Hospital ,in the Presidio. Plans can be secured from the office of the Constructing Quartermaster. An official proposal appears in another column of this issue.

SAN FRANCISCO.—Hospital heating and ventilating. Cost not stated. Architect, Hermann Barth, 12 Geary St. S. F. Owners, City and County of San Francisco. Bids will be opened by the Board of Public Works on February 25th for installing the heating and ventilating systems in the southeast wing of the new San Francisco Hospital. Plans can be secured from the architect.

NAPA, NAPA CO. CAL.—Hospital cottage 1 story concrete and frame, $11,868. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. George W. Boxton & Son, Hearst Bldg., S. F. presented the low figure for the construction of alterations to the South Bay Cottage at the Napa State Hospital. He will be awarded a contract. A complete list of the bids received will be found under the heading of Marin-Contra Costa anad Sonoma Counties in this issue.

SACRAMENTO, CAL.—Hospital nurses home, 3 story and base, reinforced concrete, $35,970. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. William C. Keating of Sacramento presented the lowest bid for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital group, 1 and 3 story, reinforced concrete and brick, Story Bldg., L. A. Owners, San Bernardino County. W. E .Keir Const. Co., San Diego, submitted the low figure at $199,900 for the general construction of the County Hospital group, Los Angeles. Other bids submitted were: General Construction: C. McNeill, Santa Ana, $215,630; Wm. C. Crowell, Pasadena, $220,968; Cresner Mfg. Co., Riverside, $211,489; F. L. Somers Co., $259,675. Plumbing: Thos. Haverty Co., $30,850; J. T. Newell, $19,200; Lohman Bros., $15,111; Arthur Hess, $19,180. These are all Los Angeles firms. Electric Work: Field Elec. Co., San Bernardino, $11,210. All figures were taken under advisement.

Contracts Awarded.

LOS ANGELES, CAL.—Hospital clinic, 1 and 2 story and base, reinforced concrete, $22,000. Architect, Arthur B. Benton, 114 North Spring St., L. A. Owner, O. T. Johnson Contractor, R. S. Martin, 1509 North Marguerita St., L. A. Contract price, $22,000.

HOTELS

SAN FRANCISCO.—Hotel alteration, 6 story, Class B, cost not stated. Architect, G. E. Gottschalk, Phelaan Bldg., S. F. Owners, Terminal Hotel Co. Work will consist of rearranging the top floor of the building for a high class Turkish bath house. Considerable tile and marble work, plumbing and steam fitting will be required. Plans are being prepared.

STOCKTON, SAN JOAQUIN CO., CAL. — Hotel alteration, 3 story, brick. Cost not stated. Architect, Franklyn E. Warner, San Joaquin Bldg., Stockton. Owners, Fontana & Delucchi. Location, Market near San Joaquin St. The present first floor contains a theatre which will be torn out and a hotel office and lobby installed. Upper floors will be altered so as to give 56 rooms and a number of baths. Work will include plastering, brick work, mill work and carpentry, electric work, plumbing and painting. The plans are complete and figures are being taken.

Contracts Awarded.

AUGA, CALIENTI, SONOMA CO. CAL.—Resort hotel, 1 story anad base, stone, $21,000. Architects O'Brien Bros., 240 Montgomery St., S. F. Owners, Auga Calienti Hotel. Contractor, A. N. Hildebrand, Elks Club, Santa Rosa Contract price, $21,000.

IRRIGATION PROJECTS

REDDING, SHASTA CO., CAL.—Irrigation project, $480,000. Engineer, H. H. Henderson, Redding. Owners, Anderson-Cottonwood District. Plans and specifications for the coonstruction of the Anderson-Cottonwood irrigation system are ready and bids will be advertised for within ten days. It has been decided to construct the project in five units: First, the headgate and tunnel; second and third, the excavation of the main canal in two subdivisions; fourth, the excavation of the laterals; fifth, construction of the syphons and the concrete headgates. Separate bids will be asked for each unit, and construction commenced by May 1st. At the intake there will be a 2,400 ft. tunnel, running under the cemetery east of Redding. This tunnel will be nine feet square, concrete lined with arched top. The tunnel will be of capacity to carry 400 second feet of water. The main canal will be 39 miles in length, and 46 feet wide and 6 feet deep at the mouth of the tunnel. Churn Creek Bottom, on the east side of the Sacramento River, will be fed by a lateral diverging from the main canal a half mile below the County Hospital. Water will be taken across the river in a cast iron syphon, 70 feet long and 36 inches in diameter. There will be eleven syphons in all, as the main canal crosses several streams. Drop gates and farmers' side gates will be of concrete construction as will bridges on county roads.

SEATTLE, WASH.—Irrigation project, $100,000. Engineer, Thomas Watson, Globe Bldg., Seattle. Owners, Happy Valley Irrigation District. Thomas Watson is preparing plans for the watering of 13,000 acres of land in the Happy Valley Irrigation District near Sequim, Wash., which will be ready for contractors some time in March. The plans call for 19 miles of main ditch. A 5,200 ft. syphon is also included across one of the valleys, this having a 625 ft. head. Otto Sinders is president of the district. Further men-

tion will be made of this work when bids are called.

Contracts Awarded.

MODESTO, STANISLAUS CO., CAL. Laying concrete pipe, $4,452. Engineer, Chief Engineer Hermann, Modesto. Owners, Modesto Irrigation District. Contractor, George A. Bos, Hearst Bldg., S. F. Contract price, $4,452.

LIBRARIES

LOS ANGELES, CAL. — Library, 1 story and base, hollow tile, $35,000. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owners, City of Los Angeles. Location, southeast Workman and and Avenue 26. Will contain three reading rooms, stack room and office for the library. Basement is arranged for lecture room and auditorium. Interior finish pine and hardwood with marble floor. Steam heat, vacuum cleaning. Metal book stacks. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

Contracts Awarded.

TURLOCK, STANISLAUS CO., CAL. —Library, 1 story and base, brick and concrete, $8,350. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, Town of Turlock. Contractors, McGregor & Knapp, Turlock. Contract price, $8,359. Other bidders were, Tornell & Nelson, at $8,689; George Bobst, $8,790; Philbrick & Colvin, $9,200.

POST OFFICES.

ABERDEEN, WASH.—Postoffice, 2 story and base, brick, stone and steel, cost not stated. Architect, Acting Supervising Architect James A. Wetmore, Washington, D. C. Owners, United States Government Bids will be received until March 22 at 3 p. m. for the construction, complete, of the new federal building. Plans and specifications can be secured from either the Supervising Architect at Washington, D. C., or from the custodian of the site at Aberdeen.

POWER IMPROVEMENTS

EUREKA, HUMBOLDT CO., CAL.—Municipal water system, office and shop 1 story reinforced concrete. $11,000. Architect, Burke, Eureka. Owners, City of Eureka. Bids for the construction of a shop and office building for the public works department were opened at the session of the city council as follows: Thos. Englehart, 639 16th St., Eureka, $12,597; Poland & Robinson, $13,160; Elsemore & Jacobs, 422 "H" St., Eureka, $11,629; Mercer-Fraser Co., "G" and "I" streets, Eureka, $13,394; Newton Ackerman, 128 5th St., Eureka, $12,897. A contract will be awarded shortly.

TULARE, TULARE CO., CAL. — Pumping stations, 3, reinforced concrete Cost not stated. Engineer, Engineering Dept. Associated Oil Co., S. F. Owners, Associated Oil Co. The Associated Oil Co. is preparing to erect three pumping plants, one to be located just south of Tulare, on its pipe line between the Kern fields and Port Costa, Contra Costa County. The present plants will be enlarged.

RAILROAD CONSTRUCTION AND EQUIPMENT.

Contracts Awarded.

FRESNO, FRESNO CO., CAL.—Railroad extensions Cost not stated. Engineer's name name not given. Owners, Fresno Interurban Railway Co. Mahoney Bros., Hobart Bldg., San Francisco, will commence work at once on the construction of a seven mile extension to the Fresno Interurban Railway from Barton Vineyard to Kutners Colony. Later a five-mile extension to Clovis and a twelve-mile extension to Centerville will be built. Lee H. Landis at Hotel Fresno, represents the company.

RESIDENCES.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, C. H. Lane, 322 22nd avenue, S. F. Location, west 12th avenue south of Clement. Will contain six rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $2,000 each. Architect, none. Owners, McArthur Bros., 1560 Fell street. Location, north 19th avenue west of Douglass. Each house will contain five rooms and bath. Interior finish pine and redwood. Some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 3 story and base, frame $10,000. Architect, F. Holberg Reimers, 2145 Shattuck avenue, Berkeley. Owner, E. H. Fisher. Location, Virginia street. Will contain nine rooms, two baths and sleeping porches. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, east Claremont opposite Hillegass. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BEKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000 Architect, none. Owner, C. E. Sinclair, 5333 Locksley avenue, Oakland. Location, Oxford street. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, P. D. Leman, 1622 Ashby avenue, Berkeley. Location, east Oxford north of Los Angeles. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, B. M. and H. G. Patrick, 2001 Hopkins avenue, Berkeley. Location, west Edwards north of Channing Way. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architect, Warren C. Perry, 2636½ Dwight Way, Berkeley. Owner, Warren C. Perry. Location, Benvenue avenue. Will contain ten rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster on metal lath. Plans complete and figures being taken.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, Alfred Crods, 40 Bowie street, Piedmont. Location, west Grand north of Oakland. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $5,000. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner's name withheld. Location Thousand Oaks Tract. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster on metal lath. Plans complete and figures being taken.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, A. J. Sowles, 2804 Madison street, Fresno. Location, Bartlett Heights. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior cavered with cement plaster and rustic. Plans complete and work by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL. —Residence, 2 story and base, frame, $3,500. Architect, Alvin J. Stern, 306

11th street, Oakland. Owner, W. Adams, Stockton. Will contain nine rooms, two baths and sleeping porche. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with shakes. Plans complete and figures being taken.

BURLINGAME, SAN MATEO CO., CAL.—Residence, 2 story and base, frame, $60,000. Architect, C. E. Gottchalk, Phelan Bldg., S. F. Owner, Edwin Christenson. Location, Burlingame Heights. Will contain sixteen rooms, six baths and sleeping porches. Several outbuildings are also planned which will include servants' quarters, laundry, stables and garage. Interior finish hardwood and white enamel. Hardwood and tile floors. Hot water heating system and hot water circulating system. Bath rooms tile and equipped with showers. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans being prepared.

MT. DIABLO, CONTRA COSTA CO., CAL.—Residence, 2 story and base frame, $17,500. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. N. Burgess. Will contain twelve rooms, three baths and sleeping porches. A separate garage will also be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water circulating system. Bath rooms tile. Exterior covered with shingles. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, W. G. Gilligan, 1675 12th avenue, S. F. Owner, O. L. Reese, 1552 9th avenue, S. F. Location, west 8th avenue north of Lawton. Will contain five rooms, bath and basement garage. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,600. Architect, none. Owner, M. C. Rench, 1427 5th avenue, S. F. Location, east 11th avenue south of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, C. A. Hall, 1318 5th avenue, S. F. Location, east 12th avenue, south of Balboa. Each will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residences, 2, 2 story and base, frame, $3,500 each. Architect, none. Owner, C. M. MacGregor, 470 13th street, Oakland. Locations, north East 38th west of Beamount. Each will contain seven rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, James H. Young, 702 Aileen street, Oakland. Location, west Dale between Nova and Fairveiw. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $2,500 each. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, John Whalen. Location, Santa Clara avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Lahor.

OAKLAND, CAL—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, C. M. Macgregor, 470 13th street, Oakland. Location, northwest corner of East 38th and 14th avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire place. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Louis O. Hanson, 1128 The Alameda. Location, east Bonita south of Rose. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

REDWOOD CITY, SAN MATEO CO., CAL.—Residence alteration and additions, frame, $20,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owner, Mrs. Harris. Work will consist of both interior and exterior alteration and will include plastering, interior partitions, painting, plumbing, electric work, hardwood floors and trim. Plans are being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, J. Norris, 2828 Richmond avenue, Oakland. Location, east College avenue south of Bryant. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire plac and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

LOS ANGELES, CAL. Residence, 2 story and base, brick. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, A. Normandi. Location, Wellington Square Will contain ten rooms, three baths and conservatory. A separate garage will be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood and tile floors. Hot water heating system, open fire places, vacuum cleaning and hot water circulating system. Mantels tile and brick. Bath rooms tile Exterior faced with pressed brick. Plans being prepared.

MONTECITO, SANTA BARBARA CO., CAL.—Residence, 1 story and base, hollow tile. Cost not stated. Architects, Childs & Smith, 1263 Peoples Gas Bldg., Chicago. Will contain 16 rooms, six bath rooms and sleeping porches. Separate garage. Interior finish, pine, hardwood and white enamel. Hardwood floors throughout. Central heating system, open fire places and tile or brick mantels. Bath rooms, tile. Vacuum cleaning. Hot water circulating system. Exterior faced with cement plaster. Plans complete and contract to be let shortly.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owners, Anthony & Heyer, Dalziel Bldg., Oakland. Location, west Walla Vista south of Sunnyslope. Will contain five rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base. Class A construction. $150,000. Architect, Frederick L. Roehring, American Bank Bldg., L. A. Owner, E. J. Marshall. Contractor, A. C. Brandt, 394 Worcester Ave., L. A. Contract price, $150-000.

SCHOOLS

COVELO, MENDOCINO CO., CAL.—School, 1 story, frame. Cost not stated. Architect, Department of Indian affairs, Washington, D. C. Owners, United States Government. Plans have been forwarded to the Indian Warehouse, 608 Mission St., S. F. for a frame Indian school to be erected on the Round Valley Reservation in Mendocino County. Bids for this work close on March 9th at 9 a. m. Plans can be had from the Agent in charge of the Indian Warehouse. An official proposal appears in another column of this issue.

WASCO KERN CO., CAL.—School 1 story and base. Class C construction. $30,000. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco School District. Will contain six class rooms and assembly hall. Interior finish, pine with maple floors in the class rooms. Central heating system. Blackboards, modern school plumbing and electric work. Exterior faced with cement plaster. Plans being prepared.

ELDRIDGE, SONOMA CO., CAL. School nursery, 1 story and base, frame and concrete. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received until March 14th at noon for the construction of a girl's nursery building at the Sonoma State Home for Girls.

Plans can be secured from the State Department of Engineering An official proposal appears in another column of this issue.

BREA, ORANGE CO., CAL.—School, 1 story and base, hollow tile, $55,000. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, Brea School District. Will cover an area of 250 by 175 feet. Will contain a number of class rooms and a large auditorium. Interior finish pine with maple floors. Central heating system. Exterior faced with cement plaster. Plans complete and figures being taken. L. H. Van Hoorebeke is clerk of the Board of School Trustees and will receive all figures. Separate bids for general construction, plumbing, heating, ventilating, electric work, painting and fixtures.

LONG BEACH, LOS ANGELES CO., CAL.—Schools, two 1 story and base, Class C construction. Cost not stated. Architect W. Horace Austin, 26 Elm Ave., Long Beach. Owners, City of Long Beach. Each will contain four class rooms and an assembly hall. Interior finish, pine with maple floors. Modern school plumbing and electric work. Exterior faced with pressed brick or cement plaster. Plans being prepared.

SEATTLE, WASH.—College addition, 3 story and base, reinforced concrete, $170,000. Architects, Charles H. Bebb and Carl Gould, Denny Bldg., Seattle. Owners, University of Washington. Will cover an area of 50 by 200 feet. Interior finish, pine and hardwood with considerable tile and marble. Steam heat and oil burning equipment. Exterior faced with cement plaster. Plans complete and figures being taken. Bids close March 25th. Plans can be secured from the architects

Contracts Awarded.

BERKELEY ALAMEDA CO., CAL.—College library, and etc., cost as follows. Architect, John Galen Howard, 604 Mission St., S. F. Owners, Regents of University of California. J. D. Hannah, Monadnock Bldg, is still taking subfigures on practically all parts of the work, included in this contract for the general construction of the U. of C. library. His contract is for approximately $195,000 F. W. Wentworth & Co., secured the contract for hook stacks and metal furniture for the library on their bid of $100,675. The Turner Co. was awarded the contract for plumbing on the same building at $8,215. Ne Page-McKinney Co. secured the contract for electric work on the Benj. Ide Wheeler Hall at $6,089 and the Turner Co. the contract for the heating and ventilating on the same at $51,180. The California Granite Co. was awarded a contract for a granite balustrade for the Sather Tower at $22,250.

SEWERS, STREET WORK & WATER SYSTEMS

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, County Surveyor, Oakland. Owners, Alameda County. At the last meeting of the County Supervisors the extension of A street, San Leandro, was authorized, and plans ordered. An undergrade crossing on the Sunol-Pleasanton road was also ordered. Overhead crossings on the Altamont road were also ordered. Further mention will be made of this work when bids are are called.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed resolutions of intention to improve Galindo street between 35th and Harrington avenues; also to improve East Eighth street from Fruitvale avenue to 37th avenue. Bids on this work will be called for shortly.

SAN LEANDRO, ALAMEDA CO., CAL.—Street paving, curbs, etc. Cost not stated. Engineer, Town Engineer, San Leandro. Bids will be opened on March 6th at 9 p. m. for work in accordance with the following resolution: That the easterly half of San Leandro street between the S line of Joaquin avenue and a line drawn parallel thereto and distant 143.25 feet therefrom, be graded, curbed with redwood, paved with a macadam pavement and sidewalked with an oil-macadam sidewalk 10 feet in width.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Plans and specifications were approved at the last meeting of the Board of Supervisors and bids have been ordered received up to March 6th for division 9, section 6, Bakersfield-Glenville road; division 10, section 8, Bakersfield-Mojave road, and division 7, section 4, Bakersfield-Taft road. Plans may be had from the office of the County Highway Commission.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids were opened at the last meeting by the the Board of Supervisors for the construction of the unit of the county improved highway between this city and Hardwick. There were five bids submitted as follows:

Thompson Bros., 1514 H street, Fresno—Completed road bed, 50c per cubic yard; asphaltic concrete base, 2½ in thick, 2.7c per square foot; Warrenite wearing surface, 1¼c per square foot; guard fence, 50c per lineal foot.

Eaton & Smith, 407 11th street, San Francisco—Completed road bed, 40c per cubic yard; asphaltic concrete base, 2⅛c per square yard; Topeka wearing surface, 1⅞c per square foot; guard fence, 50c per lineal foot.

Raisch Improement Co., 1108 Crocker Bldg., San Francisco — Completed road bed, 57c per cubic yard; asphaltic concrete base, 2.44c per square foot; Topeka wearing surface, 1.55c per square foot, guard fence, 40c per lineal foot.

Hart & Henry Construction Co.—Completed road bed 40c per cubic yard; asphaltic concrete base, 2½c per square foot; Topeka wearing surface, 1½c per square foot; Warrenite wearing surface, 3.4c per square foot; guard fences, 50c per lineal foot.

Blanchard & Earlhart — Completed road bed, 60c per cubic yard; asphaltic concrete base, 2½c per square foot; Topeka wearing surface, 1.16c per square foot; guard fence, 40c per lineal foot.

Owing to the closeness of the bids on the different items, the acceptance of the low bid was laid over until until the next meeting.

HILLSBOROUGH, SAN MATEO CO., CAL.—Storm water sewer. Cost not stated. Engineer, Town Engineer, 202 Hearst Bldg., S. F. Owners, Town of Hillsborough. Bids will be received until March 7 at 5 p. m. for the construction of a storm sewer of 10-inch vitrified salt-glazed pipe from a point on the west side of Walnut avenue 340 feet southerly from the creek crossing said Walnut avenue between Floribunda and Willow avenues to said creek together with necessary grading, backfilling and terminals.

LARKSPUR, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Larkspur. Owners, Town of Larkspur. At the last meeting of the Town Trustees a resolution was passed ordering bids received for street work on Olive avenue. Bids close March 7th. Plans may be had from the Town Clerk at Larkspur.

WILLITS, MENDOCINO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Willits. Owners, City of Willits. The most important matter discussed by the Town Trustees at their meeting last Monday night was the paving of South Main street between the Broaddus creek bridge and the southerly boundary of the Daugherty addition. It is proposed to pave it full width as far as Oak avenue and a twenty-foot strip in the center of the street south of that intersection. Definite action was deferred until the next meeting. Further mention will be made of this work.

REDWOOD CITY, SAN MATEO CO., CAL. — Culvert, reinforced concrete. Cost not stated. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Bids will be opened on March 6th at 10 a. m. for the construction of a reinforced concrete culvert on Britan avenue at a point about 1,000 feet southeasterly from Brittan Road, located in the Second Road District.

SALINAS, MONTEREY CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor, Salinas. Owners, Monterey County County Surveyor Cozzens reports that plans and specifications for the macadam road which is to built from Hatton's Corners to Monterey, are nearing completion. The plans will probably be taken up by the Board of Supervisors next month.

TURLOCK, STANISLAUS CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Turlock. Owners, City of Turlock. City Engineer Luyster was instructed to prepare an estimate of cost for the sewer construction of about 1800 feet on Park street at the last meeting of the City Council. Plans for this work will be ordered shortly.

MADERA, MADERA CO, CAL.—Road construction. Cost not stated. Engineer, County Surveyor, Madera. Owners, Madera County. Bids will be received on March 8th at 2 p. m. for grading Frizell Road, Fourth Supervisor District, fram station "O" to station 126-70.

TURLOCK, STANISLAUS CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Turlock Owners, City of Turlock. At the last meeting of the City Council it was decided to have Lander avenue improved by laying a 16-foot of paving to the southern extremity, and the City Engineer was instructed to prepare plans and specifications for the work. Bids on this work will be called for shortly.

MODESTO, STANISLAUS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. At the County Supervisors' last meeting County Surveyor Edgar Annear submitted plans for concrete highway work on four miles of the McHenry road and one mile of road leading out of Newman. The plans for the two roads were accepted and bids for their construction will be opened on Tuesday, March 14th. The McHenry road will form the connecting link with the Sonora lateral of the state highway, while the Newman work will provide for a strip of road north of the town. Plans may be had from the County Clerk at Modesto.

Contracts Awarded.

SANTA CRUZ, SANTA CRUZ CO., CAL. — Sewer construction, $2,214.20. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Contractor, W. J. Tobin, 735 Filbert street, Oakland. Contract price, $2,214.20.

LOS ANGELES, CAL.—Street paving, $18,572. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Coast Construction Co., 353 South Hill street, L. A. Contract price, $18,572.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractor, C. E. Blanchard and Karl Ebrhart, 660 Market street, S. F. Contract price not stated.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street improvement, $2,551.42. ngineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. Contractors, Western Sand and Rock Co. Contract price, $2,551.42.

UKIAH, MENDOCINO CO., CAL.—Road construction, $1,050. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. Contractor, Thomas Ellison, Ukiah. Contract price, $1,050.

STORES AND OFFICES.

SAN FRANCISCO—Offices, 8 or 10 stories and base. Class A construction. Cost not stated. Architects, Bliss & Faville, Balboa Bldg., S F. Owners, Southern Pacific Co. Location, south Market between Spear and Stewart. Will occupy approximately one-half block. Complete steel frame, brick and concrete walls and concrete floor. Entire building to be occupied by the owners Details of construction can started.

SAN FRANCISCO—Lofts, 4 story and base. Class C construction, $37,725. Architects, Wright & Rushforth, 354 Pine street, S. F. Owner, S. S. Parsons. Location, east Beale north of Mission, covering an area of 92 by 137½ feet. First floor stores and upper floors lofts. Interior finish pine. Steam heat and elevator service. Metal window sash and frames. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and contracts to be let at once.

SAN FRANCISCO—Stores and lofts, 2 story, mezzanine floor and base, reinforced concrete, $18,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name withheld. Location, west Mission between 23rd and 24th streets, covering an area of 25 by 120 feet. Interior finish pine and some hardwood, marble and tile. Patent store fronts. Marble bases and inlaid display windows. Elevator service. Exterior faced with cut stone or marble. Plans complete and figures to be called for at once.

SAN FRANCISCO—Stores, 2 story and base. Class A construction. Cost not stated. Architect, William C. Hays, First National Bank Bldg., S. F. Owner's name withheld. Location, north Sutter west of Powell, covering an area of 27 by 137½ feet. Designed for art studios. Interior finished in pine, hardwood and enamel. Hardwood floors. Patent store fronts and marble bases. Exterior faced with pressed brick trimmed with terra cotta. Plans being figured.

OAKLAND, CAL.—Store, 1 story, frame, $2,500 Architect, none. Owner, L. G. Hudson, 1041 Everett avenue, Oakland. Location, northeast corner of Hopkins and Cannon street. Will contain one small store and office. Interior finish pine. Patent store fronts. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN RAFAEL, MARIN CO., CAL.—Department store and apartments, 2 story and base, brick and steel, $40,000. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, Herzog & Rake. Location, northwest corner of 4th and B streets, covering an area of 98 by 125 feet. Entire first floor to be occupied by the owners. Upper floor arranged for fourteen apartments of two and three rooms. Interior finish pine and white enamel. Hardwood and tile floors. Steam heat, oil burning plant and hot water system Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded

SAN FRANCISCO—Store and lofts, 2 story and base. Class C construction, $18,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Contractor, Val Franz, 185 Stevenson street, S. F. Contract price, $18,000.

CALEXINCO, IMPERIAL CO., CAL.—Stores, 1 story and base addition. Class C construction, $22,000. Architect, Samuel B. Zimmer, El Centro. Owners, Weed Bros. Contractor, J. W Smith, Calexico. Contract price, $22,000.

SEALED PROPOSALS

PROPOSALS FOR EARTH WORK.

EARTHWORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Fort Laramie, Wyo., until **2 o'clock p. m.** March 10, 1916, for earthwork on about 5½ miles of main canal Fort Laramie unit, North Platte project, Nebraska-Wyoming, involving the excavation of approximately 81,000 cubic yards of material. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Laramie, Wyo. W. A. RYAN, acting director.

PROPOSALS FOR CONCRETE WORK.

CONCRETE WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service at Fort Laramie, Wyo., until **2 o'clock p. m. March 10, 1916**, for the construction of various structures on about 10 miles of Fort Laramie Canal, North Platte project, Nebraska-Wyoming, involving approximately 15,000 cubic yards of excavation for structures and 3,350 cubic yards of concrete in place. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the U. S. Reclamation Service, Washington, D. C., Denver, Colo., or Fort Laramie, Wyo. W. A. RYAN, acting director.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Supervising Architect's Office, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. March 22, 1916**, for the construction complete (including mechanical equipment and approaches), of the U. S. post office at Aberdeen, Wash. Drawings and specifications may be obtained from the custodian of site at Aberdeen, Wash., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1015 — Proposals for Staybolt Iron, Steel Cable, Steel or Iron Pipe, Nails, Boat Spikes, Sheet Copper, Brass Tubing, Lead Pipe, Sheet Lead, Grip Nuts, Missing Links, Blacksmiths' Punches, Screwsyes, Files, End Mill Cutters, Hinges, Foot Bolts, Chain Blocks, Grindstones, Coal Baskets, Corn Brooms, Ladders, Pick Handles, Wagon Spokes, Rubber Tires, Squirt Cans, Lantern Globes, Brass Bed Knobs, Railway Flags, Manila Rope, Twine, Waste Baskets, Penholders, Ledger Books, Paper, Cardboard, Manila Tags, Silica Sand, Salt-water Soap, Ash Soda, White Lead, Rubbing Varnish, Chrome Yellow, Yellow Ocher and Redwood. Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 3, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1015) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineer, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

OFFICE Constructing Quartermaster, Fort Mason, Cal., February 1, 1916. —Sealed proposals in triplicate for constructing Second Story Addition to Bacteriological Laboratory, including plumbing, electric wiring and fixtures, at Letterman General Hospital, will be received here **until 11 a. m. February 28th, 1916**, and then opened. Further information on application. (*)

DEPARTMENT OF THE INTERIOR, U. S. INDIAN SERVICE.

PROPOSALS FOR SCHOOL BUILDINGS ROUND VALLEY INDIAN SCHOOL.

COVELO, CAL., Feb. 5, 1916

SEALED proposals, plainly marked on the outside of the sealed envelope "Proposals for school buildings," and addressed to the Superintendent of the Round Valley Indian School, Covelo, California will be received until **9:00 o'clock a. m., March 9, 1916**, and then opened, for furnishing all the labor and materials required in the construction and completion of one frame day school building No. 63, at Yokaia Indian Rancheria, seven miles southeast of Ukiah, California; one frame employees' quarters No. 87, one frame day school building No. 83, and three frame outhouses No. 15, for Ukiah Day School, near Ukiah, California, in strict accordance with the drawings and specifications furnished therefor by the Office of Indian Affairs, and which may be examined at the Post Office, Ukiah, California, U. S. Indian

Warehouse, 608 Howard street, San Francisco, and at the Round Valley Indian School.

Bids must be submitted in accordance with the form attached to the plans and specifications. The right is reserved to reject any and all bids.

E. A. HUTCHISON,
Superintendent. (*)

Engineering Experiment Station Issues Bulletin.

URBANA, ILL., Jan. 26, 1916.

"Magnetic and Other Properties of Iron-Silicon Alloys, Melted in Vacuo," by T. D. Yensen has been issued as Bulletin No. 83 of the Engineering Experiment Station of the University of Illinois. This bulletin describes methods employed in producing a number of iron-silicon alloys which the author has subjected to mechanical and electric tests.

It is shown that silicon increases the mechanical strength of iron in almost direct proportion to the amount added, until the maximum strength is reached with a silicon content of about 4.5 per cent. The elastic limit of this alloy was shown to be 94,000 pounds per square inch and its ultimate strength 105,000 pounds.

With regard to magnetic properties the vacuum alloys are shown to possess most remarkable characteristics. The maximum permeability is above 50,000 and the hysteresis loss is only one-eighth to one-third of that for commercial silicon steel. The specific electrical resistance increases about 11 microhms for each per cent of silicon.

Copies of Bulletin No. 83 may be obtained gratis upon application to W. F. Goss, Director, Engineering Experiment Station, Urbana, Illinois.

Government Opens a Free Employment Bureau for Farmers and Others Seeking Help in San Francisco.

The Government has opened a Free Employment Bureau and Labor Exchange in the U. S. Appraiser's Building, San Francisco, for the purpose of bringing the job and the jobless together without cost to employer or workman.

Every post office is supplied with blank forms of application for the benefit of farmers and others who seek help, and the man who wants employment. These blanks are transmitted through the mail to the office of the Bureau in San Francisco without postage. This service is free to the employer and employee. Applications can be made with the blank forms, by telephone, letter or personal call.

Furthermore, it is the object of the Bureau to promote a beneficial distribution of the unemployed in the congested communities throughout the country and bring the landless man to the manless land. It is also a division of information for the benefit of the prospective settler, the farmer in need of help, and the person seeking work.

All applications are honored by registration, and an effort made to supply the demand.

A corps of efficient officers have been detailed by the Commissioner of Immigration at this port, to attend to this work exclusively.

The Division is a branch of the Bureau of Immigration, under the supervision of the U. S. Department of Labor, Washington, D. C.

Chester B. Loomis, M. E.
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Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing
Reports.
419 Wilcox Building
Los Angeles, California

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

QUOTATION OF C. I. F. PRICES.

In connection with the quotation of c. i. f. prices for export, a prominent manufacturing and exporting firm has called the attention of the Bureau of Foreign and Domestic Commerce to the fact that as there is so much uncertainty with respect to over-sea shipping at present, and ocean freight rates are changing so frequently there is a very considerable risk in undertaking to quote a c. i. f price. To make such a quotation at present, without a protective qualification against a further advance in the ocean freight rate would in the opinion of this firm, be not altogether safe. It is suggested that under existing conditions the better and safer way would be for the manufacturer or shipper to make quotation for delivery f. o. b. steamer New York or wnatever the port of shipment may be, and advise his foreign customer regarding the ocean freight rate obtainable at that time.

NEW WATERWORKS SYSTEM FOR BARRANCA.

The city of Barranca, in the province of Chancay, Peru, is to have a new waterworks system, according to a recent law in El Peruano. The departmental board of Lima is authorized to contract a loan of $18,000 for the installation of a drinking water and drainage system. This loan will be covered by an issue of bonds, paying not more than 9 per cent annual interest and amortization. Complete details concerning the bonds will be specified later in an executive decree.

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.
Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
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FAST ELECTRIC TRAINS TO Sacramento O&E

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Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:30A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. F.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

APARTMENT HOUSE—3 story and base, frame, $14,000. San Francisco. Architect, none. Owner, Michael Dempniak, 728 Page street, S. F. Location, west Leavenworth north of Vallejo, covering an area of 25 by 81 feet. Will contain six apartments of three rooms and bath. Interior finish pine and elm panels with some hardwood floors. Steam heat and a hot water supply. Wall beds. Composition floors in bath rooms. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $20,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, Leavenworth street. Will contain 14 apartments of two and three rooms. Interior finish pine and hardwood veneer. Some hardwood floors. Steam heat and hot water supply. Bath rooms tile and composition floors. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans being prepared.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, C. H. Lane, 323 22nd avenue, S. F. Location, west 12th avenue south of Clement. Will contain six rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $2,000 each. San Francisco. Architect, none. Owners, McArthur Bros., 1560 Fell street. Location, north 19th avenue west of Douglass. Each house will contain five rooms and bath. Interior finish pine and redwood. Some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

APARTMENT HOUSE—4 story and base. Class C, $40,000. San Francisco. Architect, J. C. Hladik, Monadnock Bldg., S. F. Owner's name withheld. ocation, south Bush east of Hyde. Will contain a number of two, three and four room auartments. Interior finish pine and elm panels. Some hardwood floors. Steam heat, automatic elevator, oil burning plant and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame, $17,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, J. Lauray and J. Couraguet. Location, Leavenworth north of Broadway. Will contain fifteen suites of two and three rooms. Interior finish pine and elm. Some hardwood floors. Steam heat. Hot water supply. Bath rooms tile. Wall beds. Eterior covered with cement plaster and rustic. Plans being prepared.

RESIDENCE.—2 story and base, frame, $2,500. San Francisco. Architect W. G. Gilligan 1675 12th Ave., S. F. Owner, O. L. Reese, 1552-9th Ave. S. F. Location, west 8th Ave., north of Lawton. Will contain five rooms, bath and cement garage. Interior finish, pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE. — 2 story and base, frame, $3,600. San Francisco. Architect, none. Owner, M. C. Rench, 1427 5th Ave., S. F. Location, east 11th Ave., south of Balboa. Will contain six rooms, bath and basement garage. Interior finish, pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room, tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $7,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell St., S. F. Owner, J. Perlite. Location, east Leavenworth, north Vallejo. Will contain two residential flats of five and six rooms with bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms, tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS.—2 story and base, frame, $5,000. San Francisco. Architect, none. Owner, Anna K. Johanson, 1832 Franklin St., S. F. Location east 10th avenue, south of Geary. Will contain two flats of five and six rooms. Interior finish pine and elm with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms, composition. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS.—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Thomas Burke, 605 Arguello Boulevard, S. F. Location southwest Anza and Arguello. Will contain two flats of five and six rooms with baths and sleeping porches. Interior finish, pine and white enamel, with some elm panels. Hardwood floors. Automatic water heaters. Open fire places and tile or brick mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLAT AND STORE—2 story and base, frame, $3,500. San Francisco. Architect, Joesph A. Leonard, 85 Cerritos Ave., S. F. Owners, Urban Realty Co. Location, Ocean avenue east of Victoria. Will contain one store on the first floor and a six room flat above. Interior finish, pine and elm. Hardwood floors Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

CITY HALL FURNITURE, ETC.—Cost as follows. San Francisco. Owners, City and County of San Francisco. The following contracts were awarded at Friday's meeting of the Board of of Public Works. Award contract to W. & J. Sloane at $1,525 for furnishing draperies in the Mayor's office in new City Hall. Award contract to Jas. B. McSheehy for furnishing and installing special furniture in Registrar's office in new City Hall at $1,228.

FACTORY ADDITION—5 story and base, reinforced concrete, $200,000. San Francisco. Architect, Kahn, Detroit, Mich. Owners, Ford Motor Co. Plans and specifications for the five-story and basement reinforced concrete addition to the Ford Motor Co.'s plant at 21st street and Treat avenue have arrived from Detroit and will be put out for figures shortly. Mr. Kahn, of MacDonald & Kahn, Rialto Bldg., has charge of the work. All bids will go direct to the Ford Manager, Mr. Lund.

FACTORY—3 story and base, frame, $40,000. San Francisco. Architect, none. Owners, Rudgear-Merle Co., 198 Bay street, S. F. Location, northeast Bay and Powell streets, covering an area of 206 by 275 feet. Concrete first floor. Sprinkler system. Exterior covered with shiplap. Plans complete and work to be done by Day Labor.

HOTEL ALTERATION — 6 story. Class B. Cost not stated. San Francisco. Architect G. E. Gottschalk Phelan Bldg., S. F. Owners, Terminal Hotel Co. Work will consist of rearranging the top floor of the building for a high class Turkish bath house. Considerable tile and marble work, plumbing and steam fitting will be required. Plans are being prepared.

HOSPITAL CLINIC AND NURSES' HOME—2 and 3 story and base. Class A construction. Cost not stated. San Francisco. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. Mr. Hobart will shortly start plans for these two buildings which will practically complete the new group of hospital buildings under construction at 4th and Parnassus avenues. Details will be given of the work as plans progress.

HOSPITAL ADDITION—1 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, Constructing Quartermaster's Office, Fort Mason. Owners, United States Government. Bids will be received until February 28th for the construction of a Bacteriological Building at the Letterman General Hospital in the Presidio. Plans can be secured from the office of the Constructing Quartermas-

ter. An official proposal appears in another column of this issue.

HOSPITAL HEATING AND VENTILATING—Cost not stated. San Francisco. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. Bids will be opened by the Board of Public Works on February 25th for installing the heating and ventilating systems in the southeast wing of the new San Francisco Hospital. Plans can be secured from the architect.

OFFICES—8 or 10 story and base. Class A construction. Cost not stated. San Francisco. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Southern Pacific Co. Location, south Market between Spear and Stewart. Will occupy approximately one-half block. Complete steel frame, brick and concrete walls and concrete floor. Entire building to be occupied by the owners. Details of construction can not be given as no plans have been started.

LOFTS—4 story and base. Class C construction, $37,725. San Francisco. Architect, Wright & Rushforth, 354 Pine street, S. F. Owner, S. S. Parsons. Location, east Beale north of Mission, covering an area of 92 by 137½ feet. First floor stores and upper floors lofts. Interior finish pine. Steam heat and elevator service. Metal window sash and frames. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and contracts to be let at once.

STORES AND LOFTS—2 story, mezzanine floor and base, reinforced concrete, $18,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name withheld. Location, west Mission between 23rd and 24th streets, covering an area of 25 by 120 feet. Interior finish pine and some hardwood, marble and tile. Patent store fronts, marble bases and inlaid display windows. Elevator service. Exterior faced with cut stone or marble. Plans complete and figures to be called for at once.

STORES—2 story and base. Class A construction. Cost not stated. San Francisco. Architect, William C. Hays, First National Bank Bldg., S. F. Owner's name withheld. Location, north Sutter west of Powell, covering an area of 27 by 137½ feet. Designed for art studios. Interior finished in pine, hardwood and enamel. Hardwood floors. Patent store fronts and marble bases. Exterior faced with pressed brick trimmed with terra cotta. Plans being figured.

Contracts Awarded.

APARTMENT HOUSE—3 story and base, frame, $9,680. San Francisco. Architect, J. C. Hladik, Monadnock Bldg., S. F. Owner, Mrs. E. S. Tuttle Fray. Contractors, Sinnott & Alsop, 1325 Guerrero street, S. F. Contract price, $9,680.

STORES AND LOFTS—2 story and base. Class C construction, $18,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Contractor, Val Franz, 185 Stevenson street, S. F. Contract price, $18,000.

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. At the last meeting of the County Supervisors the extension of A street, San Leandro, was authorized, and plans ordered. An under-grade crossing on the Sunol-Pleasanton road was also ordered. Overhead crossings on the Altamont road was also ordered. Further mention will be made of this work when bids are called.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed resolutions of intention to improve Galindo street between 35th and Harrington avenues; also to improve East Eighth street from Fruitvale avenue to 37th avenue. Bids on this work will be called for shortly.

STREET PAVING, CURBS, ETC.—Cost not stated San Leandro, Alameda Co., Cal. Engineer, Town Engineer, San Leandro. Owners, Town of San Leandro. Bids will be opened on March 6th at 9 p. m. for work in accordance with the following resolution: That the easterly half of San Leandro street between the S line of Joaquin avenue and a line drawn parallel thereto and distant 143.25 feet therefrom, be graded, curbed with redwood and paved with macadam pavement and sidewalked with an oil-macadam sidewalk, 10 feet in width.

RESIDENCE — 3 story and base, frame, $10,000. Berkeley, Alameda Co., Cal. Architect, F. Holberg Reimers, 2145 Shattuck avenue, Berkeley. Owner, E. H. Fisher. Location, Virginia street. Will contain nine rooms, two baths and sleeping porches. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, east Claremont opposite Hillegass. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, east Claremont opposite Hillegass. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, C. E. Sinclair, 5333 Locksley avenue, Oakland. Location, Oxford street. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, P. D. Leman, 1622 Ashby avenue, Berkeley. Location, east Oxford north of Los Angeles. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owners, B. M. and H. G. Patrick, 2001 Hopkins avenue, Berkeley. Location, west Edwards north of Channing Way. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base. frame, $10,000. Berkeley, Alameda Co., Cal. Architect, Warren C. Perry, 2636½ Dwight Way, Berkeley. Owner, Warren C. Perry. Location, Benvenue avenue. Will contain ten rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster on metal lath. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $5,000. Oakland, Cal. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner's name withheld. Location, Thousand Oaks Tract. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster on metal lath. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $3,000. Piedmont, Alameda Co., Cal. Architect, none. Owner, Alfred Crods, 40 Bowie street, Piedmont. Location, west Grand north of Oakland. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place andfurnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. Oakland, Cal. Architect, Noble Newsom, Nevada Bank Bldg., S. F. Owner, Noble Newsom. Location, east Oak street. Will contain several apartments of two and three rooms. Interior finish pine and redwood. Sleeping porches and wall beds. Tile bath rooms. Steam heat and hot water supply. Exterior covered with cement plaster. Plans

revised and new figures being taken.

APARTMENT HOUSE—4 story and base, brick and steel, $75,000. Berkeley, Alameda Co., Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Location, Telegraph avenue and Haste. Will contain a number of two, three and four room apartments. Interior finish pine and hardwood. Hardwood floors. Steam heat, automatic elevator, oil burning system, hot water supply and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owners, Anthony & Heyer, Dalziel Bldg. Oakland. Location, west Walla Vista, south of Sunnyslope. Will contain five rooms, bath and sleeping porch. Interior finish pine and hardwood, with some white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room, tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. Norris, 2828 Richmond Ave., Oakland. Location, east College Ave., south of Bryant. Will contain five rooms, bath and sleeping porch. Interior finish, pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantle. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, Louis O. Hanson, 1128, The Alameda. Location, east Bonita, south Rose. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

AMUSEMENT PARK IMPROVEMENTS, $75,000. Oakland, Cal. Architect, W. D. Reed, Oakland Bank of Savings, Oakland. Owners, Idora Park Co. An open-air salt water swimming tank and artificial bathing beach is planned for Idora Park. A miniature replica of the beach at Honolulu will be a feature of the bathing establishment. White sand from Carmel will be used in providing a beach 40,000 feet in area. The pool will be so constructed as to be used in winter for ice skating. The tank will be 75 by 500 feet and lined with white tile. There will be a wading pool for children and the tank will be equipped with slides, spring boards, high diving platforms and rings. The water will be pumped from the Key Route pier and heated to a comfortable temperature.

RESIDENCES.—Two 2 story and base, frame, $3,500 each. Oakland, Cal. Architect, none. Owner, C. M. MacGregor, 470 13th St., Oakland. Locations, north-east 38th, west of Beaumont. Each will contain seven rooms, bath and sleeping porch. Interior finish, pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base frame, $2,500. Piedmont, Alameda, Co., Cal. Architect, none. Owner, James H. Young, 702 Aileen St., Oakland. Location, west Dale between Nova and Fairview. Will contain five rooms, bath and sleeping porch. Interior finish, pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

RESIDENCES.—Twa 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, John Whalen. Location, Santa Clara Ave. Each will contain five rooms, bath and sleeping porch. Interior finish, pine and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Owner, C. M. MacGregor, 470 13th St., Oakland. Location, northwest corner of E. 38th and 14th Ave. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors, furnace heat and open fire place. Mantel tile or brick. Bath room, tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

GARAGE — 2 story, brick, $8,500. Oakland, Cal. Architect, none. Owners, J. W. Owen and R. W. King, 1461 Alice street, Oakland. Location, west Alice north of 14th. Designed for a commercial garage. Concrete floor. Special wash room and office. No interior finish. Gasoline storage tanks. Exterior faced with stock brick. Plans complete and work to be done by Day Labor.

GARAGE—1 story, reinforced concrete, $7,000. Oakland, Cal. Architect, none. Owner, W. H. MacKinnon, Magnolia and Nova avenues, Piedmont. Location, west Broadway between Moss and 38th streets. Concrete walls and floor. Special gasoline storage tanks. Interior finish pine. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and work by Day Labor.

COLLEGE LIBRARY, ETC.—Cost as follows. Berkeley, Alameda Co., Cal. Architect, John Gelen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. J. D. Hannah, Monadnock Bldg., is still taking subfigures on practically all parts of the work included in his contract for the general construction of the Uniersity of California Library. His contract is for approximately $195,000. F. W. Wentworth & Co. secured the contract for book stacks and metal furniture for the Library on their bid of $100,675. The Turner Co. was awarded the contract for plumbing on the same building at $8,215. Ne Page-McKinney Co. secured the contract for electric work on the Benj. Ide Wheeler Hall at $6,089 and the Turner Co. the contract for the heating and entilating on the same at $51,180. The California Granite Co. was awarded a contract for a granite balustrade for the Sather Tower at $22,250.

STORE—1 story, frame, $2,500. Oakland, Cal. Architect, none. Owner, L. G. Hudson, 4041 Everett avenue, Oakland Location, northeast corner of Hopkins and Cannon streets. Will contain one small store and office. Interior finish pine. Patent store fronts. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

APARTMENT HOUSE—4 story and base, brick and steel, $60,000. Berkeley, Alameda Co., Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Sommarstrom Investment Co. Contractors, Sommarstrom Bros., 301 Oakland avenue, Oakland. Contract price, $60,000. Contractors are now taking subfigures.

SAN JOSE AND THE SANTA CLARA VALLEY

STORM WATER SEWER—Cost not stated. Hillsborough, SanMateo Co., Cal. Engineer, Town Engineer, 202 Hearst Bldg., S. F. Owners, Town of Hillsborough. Bids will be received until March 7th at 5 p. m. for the construction of a storm sewer of 10-inch vitrified salt-glazed pipe from a point on the west side of Walnut avenue, 340 feet southerly from the creek crossing said Walnut avenue between Florihunda and Willow avenues, to said creek, together with necessary grading, backfilling and terminals.

RESIDENCE — 2 story and base, frame, $60,000. Burlingame, San Mateo Co., Cal. Architect, C. E. Gottchalg, Phelan Bldg., S. F. Owner, Edwin Christenson. Location Burlingame Heights. Will contain sixteen rooms six baths and sleeping porches. everal outbuildings are also planned, which will include servants' quarters, laundry, stables and garage. Interior finish hardwood and white enamel. Hardwood and tile floors. Hot water heating system and hot water circulating system Bath rooms tile and equipped with showers. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans being prepared.

RESIDENCE—Alteration and additions, frame, $20,000. Redwood City, San Mateo Co., Cal. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owner, Mrs. Harris. Work will consist of both interior and exterior alterations and will include plastering, interior partitions, painting, plumbing, electric work, hardwood floors and trim. Plans are being prepared.

BRIDGE TIMBER—$2,000. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. At the last meeting of the County Supervisors Surveynor Neuman gave an approximate estimate of $2,000 for the cost of providing a temporary bridge across the washout, said cost to include the making of the fill, which would be a permanent nature, the cost of the temporary bridge itself only being about $500. The Surveyor was directed to have the plans and specifications for work ready for the next meeting, when a call for bids will be issued.

CULVERT — Reinforced concrete. Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor, Redwood City. Owners, Sna

Mateo County. Bids will be opened on March 6th at 10 a. m. for the construction of a reinforced concrete culvert on Brittan avenue at a point about 1,000 feet southeasterly from Brittan road, located in the Second Road District.

ROAD IMPROVEMENT — Cost not stated. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. County Surveyor Cozzens reports that plans and specifications for the macadam road which is to be built from Hatton's Corners to Monterey are nearing completion. The plans will probably be taken up by the Board of Supervisors next month.

Contracts Awarded.

STREET IMPROVEMENT—$2,551.42. South San Francisco, San Mateo Co., Cal. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. Contractors, Western Sand & Rock Co. Contract price, $2,551.42.

SEWER CONSTRUCTION — $2,214.-20. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, ity of Santa Cruz. Contractor, W. J. Tobin, 735 Filbert street, Oakland. Contract price, $2,214.20.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENT — Cost not stated. Larkspur, Marin Co., Cal. Engineer, Town Engineer, Larkspur. Owners, Town of Larkspur. At the last meeting of the Town Trustees a resolution was passed ordering bids received for street work on Olive avenue. Bids close March 7th. Plans may be had from the Town Clerk at Larkspur.

RESIDENCE — 2 story and base, frame, $17,500. Mt. Diablo, Contra Costa Co., Cal Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. N. Burgess. Will contain twelve rooms, three baths and sleeping porches. A separate garage will also be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Martels tile and brick. Hot water circulating system. Bath rooms tile. Exterior covered with shingles Plans being prepared.

HOSPITAL COTTAGE—1 story, concrete and frame, $11,868. Napa, Napa Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. George W. Boxton & Son, Hearst Bldg., S. F., presented the low figure for the construction of alterations to the South Pay Cottage at the Napa State Hospital. He will be awarded the contract. A complete list of the bids received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

SCHOOL NURSERY — 1 story and base, frame and concrete. Cost not stated. Eldridge, Sonoma Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received until March 14th at noon for the construction of a girls' nursery building at the Sonoma State Home for Girls. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

DEPARTMENT STORE AND APARTMENTS—2 story and base, brick and steel, $10,000. San Rafael, Marin Co., Cal. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, Herzog & Rake. Location, northwest corner of 4th and B streets, covering an area of 98 by 125 feet. Entire first floor to be occupied by the owners. Upper floor arranged for fourteen apartments of two and three rooms. Interior finish pine and white enamel. Hardwood and tile floors. Steam heat, oil burning plant and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

RESORT HOTEL—1 story and base, stone, $21,000. Auga Calenti, Sonoma Co., Cal. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, Auga Caliente Hotel. Contractor, A. N. Hildebrand, Elks Club, Santa Rosa. Contract price, $21,000.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CONSTRUCTION — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Plans and specifications were approved at the last meeting of the Board of County Supervisors and bids have been ordered received up to March 6th for division 9, section 6, Bakersfield-Glenville road; division 10, section 8, Bakersfield-Mojave road, and division 7, section 4, Bakersfield-Taft road. Plans may be had from the office of the County Highway Commission.

HIGHWAY CONSTRUCTION — Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids were opened by the Board of Supervisors for the construction of the unit of the county improved highway between this city and Hardwick. There were five bids submitted as follows: Thompson Bros., 1514 H street, Fresno—Completed road bed 50c per cubic yard; asphaltic concrete base, 2½ inches thick, 2.7c per square foot; Warrenite wearing surface, 1¼c per square foot, guard fence, 50c per lineal foot.

Eaton & Smith, 407 11th street, San Francisco—Completed road bed, 40c cubic yard; asphaltic concrete base, 3⅓c per square foot; Topeka wearing surface, 1⅔c per square foot, guard fence, 50c per lineal foot.

Raisch Improvement Co., 1108 Crocker Bldg., San Francisco — Completed road bed, 57c per cubic yard; asphaltic concrete base, 2.44c per square foot; Topeka wearing surface, 1.55c per square foot; guard fence, 40c per lineal foot.

Hart & Henry Construction Co.—Completed road bed, 40c per cubic yard; asphaltic concrete base, 2½c per square foot; Topeka wearing surface, 1½c per square foot; Warrenite wearing surface, 3.4c per square foot; guard fences, 50c per lineal foot.

Blanchard & Earlhart — Completed road bed, 60c per cubic yard; asphaltic concrete base, 2½c per square foot; Topeka wearing surface, 1.16c per square foot; guard fence, 40c per lineal foot.

Owing to the closeness of the bids on the different items, the acceptance of the low bid was laid over until the next meeting.

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owner, A. J. Sowles, 2801 Madison street, Fresno. Location, Bartlett Heights. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work by Day Labor.

PUMPING STATIONS—3, reinforced concrete. Cost not stated. Tulare, Tulare Co., Cal. Engineer, Engineering Dept. Associated Oil Co., S. F. Owners, Associated Oil Co. The Associated Oil Company is preparing to erect three pumping plants, one to be located just tween the Kern fields and Port Costa. The present plants will be enlarged.

SCHOOL—1 story and base. Class C construction, $30,000. Wasco, Kern Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco School District. Will contain six class rooms and assembly hall. Interior finish pine with maple floors in the class rooms. Central heating system. Blackboards, modern school plumbing and electric work. Exterior faced with cement plaster. Plans being prepared.

SEWER CONSTRUCTION — Cost not stated, Turlock, Stanislaus Co., Cal. Engineer, City Engineer, Turlock. Owners, City of Turlock. City Engineer Luyster was instructed to prepare an estimate of cost for the sewer construction of about 1800 feet on Park street, at the last meeting of the City Council. Plans for this work will be ordered shortly.

ROAD CONSTRUCTION — Cost not stated. Madera, Madera Co., Cal. Engineer, County Surveyor, Madera. Owners, Madera ounty. Bids will be received on March 8th at 2 p. m. for grading Frizzell Road, Fourth Supervisor District, fram station "O" to station 126-70.

STREET PAVING—Cost not stated. Turlock, Stanislaus Co., Cal. Engineer, City Engineer, Turlock. Owners, City of Turlock. At the last meeting of the City Council at was decided to have Lander avenue improved by laying a 16-foot strip of paving to the southern extremity, and the City Engineer was instructed to prepare plans and specifications for the work. Bids on this work will be called for shortly.

HIGHWAY CONSTRUCTION — Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. At the County Supervisors' last meeting County Surveyor Edgar Annear submitted plans for concrete highway work on four miles of the McHenry road and one mile or road leading out of Newman. The plans for the two roads were accepted and bids for their construction will be opened on Tuesday, March 14th. The McHenry road will form the connecting link with the Sonora lateral of the state highway, while the Newman work will provide for a strip of road north of the town. Plans may be had from the County Clerk at Modesto.

Contracts Awarded.

HIGHWAY CONSTRUCTION — Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings ounty. Contractor, C. E. Blanchard and Karl Ehrhart, 660 Market street, S. F. Contract price not stated.

LIBRARY—1 story and base, brick and concrete, $8,350. Turlock, Stanislaus Co., Cal. Architects, Bowen & Davis, McKenzie Bldg., Fresno. Owners, Town of Turlock. Contractors, McGregor & Knapp, Turlock. Contract price, $8,350. Other bidders were: Tornelt & Nelson at $8,680; George Bobst, $8,790; Philbrick & Calvin, $9,200.

RAILROAD EXTENSION—Cost not stated. Fresno, Fresno Co., Cal. Engineer's name not given. Owners, Fresno Interurban Railway Co. Mahoney Bros., Hobart Bldg., S. F., will commence work at once on the construction of a seven mile extension to the Fresno Interurban Railway from Barton Vineyard to Kutner's Colony. Later a five-mile extension to Clovis and a twelve-mile extension to Centerville will be built. Lee H. Landis at Hotel Fresno, represents the company.

LAYING CONCRETE PIPE—$4,452. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer Hermann, Modesto. Owners, Modesto Irrigation District. Contractor George A. Bos, Hearst Bldg., S. F. Contract price, $4,452.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

STREET PAVING—Cost not stated. Willits, Mendocino Co., Cal. Owners, City of Willits. The most important matter discussed by the Town Trustees at their meeting last Monday night was the paving of South Main street between the Broaddus creek bridge and the southern boundary of the Daugherty addition. It is proposed to pave it full width as far as Oak avenue and a twenty-foot strip in the center of the street south of that intersection. Definite action was deferred until the next meeting. Further mention will be made of this work.

ROAD CONSTRUCTION — $1,050. Ukiah, Mendocino Co., Cal. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. Contractor, Thomas Ellison, Ukiah. Contract price, $1,050.

HOSPITAL NURSES' HOME—3 story and base, reinforced concrete, $35,970. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. William C. Keating of Sacramento presented the lowest bid for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

RESIDENCE — 2 story and base, frame, $3,500. Stockton, San Joaquin Co., Cal. Architect, Alvin J. Stern, 306 14th street, Oakland. Owner, W. Adams, Stockton. Will contain nine rooms, two baths and sleeping porches. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with shakes. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, brick, $8,000. Stockton, San Joaquin Co., Cal. Architects, Jeffery & Young, Wolfe Bldg., Stockton. Owners, V. Goodman and F. Justin. Location, Washington between California and American streets. Will contain a store on the first floor and seven small apartments on the upper floor. Interior finish pine. Patent store fronts. Gas grates. Wall beds. Exterior faced with pressed brick. Plans being figured.

LODGE HALL AND THEATRE — 5 story and base. Class A construction. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owners, Stockton Moose Hall Association. Location, San Joaquin between Main and Market streets, covering an area of 150 by 75 feet. Besides the hall and office the building will contain a large theatre. Plans have not been started and construction details are not available. Further mention will be made of the work.

LODGE HALL ALTERATIONS — 2 story and base, brick. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owners, Turn Verein. Location, 110 North Hunter street. Work will include steel, brick, carpentry, mill work, plastering, painting, plumbing and electric work. Plans are being prepared.

HOTEL ALTERATION — 3 story, brick. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, Franklyn E. Warner, San Joaquin Bldg., Stockton. Owners, Fontana & Delucchi. Location, Market near San Joaquin street. The present first floor contains a theatre which will be torn out and a hotel office and lobby installed. Upper floors will be altered so as to give 56 rooms and a number of baths. Work will include plastering, brick work, mill work and carpentry, electric work, plumbing and painting. Plans are complete and figures are being taken.

IRRIGATION PROJECT — $480,000. Redding, Shasta Co., Cal. Engineer, H. H. Henderson, Redding. Owners, Anderson-Cottonwood District. Plans and specifications for the construction of the Anderson-Cottonwood irrigation system are ready and bids will be advertised within ten days. It has been decided to construct the project in five units: First, the headgate and tunnel; second and third, the excavation of the main canal in two subdivisions; fourth, the excavation of the laterals; fifth, construction of the syphons and the concrete headgates. Separate bids will be asked for each unit and construction commenced by May 1st. At the intake there will be a 2,400-foot tunnel, running under the cemetery east of Redding. This tunnel will be nine feet square, concrete lined with arched top. The tunnel will be of capacity to carry 400 second feet of water. The main canal will be 39 miles in length, mouth of the tunnel. Churn Creek Bottom, on the east side of the Sacramento River, will be fed by a lateral diverging from the main canal a half mile below the County Hospital. Water will be taken across the river in a cast iron syphon, 70 feet long and 36 inches in diameter. There will be eleven phons in all as the main canal crosses several streams. Drop gates and farmers' side gates will be of concrete construction as will bridges on county roads.

MUNICIPAL WATER SYSTEM OFFICE AND SHOP—1 story, reinforced concrete, $11,000. Eureka, Cal. Architect, Burke, Eureka. Owners, City of Eureka. Bids for the construction of a shop and office building for the public works department were opened at the session of the City Council as follows: Thos. Engelhart, 639 16th street, Eureka, $12,597; Poland & Robinson, $13,160; Elsemore & Jacobs, 422 H St., Eureka, $11,629; Mercer-Fraser Co., G and I streets, Eureka, $13,394. Nelson Ackerman, 126 5th street, Eureka, $12,897. A contract will be awarded shortly.

SCHOOL—1 story, frame. Cost not stated. Covelo, Mendocino Co., Cal. Architect, Department of Indian Affairs, Washington, D. C. Owners, United States Government. Plans have been forwarded to the Indian Warehouse, 608 Mission street, S. F., for a frame Indian School to be erected on the Round Valley Reservation in Mendocino County. Bids for this work can be had from the Agent in charge of the Indian Warehouse. An official proposal appears in another column of this issue.

Complete Bids For Sacramento Hospital.

William C. Keating Low for Nurses' Home at New County Hospital Designed by R. A. Herold.

The following bids were received by the Sacramento County Board of Supervisors for the construction of the three-story reinforced concrete nurses' home at the new County Infirmary. Architect R. A. Herold, Forum Bldg., designed the work. An award will be made at the next meeting of the Board.

Sacramento Hospital Work.

George W. Kopp, Sacramento	$43,197
Siller Bros., Sacramento	41,920
Barton & Hite, Sacramento	40,554
William Murcell, Sacramento	39,984
C. J. Guth, Sacramento	39,878
McGillivrary Cons't, Sac	39,633
Carnahan & Mulford, S. F	39,285
James L. McLaughlin, S. F	38,759
Matthews Cons't Co., Sac	38,711
Teichert & Ambrose, Sac	37,518
W. C. Keating, Sacramento	35,970

An award of contract will be made at Friday's meeting for the construction of the new Detention Home, also designed by Architect R. A. Herold. William Murcell of Sacramento was the low bidder on the work at a little over $10,000 Construction will be of reinforced concrete.

Bids Received For State Hospital Job.

George W. Boxton Low for Alterations to South Pay Cottage at Napa State Hospital.

(By Special Wire.)

SACRAMENTO, CAL., Feb. 17, 1916.—Bids opened by the State Engineering Department for the construction of alterations to the South Pay Cottage at the Napa State Hospital show George W. Boxton & Son, Hearst Bldg., San Francisco, low at $11,868. Following is a complete list of the figures received

Alterations to Pay Cottage.

George W. Boxton & Son	$11,868
Caramount Building Co	12,425
Welsh Bros. & Hannaman	13,692
Bailey-Constock Co.	13758
W. and R. R. Pearce	13,840
Louis Cereghino & Son	13,936
McSheehy Bros.	13,992
Carnahan & Mulford	14,925
M. P. Mortensen	15,687

Thomas Elam & Son	15,931
Pringle-Dunn Co.	16,149
Boyd-Kerr & McLean	16,499
A. Wegner	17,652

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGES—Reinforced concrete and steel. Cost not stated. Riverside, Riverside Co., Cal. Engineer, County Surveyor, Riverside. Owners, Riverside County. At the last meeting of the County Supervisors the County Surveyor was instructed to prepare plans and estimates for the Pauba and Barnett bridges. The former is between Temecula and the San Diego County line, and the latter between Temecula and Murrieta. Bids on this work will be called for shortly.

CHURCH—1 story and base, hollow tile, $35,000. Architect, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Owners, Fifth Church of Christ, Scientist. Location, La Brea avenue and Hollywood Boulevard, covering an area of 85 by 120 feet. It will contain main auditorium, study rooms, Sunday school rooms and reading rooms. Interior finish pine and ornamental plaster. Central heating system. Exterior faced with cement plaster. Plans complete and figures being taken.

MAUSOLEUM—1 story. Class A construction. Cost not stated. Whittier, Los Angeles Co., Cal. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Reinforced concrete foundation and walls. Will contain 500 crypts, office and chapel. Interior finish stone and marble. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

RESIDENCE — 1 story and base, brick. Cost not stated Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, A. Normandi. Location, Wellington Sq. Will contain ten rooms, three baths and conservatory. A separate garage will be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood and tile floors. Hot water heating system, open fire places, vacuum cleaning and hot water circulating system. Mantels, tile and brick. Bath rooms, tile. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 1 story and base, hollow tile. Cost not stated. Montecito, Santa Barbara Co., Cal. Architects, Childs & Smith, 1263, Peoples Gas Bldg., Chicago. Will contain 16 rooms, six bath rooms and sleeping porches. Separate garage. Interior finish, pine, hardwood and white enamel. Hardwood floors throughout. Central heating system, open fire places and tile or brick mantels. Bath rooms tile. Vacuum cleaning. Hot water circulating system. Exterior faced with cement plaster. Plans complete and contract to be let shortly.

WAREHOUSES—2, 1 and 3 story and base, reinforced concrete, $60,000. Wilmington, Los Angeles Co., Cal. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Los Angeles Warehouse Co. Each building will cover an area of 50 by 240 feet. No interior finish. Reinforced concrete floors, walls and roof slabs. Metal window sash and frames. Automatic sprinklers. Exteriors faced with cement plaster. Plans being prepared.

HOSPITAL GROUP—1 and 3 story, reinforced concrete and brick, $140,426. San Bernardino, San Bernardino Co., Cal. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. W. E. Keir Construction Co., San Diego, submitted the low figure at $199,900 for the general construction of the County Hospital group. Other bids submitted were: General construction—C. McNeill, Santa Ana, $215,630; Wm. C. Crawley, Pasadena, $220,968; Cresner Mfg. Co., Riverside, $211,489; F. L. Somers Co., $259,675. Plumbing—Thos. Haverty Co., $30,850; J. T. Newell, $19,200; Lohman Bros., $15,111; Arthus Hess, $19,480. These are all Los Angeles firms. Electric work—Field Electric Co., San Bernardino, $11,310. All figures were taken under advisement.

LIBRARY—1 story and base, hollow tile, $35,000. Los Angeles, Cal. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owners, City of Los Angeles. Location, southeast Workman and Avenue 26. Will contain three reading rooms and auditorium. Interior finish pine and hardwood with marble floor. Steam heat, vacuum cleaning. Metal book stacks. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

RESIDENCE — 2 story and base, frame, $15,000. Los Angeles, Cal. Architect, E. J. Borgmeyer, Stimson Bldg., L. A. Owner, Mathew Ficher. Location, Normandie avenue. Will contain 12 rooms, 3 baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heating system, vacuum cleaning and open fire places. Mantels tile and brick. Hot water circulating system. Bath rooms tile. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL—1 story and base, hollow tile, $55,000. Brea, Orange Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, Brea School District. Will cover an area of 250 by 175 feet. Will contain a number of class rooms and a large auditorium. Interior finish pine with maple floors. Central heating system. Exterior faced with cement plaster. Plans complete and figures being taken. L. H. Van Hoorebeke is Clerk of the Board of School Trustees and will receive all figures. Separate bids for general construction, plumbing, heating, ventilating, electric work, painting and fixtures.

Contracts Awarded.

STREET PAVING—$18,572. Los Angeles, Cal. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Coast Construction Co., 753 South Hill street, L. A. Contract price, $18,572.

RESIDENCE — 2 story and base, Class A construction. $150,000 Pasadena, Los Angeles Co., Cal. Architect, Frederick L. Roehring, American Bank Bldg., L. A. Owner, E. J. Marshall. Contractor A. C. Brandt, 394 Worcester Ave., L. A. Contract price, $150,000.

HOSPITAL CLINIC—1 and 2 story and base, reinforced concrete, $22,000. Los Angeles, Cal. Architect, Arthur B. Benton, 114 North Spring street, L. A. Owner, O. T. Johnson. Contractor, R. S. Martin, 1509 North Marguerita St., L. A. Contract price, $22,000.

STORES—1 story and base addition. Class C construction, $22,000. Calexico, Imperial Co., Cal. Architect, Samuel B. Zimmer, El Centro. Owners, Weed Bros. Contractor, J. W. Smith, Calexico. Contract price, $22,000.

PORTLAND AND OREGON

GARAGE AND SALES ROOMS — 2 story and base, brick. Cost not stated. Portland, Ore. Architects, MacNaughton & Raymond, Title and Trust Bldg., Portland. Owners, White Co. Location, southwest corner of West Park and Couch streets, covering an area of 100 by 100 feet. First floor will be used for display rooms and offices. Upper floor and basement for garage and shipping room. Interior finish pine and hardwood. Tile floor. Steam heat. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded

BANK—2 story and base, brick and reinforced concrete, $40,000. Portland, Ore. Architects, Houghtaling & Dougan, Henry Bldg., Portland. Owners, Citizens' Bank. Contractor, James P. Taylor, Macleay Bldg., Portland. Contract price, $40,000.

SEATTLE AND WASHINGTON

APARTMENT HOUSE—5 story and base, reinforced concrete, $100,000. Seattle, Wash. Architects, Lawton & Moldenhour, Alaska Bldg., Seattle. Owners, Goodwin Realty Co. Location, Boren avenue and Howard street. Will contain two and three room apartments with wall beds and private bath rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

IRRIGATION PROJECT — $100,000. Seattle, Wash. Engineer, Thomas Watson, Globe Bldg., Seattle. Owners, Happy Valley Irrigation District. Thomas Watson is preparing plans for the watering of $14,000 acres of land in the Happy Valley Irrigation District near Sequim, Wash., which will be ready for contractors some time in March. The plans call for 19 miles of main ditch. A 5,000-foot syphon is also included across one of the valleys, this having a 625-foot head. Otto Sinders is president of the district. Further mention will be made of this work when bids are called.

POST OFFICE—2 story and base, brick, stone and steel. Cost not stated. Aberdeen, Wash. Architect, Acting Supervising Architect James A. Wetmore, Washington, D. C. Owners, United States Government. Bids will be received until March 22 at 3 p. m. for the construction, complete, of the new federal building. Plans and specifications can be secured from either the Supervising Architect at Washington, D. C., or from the custodian of the site at Aberdeen.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
835	Gompertz	Gompertz	7900
836	Helbush	Wold	20000
837	Pedersen	Pedersen	5000
838	Rivers	Empire	500
839	Suhr	W'n Hardwood	450
840	Kendrick	Lee	475
841	Haner	Haner	2400
842	Roth	Christiansen	12500
843	de Urioste	McFeil	2390
844	Tiscornia	Tiscornia	1900
845	Same	Same	1900
846	Palace Mkt.	Brumfield	400
847	Naphtley	Cavanagh	400
848	Clark	Clark	2900
849	de Urioste	Pac Wall	2000
850	Bennett	Cameron	16411
851	Same	Ralston	11651
852	Cogswell	Pac Iron Wks	1500
853	Bollman	Tittle	1500
854	Univ. Cal.	McLeran	18300
855	Univ. Cal.	Kaiser	40045
856	Univ. Cal	Arlett	50120
857	Univ. Cal.	Gladding	22000
858	Univ. Cal.	U. S. Metal	14353
859	Univ. Cal.	Monarch Iron	10624
860	Univ. Cal.	McElhinney	21698
861	Univ. Cal.	Mission Marble	5200
862	Univ. Cal.	Zelinsky	11860
863	Univ. Cal.	Cal. Window	4640
864	Univ. Cal.	Day	4300
865	Univ. Cal.	Bennett	7200
866	MacArthur	MacArthur	2000
867	MacArthur	MacArthur	2000
868	Neil	Neil	1800
869	Cal. St. Rlty.	Hjul	1000
870	Sunset Rlty	Cox	17500
871	Nyman	Nyman	1200
872	Burman	Cuneo	1600
873	Krogh	Krogh	3000
874	Fry	Scott	1060
875	O'Donnell	Segurson	3500
876	Sellers	Ross	2800
877	Darrimon	Hinson	21750
878	Franke	Petersen	15760
879	Davis	Davis	400
880	Thompson	Thompson	425
881	Swales	Johnson	400
882	Curber	Lynch	400
883	Kollerer	Anderson	400
884	Schwartz	Goodman	1000
885	Plattner	Plattner	1809
886	Greenwood	Moren	1975
887	Cirimele	Smith	1650
888	McCormick	McCormick	1200
889	Heinke	Albrecht	500
890	Marx	Marx	450
891	Allen	Allen	450
892	Jackson	Leigh	2000
893	Fugazi Banca	Melbourne	41297
894	Ruggles	Davies	2850
895	Sachan	De Luca	5600
896	Lederman	Manseau	3000
897	Lederman	Manseau	3000
898	Lederman	Manseau	3000
899	Lederman	Manseau	3000
900	Lederman	Manseau	3000
901	Casey	Chase	1244
902	Henry	Holmes	3000
903	Phillips	Bessett	5250
904	Reurdon	Francis	1800
905	Johanson	Johanson	5000
906	Dempniak	Dempniak	11000
907	Shell Oil	Shell Oil	500
908	Lane	Lane	2900
909	Hall	Hall	3000
910	Hall	Hall	3000
911	Moore	Petersen	3275

FRAME RESIDENCE

(835) E BRODERICK 75 N Green. Two-story and basement frame residence.

Owner.....Chas. W. Gompertz, 503 Market, San Francisco.

Architect ...E. E. Young, 251 Kearny, San Francisco.

Day's work. COST, $7900

CLASS "C" BAKERY.

(836) N GEARY 47-6 E Larkin. Two-story and basement brick Class "C" bakery and (2) apartments.

Owner.....H. H. Helbush, 75 Sutter, San Francisco.

Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.

Contractor..C. L. Wold Co., 75 Sutter, San Francisco.

COST, $20,000

NOTE:—Excavation started.

FRAME FLATS

(837) E ELEVENTH AVE 250 S Geary Two-story and basement frame (2) flats.

Owner.....Chas. Pedersen, 29 Irvington, San Francisco.

Architect ...E. A. Schumacher, Nevada Bank Bldg., S. F.

Day's work. COST, $5000

NOTE:—Frame up.

GALVANIZED IRON CORNICE

(838) SW MINNA AND SECOND. Erect galvanized iron cornice.

Owner.....Rivers Bros., 671 Montgomery, San Francisco.

Architect ...None.

Contractor..Empire Sheet Metal Works 50 Tehama, S. F.

COST, $500

ALTERATIONS

(839) NO. 24 GEARY. Alter restaurant

Owner.....John C. Suhr, 723 Market, San Francisco.

Architect ...None.

Contractor..Western Hardwood Mfg. Co., 103½ Golden Gate Ave., S. F. COST, $450

FRAME GARAGE

(840) NO. 2496 FILBERT. One-story frame garage.

Owner.....Chas. H. Kendrick, 23 Montgomery, S. F.

Architect ...Smith O'Brien, Humboldt Bank Bldg., S. F.

Contractor..C. M. Lee, 991 Howard, San Francisco.

COST, $475

FRAME DWELLING

(841) NW TWENTY-THIRD AVE & Rivera. Two-story and basement frame dwelling.

Owner.....John F. Haner, 3580 20th, San Francisco.

Architect ...None.

Day's work. COST, $2400

STORE AND APARTMENTS

(842) SW "B" AND FOURTH AVE S 25xW 95 O L 337. All work for three-story frame stores and apartments.

Owner.....Henry W. Roth.

Architect ...Koenig & Christiansen, Humboldt Bank Bldg., S. F.

Contractor..H. C. Christiansen, 1345 4th Ave., San Francisco.

Filed Feb. 11, '16. Dated Feb. 3, '16.

Frame up	$3125
Brown coated	3125
Completed and accepted	3125
Usual 35 days	3125
TOTAL COST.	$12,500

Bond, none. Limit, 100 days. Forfeit, $10. Plans and specifications filed.

ELECTRICAL WORK

(843) NE VAN NESS AVE AND McAllister 120x109. Electrical work for apartment and store building.

Owner.....Mrs. Hannah de Urioste.

Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.

Contractor..Frank W. Watts (as McFell Elec. Co.), 223 Minna, San Francisco.

Filed Feb. 11, '16. Dated Feb. 9, '16.

On 1st and 15th of each month	75%
Usual 35 days	25%
TOTAL COST,	$2390

Bond, $1200. Surety, Guardian Casualty & Guaranty Co. Limit, as fast as possible. Forfeit, none. Plans and specifications filed.

FRAME DWELLING

(844) W TWENTY-FIFTH AVE 300 S Judah. One and one-half-story and basement frame dwelling.

Owner.....Dominic Tiscornia, 233 Delano, San Francisco.

Architect ...None.

Day's work. COST, 1900

FRAME DWELLING

(845) W TWENTY-FIFTH AVE 275 S Judah. One and one-half-story and basement frame dwelling.

Owner.....Dominic Tiscornia, 233 Delano, San Francisco.

Architect ...None.

Day's work. COST, 1900

MARQUISE

(846) NO. 925 BUSH. Erect marquise.

Owner.....Palace Market, Premises.

Architect ...None.

Contractor..Brumfield Elec. Sign. Co., 18 7th, San Francisco.

COST, $400

PLASTER FRONT

(847) NO. 2960 BROADWAY. Plaster front of dwelling.

Owner.....Mr. Naphtley, Premises.

Architect ...None.

Contractor..T. A. Cavanagh.

COST, $400

FRAME DWELLING

(848) E TWENTY-FIFTH AVE 175 N Anza. Two-story and basement frame dwelling.

Owner.....Elmer and Mabel Clark, 571 26th Ave., S. F.

Architect ...None.

Contractor..Elmer E. Clark, 571 26th Ave., San Francisco.

COST, $2900

RECESS BEDS

(849) NE VAN NESS AVE AND McAllister 120x109. 24 style "F" recess beds and 18 double door pivot style "F" beds (owner to furnish and hang all doors.)

Owner.....Mrs. Hannah de Urioste.

Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.

Contractor..E. H. Bellows (as Pacific Wall Bed Co.)

Filed Feb. 11, '16. Dated Feb. 14, '16. Completed & accepted. entire amount
TOTAL COST, $2000
Bond, none. Limit, as expeditiously as other work will permit. Forfeit, $20. Plans and specifications, none.

FRAME APARTMENTS
(850) S EDDY 87-6 E Leavenworth E 50xS 137-6. All work except structural steel and iron work for six-story and basement steel frame apartment building.
Owner.....George E. Bennett, 2000 16th, San Francisco.
Architect...C. A. Clausen, Hearst Bldg San Francisco.
Contractor..Cameron & Disston, Hearst Bldg., San Francisco.
Filed Feb. 14, '16. Dated Feb. 10, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $46,411
Bond, $23,300. Sureties, J. D. Hannah and H. K. M. Kevitt. Limit, 150 days after steel frame up. Forfeit, $20. Plans and specifications filed.

(851) STRUCTURAL STEEL & IRON work on above.
Contractor Ralston Iron Works, Inc., 20th and Indiana, S. F.
Filed Feb. 14, '16. Dated Feb. 10, '16
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $11,654
Bond, $5827. Surety, Guardian Casualty & Guaranty Co. Limit, 110 days. Forfeit, $20. Plans and specifications filed.

IRON WORK
(852) SW FOLSOM AND TWENTY-sixth W 170 S 150-9¼ m or 1 S 86 deg 35 min E 175 m or 1 N 173. Miscellaneous and ornamental iron work for three-story and basement Class "A" building.
Owner.....Jas. W. Kerr et al as Board of Trustees of Cogswell Polytechnical College, by Lange & Bergstrom.
Architect...Frederick H. Meyer, Bankers' Invst. Bldg., S. F.
Contractor..Pacific Iron Works, 1155 67th, Oakland.
Filed Feb. 14, '16. Dated Feb. 8, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1500
Bond, limit, forfeit, plans and specifications, none.

ELECTRIC WORK
(853) SE FOURTH AND BRANNAN 137-6x275. Electric work for three-story and basement reinforced concrete warehouse.
Owner.....The John Bollman Co., Commercial and Battery, San Francisco, by Lange & Bergstrom, Sharon Bldg San Francisco.
Architect...Charles Peter Weeks, Mutual Bank Bldg., S. F.
Contractor..H. S. Tittle, 245 Minna, San Francisco.
Filed Feb. 14, '16. Dated Jan. 28, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $1500
Bond, limit, forfeit, plans and specifications, none.

HOSPITAL
(854) FOURTH AND PARNASSUS avenues. Carpentry work for Class "A" Hospital.
Owner.....Regents University of California.
Architect....Lewis P. Hobart, Crocker Bldg., S. F.
Contractor..McLeran & Peterson, Sharon Bldg., S. F.
COST $48,300

(855) PLASTERING ON ABOVE.
Contractor..Joseph Kaiser, 125 Highland Ave., S. F.
COST, $40,045

(856) BRICK WORK ON ABOVE.
Contractor..Arthur Arlett, 251 Post, Son Francisco.
COST, $50,120

(857) ARCHITECTURAL TERRA cotta on above.
Contractor..Gladding, McBean & Co., Crocker Bldg., S. F.
COST, $22,000

(858) ROOFING AND SHEET METAL on above.
Contractor..U. S. Metal Products Co., 525 Market, S. F.
COST, $14,353

(859) ORNAMENTAL IRON WORK on above.
Contractor..Monarch Iron Works, 1161 Howard, S. F.
COST, $10,624

(860) TILING AND FLOORING ON above.
Contractor..G. McElhinney, 1391 Howard, S. F.
COST, $21,698

(861) MARBLE WORK ON ABOVE.
Contractor..Mission Marble Works, 362 Guerrero, S. F.
COST, $5,200

(862) PAINTING ON ABOVE.
Contractor..D. Zelinsky, 564 Eddy St., San Francisco.
COST, $14,860

(863) GLASS AND GLAZING ON above.
Contractor..California Plate and Window Glass Co., 864 Mission, San Francisco.
COST, $4,640

(864) LIGHTING FIXTURES ON above.
Contractor..Thomas Day Co., 725 Mission, S. F.
COST, $4,300

(865) HARDWARE ON ABOVE.
Contractor..Bennett Bros., 516 Market, San Francisco.
COST, $7,200

DWELLING
(866) N NINETEENTH, 314-8 W Douglass. Two-story and basement frame dwelling.
Owner.....MacArthur Bros., 1560 Fell St., San Francisco.
Architect....None.
Day's work. COST, $2000

DWELLING
(867) N NINETEENTH, 464-8 W Douglass. Two-story and basement frame dwelling.
Owner.....MacArthur Bros., 1560 Fell St., San Francisco.
Architect....None.
Day's work. COST, $2000

DWELLING
(868) W FORTY-FOURTH AVE, 125 S Judah. One-story and basement frame dwelling.
Owner.....Alexander Neil, Sr., 4221 Moraga, S. F.
Architect....None.
Day's work. COST, $1800

REPAIRS
(869) S CALIFORNIA, 87-6 W Davis. Remove and replace piers.
Owner.....California Street Realty Company.
Architect....None.
Contractor..J. H. Hjul, Mechanics' Institute Bldg., S. F.
COST, $1000

APARTMENTS
(870) SW SIXTH AVE AND LINCOLN Way. Three-story and basement frame (9) apartments.
Owner.....Sunset Home Realty Co., 1401 7th Ave., S. F.
Architect....None.
Contractor..Cox Bros., 5th avenue and Lincoln Way, S. F.
COST, $17,500

DWELLING
(871) W NEWTON, 500 N Brunswick. One and one-half story and basement frame dwelling.
Owner.....C. Nyman, 314 Day St., San Francisco.
Architect....None.
Day's work. COST, $1200

DWELLING
(872) N NEY, 225 E CONDON. One and one-half story and basement frame dwelling.
Owner..Burman & Cuneo, 40 Martha Ave., S. F.
Architect....None.
Day's work. COST, $1600

RESIDENCE
(873) E EIGHTEENTH AVE, 286-9 S Balboa. Two-story and basement frame residence.
Owner.....P. M. and M. L. Krogh, 558 Balboa, S. F.
Architect....None.
Contractor..Peter M. Krogh, 558 Balboa, S. F.
COST, $3000

REPAIRS
(874) NW BUSH AND POLK. Repairs to heating and hot water equipment in building.
Owner.....Estate of Sarah Fry.
Architect....W. H. Crim, Jr., 425 Kearny, S. F.
Contractor..Scott Co., Inc., 243 Minna, San Francisco.
Filed Feb. 15, '16. Dated Feb. 11, '16.
All work completed except parts of boiler to come from east...$530
Completed and accepted 265
Usual 35 days 265
TOTAL COST, $1060
Bond, $530. Sureties, New Amsterdam Casualty Co. Forfeit, $10. Limit, 20 days. Plans and specifications filed.

FLATS
(875) N TWENTY-FIFTH, 50 W Hampshire. All work for a two-story frame building (flats.)
Owner.....Emma R. O'Donnell, 1374 Fulton, S. F.
Architect....None.
Contractor..Segurson Bros., 308 Guerrero, S. F.
Filed Feb. 15, '16. Dated Nov. 20, '15.
Frame up and braced ..... ¼

Brown mortar on ..... ¼
Completed and accepted ..... ¼
Usual 35 days ..... ¼
TOTAL COST, $3500
Bond, Sureties, Forfeit, Limit, none.
Plans and specifications filed.

FRAME STORES
(876) W MISSION 138-6 N 17th N 25x W 100. All work for one-story frame store building.
Owner.....Jas. C. Sellers.
Architect....Charles Paff & Co., 340 Sansome, S. F.
Contractor..D. W. Ross & Co., 582 Market, S. F.
Filed Feb. 16, '16. Dated Feb. 14, '16.
Concrete work done, rough plumbing and sewers in, etc..$700
Outside completed and interior plastered rough coat..... 700
Completed and accepted 700
Usual 35 days 700
TOTAL COST, $2800
Bond, $1400. Sureties, The Aetna Accident and Liability Co. Forfeit, $1. Limit, 35 days. Plans and specifications filed.

FRAME APARTMENTS
(877) S BROADWAY, 35 E Fillmore, E 33-9x100. All work for a three-story and basement frame apartment building.
Owner.....E. G.Darrimon, 557 14th, San Francisco.
Architect....O. R. Thayer, 20 Montgomery, S. F.
Contractor..L. A. Hinson, 180 Jessie, San Francisco.
Filed Feb. 16, '16. Dated Feb. 16, '16.
2nd floor joists on $3712
Ready for plastering 3712
White coated 3712
Standing finish on 3712
Completed and accepted ..... 371.
Usual 35 days 6188
TOTAL COST, $24,750
Bond, Sureties, Forfeit, none. Limit, 90 days. Plans and specifications filed.

FRAME FLATS
(878) E CAPP 61 S 23rd S 59-6xE 122-6. All work except light fixtures, window shades and finish hardware for two three-story frame buildings (flats.)
Owner.....Jno. and Mary Franke, 815 Capp, S. F.
Architect....Ernest M. Essmann, 3805 24th, S. F.
Contractor..Einar Peterson, 3530 23rd, San Francisco.
Filed Feb. 16, '16. Dated Feb. 7, '16.
Frames up $3940
Brown coated 3940
Completed and accepted 3940
Usual 35 days 3940
TOTAL COST, $15,760
Bond, $7880. Sureties, B. Martin and J. M. Hartmann. Forfeit, none. Limit, 100 days. Plans and specifications filed.
Note: One building to be erected on E Capp 93 S 23rd.

(879) NO 125 RIVOLI. Erect chimney add one room.
Owner.....D. J. Davis, Premises.
Architect....None.
Contractor..Geo. Bishop.
COST, $400

REPAIRS
(880) NO. 1014 BRYANT. Raise and repair store and flats.
Owner.....Edw. J. Thompson, Prem.
Architect....None.
Day's work. COST, $425

REPAIRS
(881) NO. 482 CASTRO. Repairs for store.
Owner.....E. F. Swales, 909 Broderick, S. F.
Architect....None.
Contractor..Richard Johnson, 482 Castro, S. F.
COST, $400

RATPROOF STORE
(882) NO. 1266 DIVISADERO. Ratproof store.
Owner.....A. Curber, Premises.
Architect....None.
Contractor..A. Lynch, 180 Jessie, San Francisco.
COST, $400

CEMENT FOUNDATION
(883) SW TREAT and 20th. Cement foundation and underpinning.
Owner.....Chas. Kollerer, 3251 20th street, San Francisco.
Architect....None.
Contractor..Gustave Anderson, 2330 24th street, S. F.
COST, $400

ALTERATIONS
(884) NO. 879 MARKET. Alter front.
Owner.....Schwartz & Goodman, Premises.
Architect....J. Cahen, 45 Kearny, San Francisco.
Day's work. COST, $1000

DWELLING
(885) S JUDAH 107 W 25th avenue. One and one-half story and basement frame dwelling.
Owner.....J. H. Plattner, 381 Russ Bldg., S. F.
Architect....W. J Cuthbertson.
Day's work. COST, $1800

RESIDENCE
(886) W ORD (Clara Ave) 252 N 18th N 28xW 136. All work except painting shades, street work, sewer, gas and water connection, etc., for a one-story and basement frame residence in rear.
Owner.....Jane Greenwood.
Architect....None.
Contractor..George G. Moren, 125 Falcon Ave., . F.
Filed Feb. 17, '16. Dated Feb. 16, '16.
Walls in and floor joists set..$370.50
Roof on 370.25
Plastering done 370.25
Completed and accepted 370.25
Usual 35 days 493.75
TOTAL COST, $1975
Bond, $987.50. Sureties, Globe Indemnity Co. Forfeit, none. Limit, 75 days. Plans and specifications filed

COTTAGE
(887) W NAPLES between France and Russia. All work for a four-room and basement cottage.
Owner.....Attilio Cirimele.
Architect....None.
Contractor..L. C. Smith, 832 Russia, San Francisco.
Filed Feb. 17, '16. Dated Feb. 16, '16.
Frame up $412.50
Brown coated 412.50
Finished 412.50
Usual 35 days 412.50
TOTAL COST, $1650
Bond, Sureties, Forfeit, none. Limit, 90 days after Dec. 29, 1915. No plans or specifications.

GARAGE
(888) NO. 1615 Broadway One story concrete garage.
Owner.....C. McCormack, Premises.
Architect....None.
Day's work. COST, $1200

DWELLING
(889) NO. 62 LYELL. One-story frame dwelling.
Owner.....Wm. Heinke, 768 Forester, San Francisco.
Architect....None.
Contractor..C. Albrecht, 768 Forester, San Francisco.
COST, $500

ALTERATIONS
(890) NO. 1761 GEARY. Alter store.
Owner.....Henry Marx, 133 Geary, San Francisco.
Architect....W. G. Hind, 46 Kearny, San Francisco.
Day's work. COST, $450

ALTERATIONS
(891) NOS. 125-27 SUTTER. Alterations for offices.
Owner.....Allen & Co., 128 Sutter, San Francisco.
Architect....Albert Farr, Foxcroft Bldg., S. F.
Day's work. COST, $450

DWELLING
(892) W TWENTY-SECOND AVE 175 S California. Two-story and basement frame dwelling.
Owner.....W. O. Jackson, 343 22nd avenue, S. F.
Architect....None.
Contractor..Leigh & Schultz, 419 21st avenue, S. F.
COST, $2000

ALTERATIONS
(893) NO. 2 COLUMBUS AVE. Remodeling of Hotel Louvre: west exterior wall and interior partitions; first floor concrete slab and wood joists and adding one story to Fugazi Popular Bank Building, combining both buildings into one for bank and hotel purposes.
Owner.....Fugazi Banca Populara Operiara Italiano, 2 Columbus avenue, S. F.
Architect....Italio Zanolini, 604 Montgomery, S. F.
Contractor..F. J. Melbourne, 46 Kearny, S. F.
COST, $11,297

DWELLING
(894) E TWENTY-FOURTH AVE 100 N Anza. Two-story and basement frame dwelling.
Owner.....Frank E. Ruggles, 571 24th avenue, S. F.
Architect....Wm. Davies, 536 28th avenue, S. F.
Contractor..Wm. Davies, 536 28th avenue, S. F.
COST, $2850

ADDITION
(895) SE BATTERY and Green. Add one story reinforced concrete for photographic room (15.10x13 7½)
Owner.....Mrs. Sachan.
Architect....T. Paterson Ross, 310 California, S. F.
Contractor..R. De Luca, 2256 Jones, San Francisco.
COST, $5600

DWELLING
(896) E SIXTEENTH AVE 200 S Judah. One-story and basement frame dwelling.
Owner.....Lederman Building Co., 129 Sutter, S. F.
Architect....None.
Contractor..E. E. Manseau, 1278 35th avenue, S. F.
COST, $3000

DWELLING
(897) E SIXTEENTH AVE 299 S Judah. One-story and basement frame dwelling.
Owner.....Lederman Building Co., 129 Sutter, S. F.
Architect....None.
Contractor..E. E. Manseau, 1278 35th avenue, S. F.
COST, $3000

DWELLING
(898) E SIXTEENTH AVE 332 S Judah. One-story and basement frame dwelling.
Owner.....Lederman Building Co., 129 Sutter, S. F.
Architect....None.
Contractor..E. E. Manseau, 1278 35th avenue, S. F.
COST, $3000

DWELLING
(899) E SIXTEENTH AVE 266 S Judah. One-story and basement frame dwelling.
Owner.....Lederman Building Co., 129 Sutter, S. F.
Architect....None.
Contractor..E. E. Manseau, 1278 35th avenue, S. F.
COST, $3000

DWELLING
(900) E SIXTEENTH AVE 233 S Judah. One-story and basement frame dwelling.
Owner.....Lederman Building Co., 129 Sutter, S. F.
Architect....None.
Contractor..E. E. Manseau, 1278 35th avenue, S. F.
COST, $3000

ALTERATIONS
(901) NO. 385 EIGHTH ST. Alterations for laundry.
Owner.....T. J. Casey. Premises.
Architect....None.
Contractor..S. A. Chase, 80 Douglass, San Francisco.
COST, $1244

DWELLING
(902) N QUINTARA 110 E 18th avenue. Two-story and basement frame dwelling.
Owner.....W. P. Henry, 554 11th avenue, S. F.
Architect....Edward E. Young, 251 Kearny, S. F.
Contractor..Holmes & Haskell, 641 Baker, S. F.
COST, $3000

FLATS
(903) NO. 1170 TREAT AVE. Two-story and basement frame (4) flats.
Owner.....Walter Phillips, Premises.
Architect....A. O. Haulling.
Contractor..C. H. Bessett, 343 29th avenue, S. F.
COST, $5250

LAUNDRY
(904) E THIRTEENTH AVE 120 S Irving. Two-story frame laundry.
Owner.....M. Reardon, 1474 Ellis, San Francisco.
Architect....None.
Contractor..N. Francis, 1474 Ellis, San Francisco.
COST, $1800

FLATS
(905) E TENTH AVE 225 S Geary. Two-story and basement frame (2) flats.
Owner.....Anna K. Johanson, 1832 Franklin, S. F.
Architect....None.
Day's work. COST, $5000

APARTMENTS
(906) W LEAVENWORTH 32-6 N Vallejo. Three-story and basement frame (6) apartments.
Owner.....Michael Dempniak, 728 Page, S. F.
Architect....None.
Day's work. COST, $14,000

SUPPLY STATION
(907) SW BUSH and Mason. One-story steel supply station.
Owner.....Shell Co. of California, 343 Sansome, S. F.
Architect....None.
Day's work. COST, $500

DWELLING
(908) W TWELFTH AVE 200 S Clement. Two-story and basement frame dwelling.
Owner.....C. H. Lane, 323 22nd avenue, S. F.
Architect....None.
Day' work. COST, $2900

DWELLING
(909) W ELEVENTH AVE 150 S Balboa. Two-story and basement frame dwelling.
Owner.....C. A. Hall, 1318 5th avenue, S. F.
Architect....None.
Day's work. COST, $3000

DWELLING
(910) E TWELFTH AVE 150 S Balboa. Two-story and basement frame dwelling.
Owner.....C. A. Hall, 1318 5th avenue, S. F.
Architect....None.
Day's work. COST, $3000

RESIDENCE
(911) S EIGHTEENTH AND 30 FT. E of Lexington 25x85. (Specifications read E 18th 30 S Lexington). All work for two-story and basement frame residence.
Owner.....Frank K. and Mae G. Moore (wf), 895 Valencia, San Francisco.
Designer....Antone Petersen, 844 Guerrero, S. F.
Contractor..Antone Petersen, 844 Guerrero, S. F.
Filed Feb. 18, '16. Dated Jan. 26, '16.
Frame up 25%
Brown coated 25%
Completed and accepted 25%
Usual 35 days 25%
TOTAL COST, $3275
Bond, Sureties, Forfeit, none. Limit, 90 days from Jan. 25, 1916. Plans and specifications filed.
Note: First report Feb. 5th, No. 381.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED

Feb. 11, 1916—E FIFTEENTH AVE 200 N Judah. Hugh Galway to whom it may concern..Feb. 11, 1916
Feb. 11, 1916—E FIFTH AVE 350 S Cabrillo E 120xS 25. John J and Mary E Foley to N A Carlson.....Feb. 11, 1916
Feb. 11, 1916—N WASHINGTON 103 W Spruce N 127-8¼xW 62-6. Margaret K Sudden to Foster & Vogt Co.....Feb. 2, 1916
Feb. 11, 1916—E SHRADER 102-9 S Carmel S 25xE 100. John P Petterson to whom it may concern.....Feb. 5, 1916
Feb. 11, 1916—W TWENTIETH AVE 125 N Anza N 25xW 120. Joseph P Alexander to whom it may concern.....Feb. 10, 1916
Feb. 11, 1916—S GEARY 56 W Buchanan W 30xS 90. Jules Lambla to John Spargo.....Feb. 9, 1916
Feb. 11, 1916—NE VAN NESS AVE & McAllister 120x109. Hannah de Urioste to Edward L Soule Co.....Feb. 8, 1916
Feb. 14, 1916—W DOLORES 134 N 15th 25x125. John A MacDonald to J Koschnitzki.....Feb. 11, 1916
Feb. 15, 1916—N MARSHAL, 179.877 E Mission, E 100xN 90. Joseph Risso to Luigi Dioguardi.....Feb. 11. 1916
Feb. 15, 1916—SE HAYES AND Octavia, E 62-6xS 120. Daniel H. Moran to H. L. Petersen...Feb. 11, 1916
Feb. 15, 1916—E TWENTY-FIFTH avenue, 25 N California, N 25xE 95. Gustave Moeller to Leigh & Schultz .....Feb. 14, 1916
Feb. 15, 1916—E TWENTY-FIFTH avenue, 75 N California, N 25xE 95. David Leigh and Niels Schultz to Leigh & Schultz.....Feb. 14, 1916
Feb. 15, 1916—S TWENTY-FIFTH avenue, 50 N California, N 25xE 95. Frederick Huelter to Leigh & Schultz .....Feb. 14, 1916
Feb. 15, 1916—SE KIRKHAM and 14th avenue, 50x95. Maurice Windmiller to W. A. and C. C. Terrill .....Feb. 15, 1916
Feb. 16, 1916—W FIFTEENTH AVE, 50 S Balboa, S 50xW 77-6. Emil Nelson to whom it may concern..Feb. 16, 1916
Feb. 16, 1916—PPTY OF WESTERN Pac. Ry. Co on 300 (Kentucky) from S 25th to N Tulare. Frank G. Drum and Warren Olney, Jr., receivers Western Pac. Ry. Co. to the Fay Improvement Co....Feb. 10, 1916
Feb. 16, 1916—N Howard 215 W 3rd N 80xW 60. Emma F. Carr to whom it may concern .....Feb. 7, 1916
Feb. 16, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Jos. F. Fogarty to G. Cavaglieri.....Feb. 12, 1916
Feb. 16, 1916—NE TWENTY-THIRD and Louisiana. Western Sugar Refining Co. to Lindgren Co.....Feb. 14, 1916
Feb. 16, 1916—N ½ LOT 22 AND S ½ lot 23, block 22, Crocker Amazon Tract Sub. 1. Albert Mattson to whom it may concern.....Feb. 15, 1916
Feb. 16, 1916—NOS. 755 AND 757 8th avenue, W side 250 N Fulton. Mat Matulie to whom it may concern .....Feb. 7, 1916
Feb. 16, 1916—LOT 50, BLK 25 Crocker Amazon Tract. Matthew

C. Warnock to whom it may concern .....Feb. 15, 1916

Feb. 16, 1916—NE PERSIA AV 50 SE **Napels**, NE Persia avenue 25 SE **Napels**, H. E. and T. W. MacArthur to whom it may concern.... .....Feb. 15, 1916

Feb. 16, 1916—S FORD 125 W Sanchez W 25xS 114. Herbert Quandt to A. Klahn & Son.....Feb. 14, 1916

Feb. 17, 1916—N NINETEENTH 195 E Dolores E 25xN 100. Otis Knight to C. L. Knight .....Feb. 17, 1916

Feb. 17, 1916—E NINETEENTH AVE, 100 N Cabrillo N 25xE 110. Leigh& & Schultz to Leigh & Schultz.... .....Feb. 17, 1916

Feb 17, 1916—SW FITZGERALD AVE (30th Ave south) 125 SE Ingalls (I) SE 25xNW 100. T. F and Refugio G Rincon to David Houle.. .....Feb. 17, 1916

Feb. 17, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas and Electric Co. to U. S. Steel Products Co.....Feb. 15, 1916

Feb. 18, 1916—W 20.84 FT LOT 16 and E 16.66 lot 17, block 2818, Forest Hill Court. Conservative Building Co. to whom it may concern.. .....Feb. 18, 1916

Feb. 18, 1916—SE NAPLES 25 NE Italy Ave NE 25xSE 100, ptn lot 4, block 58, Excelsior Homestead Association. Angelo Pandolfi to L. C. Smith .....Feb. 16, 1916

Feb. 18, 1916—W TWELFTH AVE 29 N Cabrillo N 112 W 120 S 56 E 30 S 56 E 90. Margaretha J. Koenig to whom it may concern.... .....Feb. 18, 1916

Feb. 18, 1916—NW FIFTH AVE and Cabrillo N 25xW 95. Joe McCormick to J. Harold Johnson..... .....Feb. 15, 1916

Feb. 18, 1916—W MIDWAY 91-8 S Bay S 22-11xN 91-8. Michael Musseo to H. C. Gardner....Feb. 15, 1916

Feb. 17, 1916—NE COLUMBUS AVE and Vallejo, E 77-8¼xN 137-6 Roman Catholic Archbishop of San Francisco to J. W. Smith..... .....Feb. 16, 1916

LIENS FILED

San Francisco

Feb. 11, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to a point 69-9 W Steiner and 40 S Filbert E 2-3 N 40. Pacific Floor Sanding Co, Inc vs Louise D Brickell, E M Reagh, J C Brickell, Murray Vandall and John Brickell Co $850

Feb. 11, 1916—S PINE 68-9 E Sansome E 34-4 1-12xS 96. H L Petersen vs Postal Realty Co.....$487.86

Feb. 11, 1916—N FARNSWORTH 118.09 m or l from NW Farnsworth and Willard N 49.06 W 45 S 57.48 E 45.74. Bennett Bros vs George C Stewart $26.23

Feb. 11, 1916—S PINE, bet. Battery and Sansome 68-9 E Sansome 34-4 ft. frontage; No. 247 Pine. Edward L Soule (as Edw L Soule Co) vs Postal Realty Co and M Thornbury $80.54

Feb. 14, 1916—SE SUTTER AND Gough E 137-6xS 137-6. Thomas Day Co vs William M Wise and E L Goldstein Co.....$121.50

Feb. 14, 1916—S PINE 68-9 E Sansome E 34-4xS 96. Golden Gate Iron Works vs Postal Realty Co and D L Thornbury.....$380

Feb. 15, 1916—S PINE 68-9 E Sansome, S 96xE 34-4½. Charles S. Amsler vs. Postal Realty Co....$505

Feb. 15, 1916—N EIGHTEENTH, 95 E Valencia, E 25xN 80. John J. Solomin, $465; W. P. Fuller & Co., $91.23 vs. Ratto & Ratto and P. M. McHugh .....

Feb. 15, 1916—S SIXTEENTH, 179-8 W Guerrero, W 25xS 110. J. S. Guerin & Co., $122; James Cantley, $45 vs Edward and Margaret Perry and L. R. Holm.....

Feb. 16, 1916—S SIXTEENTH 179-8 W Guerrero S 110xW 25. Robert Balzke vs. Edward and Margaret Perry and Samuel Greenhack..$82.50

Feb. 17, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Macdonald Lumber Co. vs. P. M. McHugh and Ratto & Ratto $763.46

Feb. 16, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Michel & Pfeffer vs. P. M. McHugh and Ratto & Ratto $221

Feb. 18, 1916—N EIGHTEENTH AVE 95 E Valencia N 80xE 25. Thomas J. Mannix vs. Ratto & Ratto and P. M. McHugh $270

Feb. 18, 1916—NW COOK and Geary N 100xW 26-8. Walter Dickson vs. H. H. and Francis C. Berthiaume $88.63

Feb. 18, 1916—NO. 2363 SIXTEENTH S line 179-8 W Guerrero 110x25. I. M. Ising vs. Edward and Margaret Berry and Luis R. Holm.$85.60

Feb. 18, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. E. V. Lacey vs. P. M. McHugh, Ratto & Ratto $1125

Feb. 18, 1916—N Mission 190-9 N 25th N 25x W 117-6. Terranova Bros. vs. Ratto & Ratto, and Annie M. Schulz $310

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 10, 1916—NW HYDE AND CLAY N 34-4½xW 137-6. Wm P Goss to Herman Barth, Geo Peck and Arthur W Draper (as Peck & Draper) $450

Feb. 17, 1916—N HOLLOWAY AVE 25 E Granada Ave E 25xN 100. J. H. Kruse to T. A. Wolfe.....

Feb. 17, 1916—S SIXTEENTH 179 W Guerrero W 25xS 110. Samuel Greenback to Edward and Margaret Perry and Louis R. Holm.$425

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
237	Beuner	Harris	400
238	Adrian	Adrian	900
239	Kellog	Kellog	1450
240	Raymond	Valente	1450
241	Same	Same	1450
242	Winship	Winship	1000
243	Taylor	Taylor	1800
244	Same	Same	1700
246	Black	Haley	1000
247	Same	Same	1000
248	Broderick	Winlund	13500
249	Werner	Werner	1500
252	Bakewell	Knight	800
253	Moss	Bradshaw	400
254	Wood	Bradshaw	650
255	Boyce	Bradhoff	800
256	Bischoff	Bischoff	3000
257	Baum	Anderson	4500
258	Amos	Anderson	11029
259	Same	Leland	1030
262	Earl	Nelson	397
263	Bohn	Cal. Granite	4845
265	Ernst	Seward	1800
266	Moran	Warner	1700
268	Moran	Warner	1800
269	Trimlett	Trimlett	1500
270	Thomsen	Nelson	2000
271	Hudson	Hudson	2450
276	Wigmore	Banning	7100
277	Cords	Cords	3000
278	Pfrang	Pfrang	400
279	Helm	Williams	500
280	Powell	Torres	700
281	Townsend	Cromley	400
283	Beadle	Boyd	6200
284	Hecking	Hecking	600
286	Armanino	Jones	400
287	Hoover	Dexter	1750
288	Pac. Can Co.	Owner	400
289	Kuhnle	Garden	400
290	Curich	Corbett	400
300	Hoover	Dexter	1750
301	Blucher	Blucher	1800
302	Nichols	Nichols	1900
303	Norris	Norris	2500
305	Martin	Martin	450
306	Young	Young	2500
307	Johnson	Cushing	1500
308	Burkland	Burkland	2450
309	Dice	Dice	1500
310	Cantino	Cantino	1000
311	Kellogg	Kellogg	1500
312	MacGregor	MacGregor	3250
313	Macgregor	MacGregor	3250
314	Anthony	Heyer	2500
315	MacGregor	MacGregor	3000
316	Owen	King	8500
317	Brown	Brown	2000
318	Moore	Scott	15000
321	W. O. W.	Boldt	400
322	Douglass	Quigley	3000
323	Alexander	Am. Marble	2635

GARAGE

(237) NO. 170 KEMPTON AVE., Oakland. Garage.
Owner.....Mrs. F. M. Beuner, Prem.
Architect ...None.
Contractor..D. F. Harris, 1303 Carrison, Oakland.
COST, $400

ADDITION

(238) E TERRACE 227 N 41st., Oakland. Two-story addition.
Owner.....Mrs. W. Adrian, 166 Geary, San Francisco.
Architect ...None.
Day's work. COST, $900

DWELLING

(239) W POMONA 500 S Main, Albany. One-story 5-room dwelling.
Owner.....J. A. Kellogg.
Architect ...None.
Day's work. COST, $1450

DWELLING

(240) S MARIN 75 E Cornell, Albany. One-story 5-room dwelling.
Owner.....B. Raymond.
Architect ...None.
Contractor..M. E. Valente, 5882 Vallejo Oakland.
COST, $1450

DWELLING

(241) S MARIN 50 E Cornell, Albany. One-story 5-room dwelling.
Owner.....B. Raymond.
Architect ...None.
Contractor..M. E. Valente, 5882 Vallejo Oakland.
COST, $1450

DWELLING

(242) E STANAGE 450 — Dartmont, Albany. One-story 4-room dwlg.
Owner.....P. Winhup.
Architect ...None.
Day's work. COST, $1000

DWELLING

(243) E PERALTA 250 N Sonoma, Albany. One-story 5-room dwlg.
Owner.....W. N. Taylor.
Architect ...None.
Contractor..G. Taylor, 439 Walsworth Ave., Oakland.
COST, $1800

DWELLING
(244) E PERALTA 200 N Sonoma, Albany. One-story 5-room dwlg.
Owner.....W. N. Taylor.
Architect ...None.
Contractor..G. Taylor, 439 Walsworth Ave., Oakland.
COST, $1700

DWELLING
(246) S BOEHMER 235 E Peterson, Oakland. One-story 4-room dwlg.
Owner.....Wm. Black, 1533 San Pablo
Architect ...None.
Contractor..A. L. Haley.
COST, $1000

DWELLING
(247) S BOEHMER 50 E Peterson, Oakland. One-story 4-room dwlg.
Owner.....Wm. Black, 1533 San Pablo
Architect ...None.
Contractor..A. L. Haley.
COST, $1000

APARTMENTS
(248) N MILES AVE 76 W College Ave., Oakland. Three-story 37-room apartments.
Owner.....Anita C. Broderick.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco
Contractor..P. N. Winlund, 1515 Franklin, Oakland.
COST, $13,500

DWELLING
(251) S EDGERLY 175 E 55th Ave., Oakland. One-story 4-room dwlg.
Owner.....J. E. Mitchell, 1752 Broadway, Oakland.
Architect ...None.
Contractor..P. A. Newby, 1431 79th Ave., Oakland.
COST, $1400

ALTERATIONS
(252) NO. 2321 GROVE, Oakland. Alterations.
Owner.....John Bakewell, Oakland.
Architect ...None.
Contractor..Harry C. Knight, 1514 Havenscourt Blvd., Okd.
COST, $800

ELECTRIC SIGN
(253) W WASHINGTON 75 S 14th, Oakland. Electric sign.
Owner.....Moss Glove Store, 469 13th, Oakland.
Architect ...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $400

ELECTRIC SIGN
(254) SW FOURTEENTH AND WASHINGTON. Electric sign.
Owner.....S. N. Wood & Co., 11th & Washington, Oakland.
Architect ...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $650

BRICK GARAGE
(255) S TWENTY-THIRD 100 N Broadway, Oakland. One-story brick garage.
Owner.....F. M. Boyce 417 23rd, Oakland.
Architect ...None.
Contractor..C. O. Bradhoff, 911 55th, Oakland.
COST, $800

DWELLING
(256) E CLAREMONT AVE opp Hillegass, Oakland. Two-story 7-room dwelling.
Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.
Architect ...None.
Day's work. COST, $3000

DWELLING
(257) S PALA 160 N Oakland Ave., Piedmont. Two-story frame dwlg.
Owner.....— Baum, 24 Montecello Ave., Piedmont.
Architect ...None.
Contractor..Jas. Anderson, 306 Magnolia, Oakland.
COST, $4500

FRAME DWELLING
(258) LOT 49 Crocker Oaks, Oakland. All work for two-story and basement frame dwelling.
Owner.....Martha Amos.
Architect ...Henry H. Gutterson, 80 Post, San Francisco.
Contractor..Anderson & Larson.
Filed Feb. 14, '16. Dated Feb. 10, '16.
1st floor joists in place..... 1-5
Frame up 1-5
Interior plastered 1-5
Completed and accepted..... 1-5
Usual 35 days..... 1-5
TOTAL COST, $11,029
Bond, none. Limit, 125 days. Forfeit, $3. Plans and specifications filed.

(259) HEATING ON ABOVE.
Engineer ...Leland & Haley, Holbrook Bldg., San Francisco.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 14, '16. Dated Feb. 11, '16.
1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1090
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

CEMENT WORK AND EXCAVATION
(262) NO 2914 McCLURE ST., Oakland. Cement work and excavation for garage and approaches thereto.
Owner.....Ella F. Earl, Premises.
Architect....Beverly B. Wilder, 5824 Ocean View Drive, Oakland.
Contractor..F. E. Nelson, 1515 Franklin, Oakland.
Filed Feb. 11, '16. Dated Feb. 10, '16.
Completed and accepted 75%
Usual 35 days 25%
TOTAL COST, $397
Bond, $397. Sureties, New England Equitable Insurance Co. Forfeit, Limit, none. Plans and specifications filed.

MAUSOLEUM
(263) LOT 268, PLOT 11, Mountain View Cemetery, Alameda County. Concrete work, reinforcement, granite work, waterproofing, marble and marble tiling for reinforced concrete and granite mausoleum.
Owner.....J. A. Bohn, 1621 7th avenue, Oakland.
Architect....Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..California Granite Company, Sharon Bldg., S. F.
Filed Feb. 14, '16. Dated Jan. 18, '16.
Granite columns set $1000
Granite work completed 1000
Completed and accepted 1595
36 days 1250
TOTAL COST, $4845
Bond, Sureties, Forfeit, none. Limit 90 days. Plans and specifications filed.

DWELLING
(265) N FORTY-FIFTH ST., 150 E Market, Oakland. One-story, five-room dwelling.
Owner.....P. O. Ernst, 872 45th street, Oakland.
Architect....None.
Contractor..E. F. Seward, 1059 47th street, Oakland.
COST, $1800

DWELLING
(266) E TWENTY-SECOND AVE., 31 S E-27th street, Oakland. One-story, five-room dwelling.
Owner.....T. W. Moran, Plaza Bldg., Oakland.
Architect....None.
Contractor..S. A. Warner, 5394 Princeton, Oakland.
COST, $1700

(268) SE TWENTY-SECOND AND E-27th street, Oakland. One-story, five-room dwelling.
Owner.....T. W. Moran, Plaza Bldg., Oakland.
Architect....None.
Contractor..S. A. Warner, 5394 Princeton, Oakland.
COST, $1800

DWELLING
(269) S BROOKDALE AVE, 350 W 38th avenue, Oakland. One-story five-room dwelling.
Owner.....R. Trimlett, 3630 Brookdale Ave., Oakland.
Architect....None.
Day's work. Cost, $1500

DWELLING
(270) S E-SIXTEENTH ST., 94 E 36th avenue, Oakland. One-story, five-room dwelling.
Owner.....S. Thomsen, 1414 36th avenue, Oakland.
Architect....None.
Contractor..Christ Nelson, 3452 Champion street, Oakland.
COST, $2000

STORE AND OFFICE
(271) NE HOPKINS AND CANON Sts., Oakland. One-story store and office.
Owner.....L. G. Hudson, 4041 Everett avenue, Oakland.
Architect....None.
Day's work. COST, $2450

DWELLING
(276) N 20-10 LOT 4 AND S 18-4 LOT 5, block D, map Broadway Terrace, Oakland. All work for two-story and basement frame dwelling.
Owner.....W. J. Wigmore, 572 43rd street, Oakland.
Architect....None.
Contractor..Banning & Stewart, 5215 Broadway, Oakland.
Filed Feb. 14, '16. Dated Feb. 10, '16.
Execution $650
Balance $65 per month at 6 per cent interest .....
TOTAL COST, $7100
Bond, Sureties, Forfeit, none. Limit, 120 days. Plans and specifications filed.

DWELLING AND GARAGE
(277) W GERARD 45 N Oakland Ave, Piedmont. Six-room frame dwelling and garage.
Owner.....Alfred Cords, 40 Bowie, Piedmont.
Architect....None.
Day's work. COST, $3000

ADDITION
(278) SW FIFTY-EIGHTH and McCall, Oakland. Addition.

Owner.....C. J. Pfrang, 5187 Claremont, Oakland.
Architect....None.
Day's work. COST, $400

ADDITION
(279) NO. 1034 FIFTY-THIRD ST., Oakland. Two-story addition.
Owner.....Chas. Helm, 665 6th street, Oakland.
Architect....None.
Contractor..G. W. Williams, 465 Rose, Oakland.
COST, $500

ADDITION
(280) NO. 5300 MANILA AVE, Oakland. Addition.
Owner.....C. W. Powell, Premises.
Architect....None.
Contractor..J. W. Torres, 709 Washington, Oakland.
COST, $700

DWELLING
(281) E CLARK, 75 S 40th street, Oakland. One-story 4-room dwlg.
Owner.....H. C. Townsend, 2167 San Antonio avenue, Alameda.
Architect....None.
Contractor..C. C. Cromley, 1280 Buena Vista avenue, Oakland.
COST, $400

DWELLING
(283) N WARWICK 500 E Perkins, Oakland. Two-story, 9-room dwlg.
Owner.....Geo. S. Beadle, 112 Market, San Francisco.
Architect....None.
Contractor..W. E. Boyd, 4135 Park Blvd, Oakland.
COST, $6200

DWELLING
(284) W TWENTY-SEVENTH AVE. 40 S E-12th street, Oakland. One-story, four-room dwelling.
Owner.....T. Hecking, 926 E-18th street, Oakland.
Architect....None.
Day's work. COST, $600

ALTERATIONS
(286) NO. 5100 TELEGRAPH AVE, Oakland. Alterations.
Owner.....F. Armanino, Premises.
Architect....None.
Contractor..Jones Bros., 5829 Lawton, Oakland.
COST, $400

DWELLING
(287) LOT 7, BLK 24, MELROSE Heights, Oakland. All work for one story, six-room dwelling.
Owner.....Jacob E. Hoover, Mt. Hamilton, Santa Clara County.
Architect....None.
Contractor..A. R. Dexter, 2212 Grove, Oakland.
Filed Feb. 16, '16. Dated Feb. 15, '16. As work progresses.
TOTAL COST, $1750
Bond, Sureties, Forfeit, none. Limit, 90 days. Plans and specifications filed.

WAREHOUSE
(288) S TWELFTH ST, 185 W Wood, Oakland. One-story warehouse.
Owner.....Pacific Coast Canning Co, 1816 12th street, Oakland
Architect....None.
Day's work. COST, $400

ALTERATIONS
(289) NO. 3813 GROVE, Oakland. Alterations.
Owner.....Fred Kuhnle, 3815 Grove, Oakland.
Architect....None.
Contractor..Gardner Co., 675 36th St., Oakland.
COST, $400

ALTERATIONS
(290) NO. 926 BROADWAY, Oakland. Alterations.
Owner.....P. Curlch, Premises.
Architect....None.
Contractor..Corbett & Bayless, 1110 Franklin, Oakland.
COST, $400

DWELLING
(300) N PRINCETON 280 E 54th Ave., Oakland. One-story, 6-room dwlg.
Owner.....J. E. Hoover, Mt. Hamilton.
Architect....None.
Contractor..A. R Dexter, 820 Athens, Oakland.
COST, $1750

DWELLING
(301) W VAN DYKE 300 N 4th Ave. Oakland. One and one-half story, 6-room dwelling.
Owner.....Geo. H. Blucher, 1724 5th Ave., Oakland.
Architect....None.
Day's work. COST, $1800

DWELLING
(302) W MAGEE AVE, 160 N Hopkins, Oakland. One-story, 5-room dwelling.
Owner.....Estelle H. Nichols, 2342 14th Ave., Oakland.
Architect....None.
Contractor..Leo L. Nichols, 2342 14th Ave., Oakland.
COST, $1900

DWELLING
(303) E COLLEGE AVE., 65 S Bryant Ave., Oakland. One-story, 6-room dwelling.
Owner.....J. Norris, 2828 Richmond Ave., Oakland.
Architect....None.
Day's work. COST, $2500

BARN
(305) W ONE HUNDRED AND SECond avenue 1000 S E-14th street, Oakland. Two-story barn.
Owner.....Manuel Martin.
Architect....None.
Contractor..L. R. Martin, 1034 Peralta Ave., San Leandro.
COST, $450

DWELLING
(306) W DALE AVE between Nova and Fairview avenues (lot 35 Nova piedmont) Piedmont. Two-story frame dwelling.
Owner.....Jas. H. Young, 702 Aileen, Oakland.
Architect....None.
Day's work. COST, $2500

DWELLING
(307) E KAINS 175 S Portland, Albany. One-story 5-room dwelling.
Owner.....Geo. A. Johnson, 2138 Derby, Berkeley.
Architect....None.
Contractor..B. D. Cushing.
COST, $1500

DWELLING
(308) E ADAMS 50 S Main, Albany. One and one-half story 6-room dwlg.
Owner.....S. Burkland.
Architect....None.
Day's work. COST, $2450

DWELLING
(309) W POMONA 350 — Main, Albany. One-story, 5-room dwelling.
Owner.....B. A. Dice.
Architect....None.
Contractor..J. M. Dice.
COST, $1500

DWELLING
(310) W ADAMS 50 N Washington, Albany. One-story, 4-room dwlg.
Owner.....A. Cantino, 816 San Pablo, Oakland.
Architect....None.
Day's work. COST, $1000

DWELLING
(311) W POMONA 600 S Main, Albany. One-story, 5-room dwelling.
Owner.....J. A. Kellogg.
Architect....None.
Day's work. COST, $1500

DWELLING
(312) N E-THIRTY-EIGHTH ST., 110 W Beaumont, Oakland. Two-story seven-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect....None.
Day's work. COST, $3250

DWELLING
(313) NE E-THIRTY-EIGHTH and Woodruff, Oakland. Two-story, 7-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect....None.
Day's work. COST, $3250

DWELLING
(314) W VALLE VISTA 90 S Sunnyslope, Oakland. Two-story, 5-room dwelling.
Owner.....Anthony & Heyer, Dalziel Bldg., Oakland.
Architect....None.
Day's work. COST, $3500

DWELLING
(315) NW E-THIRTY-EIGHTH ST., and 14th avenue, Oakland. Two-story, 6-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect....None.
Day's work. COST, $3000

GARAGE
(316) W ALICE 78 N 14th street, Oakland. Two-story brick garage.
Owner.....Owen & King, 1461 Alice, Oakland.
Architect....None.
Day's Work. COST, $8500

DWELLING
(317) S BROOKDALE 40 W Lilac, Oakland. One-story, 5-room dwlg.
Owner.....N. A. Brown, 1624 64th avenue, Oakland.
Architect....None.
Contractor..W. C. Brown, 1624 64th avenue, Oakland.
COST, $2000

(318) E ADELINE 602 S 1st, Oakland. Two-story planing mill.
Owner.....Moore & Scott Iron Works, 678 2nd street, S. F.
Architect....None.
Day's work. COST, $15,000

REPAIRS
(321) NW SIXTEENTH and Jefferson, Oakland. Repairs.
Owner.....W. O. W. Building Association, Premises.
Architect....None.
Contractor..W. L. Boldt, 2610 Grove, Berkeley.
COST, $40

DWELLING
(322) E FRUITVALE AVE 100 S Hyde, Oakland. One and one-half story seven-room dwelling.
Owner.....Alice L. Douglass, 848 Lakeshore Ave., Oakland
Architect....None.
Contractor..Chas. E. Quigley, 771 Rand Ave., Oakland.
COST, $3000

MARBLE WORK
(323) LOTS 4 AND 5, map Craig property and lots 15, 17 and W ½ lot 19, Piedmont Tract, Piedmont. All work for two marble fountains and curbing for two pools.
Owner.....Juliette Alexander, Oakland.
Architect....C. W. Dicky, Central Bank Bldg., Oakland.
Contractor..American Marble and Mosaic Co, 25 Columbus Square, S. F.
Filed Feb. 18, '16.* Dated Feb. 14, '16.
First and 15th each month.... 75%
Usual 35 days 25%
TOTAL COST, $3635
Bond, $1817.50. Sureties, Aetna Accident and Liability Co. Forfeit, none. Limit, April 15. Plans and specifications filed.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
245	Butler	Aylworth	2000
250	Davis	Davis	1000
251	Mitchell	Newby	1400
260	Brinstad	Riddell	5000
261	Wranghan	Koski	5687
264	Rattis	Rattis	1000
267	Patrick	Patrick	1750
272	Ericsson	Ericsson	1500
273	Lemon	Lemon	2500
274	Sinclair	Sinclair	3000
275	McCall	Clark	4500
291	Fraki	Ahlstrom	2000
293	Schott	Patton	2000
294	Sommarstrom	Owner	60000
295	Hengstler	Allen	1400
296	Hansen	Hansen	2000
297	Gilmour	Kidder	4800
298	Hubbard	Hubbard	1800
299	Fredrickson	Owner	1400
304	Williams	Carlson	400
319	Wilson	Larson	700
320	Mattern	Engler	400

DWELLING
(245) SE GRANT AND HEARST, Berkeley. One-story 6-room dwelling.
Owner.....B. F. Butler and Geo. Aylworth, 333-A 49th, Okd.
Architect...None.
Day's work. COST, $2000

DWELLING
(249) S BLAKE 175 W Mathews, Berkeley. One-story 5-room dwelling.
Owner.....Chas. A. Werner, 2116 10th, Berkeley.
Architect...None.
Day's work. COST, $1500

DWELLING
(250) S BANCROFT WAY 40 E McGee Berkeley. One-story 5-room dwlg.
Owner.....J. W. Davis, 1631 Allston Way, Berkeley.
Architect...None.
Day's work. COST, $1000

DWELLING
(260) LOT 5, BLK 9, Map Claremont, Berkeley. Two-story eight-room frame dwelling.
Owner.....C. W. Brinstad, 15 Eucalyptus, Berkeley.
Architect....None.
Contractor..Riddell Building Service Corp., 2247 Telegraph, Berkeley.
Filed Feb. 14, '16. Dated Feb. 9, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted ..... ¼
Usual 35 days ..... ¼
TOTAL COST, $5000
Bond, Sureties, Forfeit, none. Limit, 90 days. Plans and specifications filed.

DWELLING
(261) N 40 LOTS 1 AND 2, BLK 16, Daley Scenic Park, Berkeley. All work except heating for two-story, eight-room dwelling.
Owner.....John B. Wrangham, Berkeley.
Architect....John Hudson Thomas, First National Bank Bldg., Berkeley.
Contractor..Matt L. Koski, 35 Ramona Ave., Oakland.
Filed Feb. 14, '16. Dated Feb. 8 '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted ..... ¼
Usual 35 days ..... ¼
TOTAL COST, 5687
Bond, Sureties, Forfeit, none. Limit, 150 days. Plans and specifications filed.

ADDITION
(264) NO. 2628 BENVENUE AVE, Berkeley. Addition.
Owner.....Chas. Rattis, Premises.
Architect....None.
Contractor..A. Roust, 6508 Raymond, Oakland.
COST, $1000

DWELLING
(267) W EDWARDS, 230 N Channing Way, Berkeley. One-story, five-room dwelling.
Owner.....B. M. and H. G. Patrick, 2101 Hopkins street, Berkeley.
Architect....None.
Day's work. COST, $1750

DWELLING
(272) E BRUCE, 190 N BANCROFT, Berkeley. One-story, five-room dwlg.
Owner.....Carl Ericsson, 1200 Masonic avenue, Berkeley.
Architect....None.
Day's work. COST, $1500

DWELLING
(273) E OXFORD, 500 N Los Angeles, Berkeley. One-story, five-room dwlg.
Owner.....P. D. Leman, 1622 Ashb avenue, Berkeley.
Architect....None.
Day's work. COST, $250

DWELLING
(274) N OXFORD, 375 N MARIN, Berkeley. One-story, eight-room dwlg
Owner.....C. E. Sinclair, 5333 Lockslley avenue, Oakland.
Architect....None.
Day's work. COST, $300

DWELLING
(275) N ROSE ST, being ptn lot block 1, map amended map Hopkin Terrace No. 4, Berkeley. All worl for two-story, eight-room dwelling
Owner.....F. A. McCall.
Architect....None.
Contractor..Samuel Clark, 1384 15th Oakland.
TOTAL COST, $450
Filed Feb 14, '16. Dated Feb. 14, '16
Frame up .....
Brown coated .....
Completed and accepted .....
Usual 35 days .....
Bond, $2500. Sureties, S. A. Kaase and W. H. Wandesforde. Forfeit, $2 Limit, 90 days. Plans and specification filed.

(291) NO. 1115 CHAUCER ST., Berkeley. One-story, 5-room dwelling
Owner.....O. Franki, 1920 10th street Berkeley.
Architect....None.
Contractor..E. Ahlstrom, rear 2303 10th, Berkeley.
COST, $200

GARAGE
(293) S UNIVERSITY AVE, 258 W California, Berkeley. One-story frame and galvanized iron garage.
Owner.....Walter E. Schott, head L Roy avenue, Berkeley.
Architect....None.
Contractor..Wm. Patton, 2127 Blake Berkeley.
COST, $200

BRICK APARTMENTS
(294) NW HASTE and Telegraph Berkeley. Four-story, 100-room brick apartments.
Owner.....Sommarstrom Investment Co.
Architect....Richardson & Burrell, Albany Bldg., Oakland.
Contractor..Sommarstrom Bros., 301 Oakland avenue, Berkeley.
COST, $60,000

ADDITION
(295) NO. 2620 WARRING, Berkeley. Addition.

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Owner.....Louis I. Hengstler, Prem.
Architect....None.
Contractor..F. E. Allen, 468 31th St., Oakland.
COST, $1400

DWELLING
(296) E BONITA 150 S Rose, Berkeley. One-story, 5-room dwelling.
Owner.....Louis O. Hansen, 1128 The Alameda, Berkeley.
Architect. ..None.
Day's work. COST, $2000

DWELLING
(297) NO. 1227 BONITA, Berkeley. Two-story, 10-room dwelling.
Owner.....J. W. Gilmore.
Architect....Warren Perry, 2636½ Dwight Way, Berkeley.
Contractor..Kidder & McCullough, 2075 Addison, Berkeley.
COST, $4800

DWELLING
(298) NO. 1811 TODD, Berkeley. One-story, 5-room dwelling.
Owner.....W. D. Hubbard, 3216 Ellis, Berkeley.
Architect....None.
Day's work. COST, $1800

DWELLING
(299) W SHASTA 39 S Tallac, Berkeley. One and one-half story, 5-room dwelling.
Owner.....Peter Fredrickson, 2070 University Ave., Berkeley.
Architect....None.
Day's work. COST, $1400

ALTERATIONS
(304) NO. 1930 Parker, Berkeley. Alterations.
Owner.....W. P. Williams, Premises.
Architect....None.
Contractor..C. H. Carlson, — Hearst avenue, Berkeley.
COST, $400

DWELLING
(319) NO. 1112 SAN PABLO, Berkeley. One-story, four-room dwelling.
Owner.....Charles Wilson, 1112 San Pablo, Berkeley.
Architect....None.
Contractor..John Larson, 1032 Stanage avenue, Albany.
COST, $700

GARAGE
(320) E HILLEGASS 250 S Stuart, Berkeley. Garage.
Owner.....G. A. Mattern, 2701 Regent street, Berkeley.
Architect....None.
Contractor..Louis Engler, 2721 Haste, Berkeley.
COST, $400

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
282	West End Bldg.	Powell	2663
285	Moller	Jensen	450
292	Anthony	Heyer	3000

OFFICE BUILDING
(282) E WEBSTER between Haight and Lincoln, Alameda. One-story brick office building.
Owner.....West End Building Association, Webster and Lincoln, Alameda.
Architect....None.
Contractor..Powell Bros. Construction Co., 2708 Harrison avenue, Alameda.
COST, $2663

REPAIRS
(285) NO. 2117 ALAMEDA AVE, Alameda. Repairs.
Owner.....S. Moller, Premises.
Architect....None.
Contractor..O. Jensen, 2707 Harrison avenue, Alameda.
COST $450

DWELLING
(292) S SAN PEDRO 400 W The Alameda, Berkeley. Two-story, 6-room dwelling.
Owner.....Mark W. Anthony, Grand Ave and Perkins, Oakland.
Architect....Schirmer, Bugbee & So., Dalziel Bldg., Oakland.
Contractor...Anthony & Heyer, Dalziel Bldg. Oakland.
COST, $3000

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Feb. 11, 1916—LOT 12 Map Paradise Tract, Okd. J W Phillips to A F Waid.....Feb. 8, 1916
Feb. 11, 1916—LOT 44 Sbdvn 19 Map Resbdvn Peralta Park, Bky. Guy Taylor to whom it may concern... .....Feb. 11, 1916
Feb. 14, 1916—N 40 OF E 108 Lot 9 Blk "J" Map Berry Bangs Tract No 2, Bkly. Samuel M Hussey to Cederborg & Anderson.....Feb. 14, 1916
Feb. 15, 1916—N THIRTY-EIGHTH street, 229.32 E Apgar, E 35, N 75.91, SW 35, S 67.96, Oakland. Jesperson & Dippo to whom it may concern .....Feb. 9, 1916
Feb. 15, 1916—SE APGAR, 299.32 NE 38th street, NE 35, SE 75.91, SW 35, N 67.96, Oakland. Jesperson & Dippo to whom it may concern.. .....Feb. 9, 1916
Feb. 15, 1916—PTN LOTS 34 AND 35, Map Piedmont Manor, Piedmont. Henry Michels to Joe Boeddecker .....Feb. 15, 1916
Feb. 15, 1916—LOT 13, Map Young's Subdivision lots 27 to 38 inclusive, Blk 4, Spaulding Tract, Berkeley. Markus H. Blomquist to John Kuivala .....Feb. 14, 1916
Feb. 15, 1916—NE COLLEGE AND Harwood avenue, N 107.45 E 60.66 S 100 W 100, Oakland. Marion H. Dunham to whom it may concern .....Feb 7, 1916
Feb. 16, 1916—NE BAYO VISTA AVE 40 N Monte Vista Ave, N 40xE 120, Alameda. F. N. Strang to whom nt may concern .....Feb. 11, 1916
Feb. 14, 1916—LOT 16, BLK 3, Thous-
Feb. 16, 1916—LOT 35 BLK 4, Oak Ridge, Claremont, Berkeley. Margaret L. Blair to Oliver Legault .....Feb. 15, 1916
Feb. 16, 1916—PTN LOT 20, Map Bray Tract, Oakland. John B. Taylor to T. H. Legris.....Feb. 10, 1916
Feb. 17, 1916—LOT 7, BLK K, map Grand Avenue Heights by the Park, Oakland. Estelle H. Nichols to whom it may concern.Feb. 17, 1916
Feb. 17, 1916—LOT 8, BLK K, map Grand Avenue Heights by the Park, Oakland. Estelle H. Nichols to whom it may concern.Feb. 17, 1916
Feb 17, 1916—LOT 14, BROOKSIDE Manor, Alameda. Enice C. Wiser to Gordon J. Wiser....Feb. 14, 1916
Feb. 17, 1916—SW EIGHTH ST. AND Stanford Ave S 121.66, SW 880.10, SW 106, S 365, E 61.26 on curve to right 198.07, NW 41.73, containing 2.980 acres, Emeryville. Marchant Calculating Machine Co. to Van Sant-Houghton Co.....Feb. 16, 1916
Feb. 17, 1916—S MADELINE ST., 50 W Laurel St., 50 on Madeline, Oakland. Emma Coburn to whom it may concern .....Feb. 16, 1916
Feb. 17, 1916—LOT 7, DIAMOND Vista Terrace, Oakland. F. A. Kurtz to whom it may concern.. .....Feb. 15, 1916
Feb. 18, 1916—E GRAND AVE W Park View Terrace N on curve to right 97.67 NE 98.55 SE 40.56 SW 100, Oakland. Chas. J. and Carrie B. Rousseau to Anderson & Ringrose .....Feb. 11, 1916

LIENS FILED

ALAMEDA COUNTY.

Feb. 11, 1916—S DELAWARE 219.17 E Bonita Ave E 40xS 95, Berkeley. Contra Costa Bldg Materials Co vs S J Cinnamond, John B Woolfrey and Anna Brewer.....$134.45
Feb. 11, 1916—N ARLINGTON AVE 231.97 W Grove W 40 N 102.65 NE 40 SE 102.08, Okd. Pacific Mfg Co vs J J Benton and Gustaf Johanson $172.10
Feb. 11, 1916—LOT 98 Map Santa Fe Tract No. 20, Okd. A H Bar (Bar Mercantile Co) vs J J Benton and Gustaf Johanson $30
Feb. 14, 1916—N MONTANA 275 W Curran Ave W 40xN 100, Oakland. Hunter Lumber Co vs A B Chase... ....$275.34
Feb. 15, 1916—LOT 9, BLK 1, Amend-Oakland Tp. H. E. Franks vs. Omer N. Kruschke and A. Y. Skee $84.81
Feb. 16, 1916—NO 3428 SALISBURY being lot 96, Galindo Tract, Oakland. Eureka Mill and Lumber Co. vs. S. L. Messick, A. L. Duesbury, James Doe Duesbury, W. P. Callaghan and J. C. McIntosh..$96.44
Feb. 17, 1916—LOT 20, BLK 22, map Northbrae, Berkeley. George H. Tay Co. vs. Thomas Neal and W. N. Taylor $65.56

BUILDING CONTRACTS.

SAN MATEO COUNTY.

RESIDENCE
LOT 17, BLK 7, CROCKER ESTATE Tract, Subdivision No. 1, Daly City. All work for one-story frame residence.
Owner.....Arthur Fonesca and Annie Fonesca, San Francisco.
Architect....O. E. Evans & Co., 2569 Mission, San Francisco.
Contractor..O. E. Evans & Co., 2569 Mission, San Francisco.
Filed Feb. 15, '16. Dated Feb. 5, '16.
Frame up $618.75
Brown plastered 618.75
Accepted 618.75
Usual 35 days 618.75
TOTAL COST, $2477
Bond, Sureties, Forfeit, none. Limit, 90 days. Plans and specifications filed.

LIENS.

SAN MATEO COUNTY.

Feb. 15, 1916—LOT 7, BLK 1, Easton Addition to Burlingame, Burlin-

game, Cal. Sydney Brittain vs. Grace W. Eaton $77.50

COMPLETION NOTICES.

SAN MATEO COUNTY.

Feb. 14, 1916—LOTS 1 AND 2 BLK 6, range E, Town of Mezesville (Redwood City). Ole Johnson to whom it may concern .....Feb. 5, 1916

Feb. 11, 1916—LOT 25, BLK 1, Burlingame Terrace, Burlingame, Cal. A. E. Elford to Charles Scanlon... ..... Feb. 8, 1916

RELEASE OF LIENS.

MARIN COUNTY.

Feb. 15, 1916—SAUSALITO, Marin County. Duncan's Mills Land and Lumber Co. to Samuel Black..$90.21

COMPLETION NOTICES.

MARIN COUNTY.

Feb. 15, 1916—SAN ANSELMO, Marin County. C. C. Hansen to Hans H. Jepson .....Feb. 11, 1916

LIENS FILED.

MARIN COUNTY.

Feb. 14, 1916—SAN RAFAEL, Marin County. Robert Albertsen vs. Florence Obermuller and Geo. Obermuller $300

BUILDING CONTRACTS.

FRESNO COUNTY.

DWELLING AND GARAGE
LOTS 17, 18, BLK 2, Bartlett Heights, Fresno. All work for dwelling and garage.
Owner.....A. J. Sowles, 2804 Madison, Fresno.
Architect....None.
Day's work. COST, $1800

DWELLING
LOTS 1 AND 2, BLG 17, BELMONT Ad, Fresno. All work for dwelling.
Ower.....Sam Eversal.
Architect....None.
Contractor..E. P. Smith, 1181 Angus, Fresno.
COST, $2000

ALTERATIONS
LOTS 1 TO 6, BLK 82, Fresno. Move freight elevator and uild two rooms in basement.
Owner.....Fresno Republican, Tulare and K, Fresno.
Architect....None.
Contractor..R. Petersen & Co.
COST, $1400

COMPLETION NOTICES

FRESNO COUNTY.

Feb. 11, 1916—LOTS 15, 16, BLK 45, East Fresno. Geo. G. McChesney to whom it may concern..... .....Feb. 11, 1916

COMPLETION NOTICES

FRESNO COUNTY.

Feb. 15, 1916—SW FORTHCAMP and Mildreda Aves, Fresno. Chester H. Rowell to E. J. Farr....Feb. 15, 1916

BUILDING CONTRACTS

SACRAMENTO COUNTY.

MOVE DWELLING
NO. 1017 F ON W ½ LOT 6, E-F-10-11, Sacramento. All work to move and place on brick foundation one story frame dwelling from school site at 18th and E to No. 1017 F on W ½ lot 6, E-F-10-11.
Owner.....C La Rue, 1307 F, Sacramento.
Architect....None.
Day's work. COST, $500

REPAIRS
MAGNOLIA and 34th on E ½ of S ½ of lot 9, olock 21, South Sacramento. Place and cut new window openings in building and other repairs.
Owner....Pacific Tel. & Tel. Co. (lessee), 1411 J, Sacramento.
Architect....None.
Contractor..G. E. Specht, 3218 5th avenue, Sacramento.
COST, $400

ICE CREAM PARLOR
THIRTY-SECOND and Stockton Road, A. A. Heilborn Tract, Sacramento. All work for lunch room and ice cream parlor.
Owner.....A. A. Heilborn Estate, 605 J, Sacramento.
Architect....None.
Contractor..C. E. Carrier, 515 Q, Sacramento.
COST, $300

REPAIRS
LOT 1, 6-7-K-L, Sacramento. Lay floor over third story of brick building and general repairs.
Owner.....John Breuner Co, 608 K, Sacramento.
Architect....None.
Contractor..W. R. Saunders, 2810 1, Sacramento.
COST, $800

REPAIRS
LOT 6828 HILLCREST PARK, Sacramento. Remodel roof and finish off rooms in attic and build brick chimney on one-story frame dwelling.
Owner.....John Miller, Freeport road, Sacramento.
Architect....None.
Contractor..F. A. Holdener, 522½ M, Sacramento.
COST, $500

ALTERATIONS
NO. 1300 N on W ½ of N ½ lot 1, N-O-13-14, Sacramento. Bath and partition and remodel plumbing.
Owner.....Dr. C. M. Faris, H between 11th and 12th, Sacramento.
Architect....None.
Contractor..Sacramento Home Builders, Forum Bldg., Sacramento.
COST, $300

DWELLING
PEARL between Clark and Florence Aves, 43 feet lots 102 and 105, E Sacramento. All work for one-story frame dwelling, four rooms with concrete foundation.
Owner.....R. H. Muddox 1315 29th, Sacramento.
Architect....None.
Contractor..S. Mackey, 1048 Crandall, Sacramento.
COST, $1700

DWELLING
NO. 716 THIRTEENTH on N ¼ lot 5, G-H-12-13, Sacramento. All work for one and one-half story frame dwelling (8 rooms and bath) with concrete foundation.
Owner.....James McDermott, 419 S, Sacramento.
Architect....None.
Contractor..W. R. Saunders, 2810 I, Sacramento.
COST, $2800

ALTERATIONS TO BANK
FOURTH AND J, on lot 5, I-J-3-4, Sacramento. All work to place counters, bank fixtures, etc., in banking room and place sidewalk and install elevator in three-story brick and stone bank building and club room.
Owner.....California National Bank, 4th and J, Sacramento.
Architect....None.
Contractor..C. J. Mathews, Forum Bldg., Sacramento.
COST, $3000

BUILDING CONTRACTS

SONOMA COUNTY

FRAME LAUNDRY
NO. 418 THIRD ST., Santa Rosa. All work for two-story frame and stucco Franch hand laundry.
Owner.....L. Monseigne.
Designer...Frank A. Sullivan, Santa Rosa.
Contractor..C. D. Roberts, Santa Rosa.

BUNGALOW
NO. 222 OLIVE ST., Santa Rosa. Five-room bungalow.
Owner.....A. Maloof.
Architect.....one.
Contractor..C. D. Roberts.
COST, $1600

COMPLETION NOTICES.

SAN JOAQUIN COUNTY.

RECORDED ACCEPTED
Feb. 8, 1916—N ST. AND LOWER Sacramento Road, Stockton. (El Dorado School). Board of Education of Stockton to W Morgan & Co.....Feb. 2, 1916

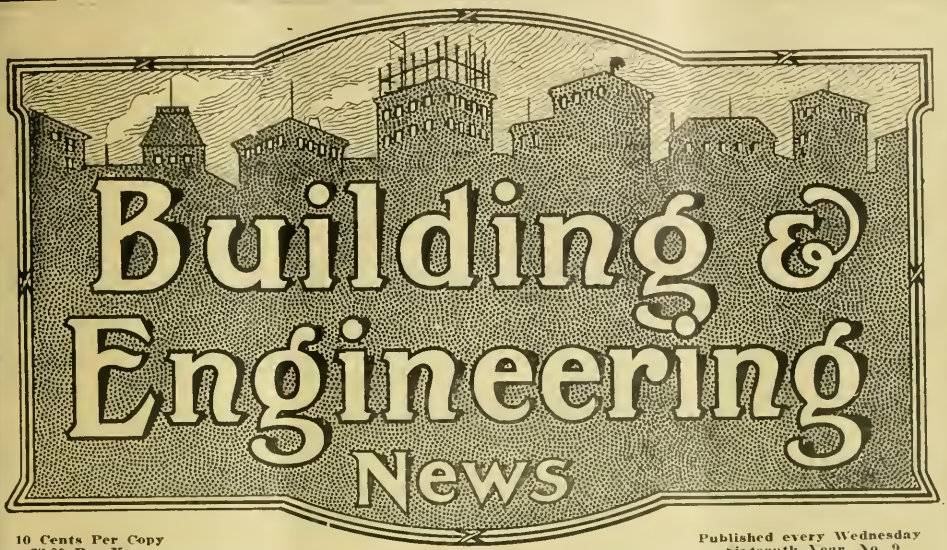
ENGINEER APPOINTED.

SACRAMENTO, CAL.—Harry Belle of Santa Ana has been appointed assistant state engineer at a salary or $3000.

EXTENSION OF CARTAGENA WATER WORKS SYSTEM.

[Vice Consul Leonard B. Modica, Cartagena, Colombia.]

The Colombian Congress has approved the proposal of an English firm for the purchase and extension of the Cartagena waterworks system. The work will mean the extension of a pipe line to a point in the Magdalena River about 65 miles from Cartagena, for the purpose of furnishing an adequate water supply for the city's needs, including industrial and shipping requirements. The detals of the contract have not yet been arranged, and it is probable that the work will not be begun immediately.



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Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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National Builders In Annual Convention.

Telegram From Ralph McLeran, San Francisco Delegate, States Convention A Great Success.

On February 22, 23 and 24 the National Association of Builders' Exchanges held its Annual Convention in Baltimore, Maryland, with headquarters at the Emerson Hotel.

The General Contractors' Association of this city are members of the National body and this year Mr. Ralph McLeran was selected as its delegate to the Annual Convention. Mr. McLeran has wired his Association that the convention has been a big success, with eight thousand of the building fraternity represented.

A telegram was received from Mayor Rolph during the convention, inviting the builders to come to San Francisco for their convention in 1917 and the New York delegates, among others were strong supporters for San Francisco in 1917. However, the main fight lay between Atlanta, Detroit and Indianapolis, as our San Francisco delegation did not consider they had a chance for 1917. Delegate McLeran has wired that Atlanta has won the fight and the convention for 1917 will be held in that city.

The following important subjects were considered and dealt with at the Convention:

Co-operation, between contractors of all classes for mutual advancement.

New Contract Documents—Method of further extending the use of same.

Workmen's Compensation Laws—Should be equitable, uniform and free from unnecessary cost and burdensome provisions to builders; at the same time reimbursing injured workmen fully, and properly protecting the employer. A national movement will be started to make such laws uniform as far as possible.

Quantity Survey—Before endorsing, data should be gathered, carefully investigated, and serious consideration given this important subject.

Code of Ethics—Governing opening of bids, awarding contracts, refiguring of work after publicity to the bids originally submitted, payment for plans, paying for bids when rejected without awarding contract, compensation for certain classes of bids, protesting against unfair and unequal competition, and a number of other important problems that will eliminate friction and promote fair dealing towards owner, architect and contractor.

Interchange of Credit Information—Important report in connection therewith and recommendations.

Out-of-Town Competition—Formulating proper rules governing same. Same to be promulgated by the National Association and adopted by the local building organizations; to be equitable and universal.

To Inaugurate Policy—To live and let live.

Educational Data — Demonstrating what hurts one hurts all and what helps one helps all.

Equalization in Price of Contract Bonds—Many builders believe that the cost of bonds under a contract where the architect has arbitrary power should be made considerable in excess of the charge for a bond where the contract provides for arbitration.

The convention will be a meeting strictly for **Work** and the **Betterment** of the **Building Industry.** The delegates are to meet for serious business to improve the conditions under which building operations are conducted.

The above program will give some idea of the scope of the work which is ahead of the convention and in addition there will be some important reports from special committees. A "Committee on Labor" is gathering together, through all the medium of information sheets sent to all organizations who are members, a report on labor conditions throughout the country, which should prove of vast interest to the business in general.

We shall take pleasure in reporting later on as to the actual work accomplished by the Convention.

President Wilson Receives the Delegates.

On Friday, February 25, after the close of the Convention, President Wilson held a special reception at the White House to the visiting delegates, and delegate McLeran has wired the General Contractors' Association that over 200 were at the reception and met the President.

It is worthy of note that this is the first time that the building business of the United States has been officially received by a President and the National Association is therefore to be congratulated in arranging the reception.

Among the prominent speakers at the Convention were the following: R. Clipston Sturgis of Boston, Past President of the American Institute of Architects; His Excellency Honorable Emerson C. Harrington, Governor of Maryland; Honorable James H. Preston, Mayor of Baltimore; H. L. Lewman, President of the National Association of Builders' Exchanges; John Trainer, Vice President of the National Association and James T. Emery, Esquire, of Washington, D. C.

Among the entertainment features of the Convention was an oyster roast, theatre party, automobile trip, grand ball in the Emerson Roof Garden, reception by President Wilson and a visit to the United States Naval Academy at Annapolis.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $13,500. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name not given. Location, south Washington 60 west of Divisadero, covering an area of 40 by 60 feet. Will contain six apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Wall beds and private baths. Steam heat and hot water system. Bath rooms tile wainscot and composition floors Exterior covered with rustic and cement plaster. Plans complete and contract to be awarded at once.

SAN FRANCISCO—Apartment houses 2, 3 story and base, brick and frame. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not given. Location, northwest corner of Post and Octavia streets, covering an area of 50 by 120 feet. Each building will contain fifteen suites of two and three rooms. Interiors finished in pine and hardwood with some hardwood floors. Steam heat, oil burning equipment and hot water system. Bath rooms composition floors. Marble and tile vestibules. Exteriors covered with pressed brick veneer. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $25,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Mr. Kingston. Location, Ellis between Larkin and Polk streets. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine and elm panels with some hardwood floors. Steam heat, hot water system and automatic elevator. Marble and tile wainscot. Bath rooms tile wainscot and composition floors. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame and brick. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southwest corner of 20th and Dolores streets. Will contain seven apartments of three and four rooms. Interior finish pine, mahogany and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms finished in tile. Hot water system. Marble and tile wainscot in entrance. Exterior covered with pressed brick veneer. Plans complete and figures to be called for shortly.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $60,000. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, East Oakland. Will contain six apartments of three and four rooms. Interior finish pine and redwood with some hardwood floors. Wall beds and private bath rooms. Hot water system. Composition floors in baths. Exterior covered with cement plaster. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Apartment house, 2 story and base, frame, $10,000. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner, Mr. Elsnp. Location, Macdonald avenue. Will contain 12 suites of three rooms and bath each. Interior finish pine throughout. Some hardwood floors. Gas radiators. Bath rooms composition floors. Wall beds. Exterior faced with cement plaster. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Apartment house, 3 story and base, frame, $5,000. Architect, none. Owner Herbert F. Brown, Wells-Fargo Bldg., S. F. Location, Broadway. Will contain a number of two and three room apartments. Interior finish pine. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

PORTLAND, ORE.—Apartment house, 2 story and base, brick, $30,000. Architects, F. E. Bowman & Co., Commercial Club Bldg., Portland. Owners, F. E. Bowman & Co. Location, 19th and Elm streets. Will contain a number of two and three room apartments. Interior finish pine and hardwood. Wall beds. Steam heat and hot water system. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architect, none. Owner, Walker R. Props, 1301 Gough street, S. F. Location, southwest Jackson and Leavenworth, covering an area of 48 by 56 feet. Will contain fifteen suites of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $40,000. Architect, Joseph Cahen, 45 Kearny St., S. F. Owner, I. Rosenberg. Location, southeast corner Washington and Presidio avenue. Designed for large residential apartments, and will contain twelve suites of five rooms and bath. All apartments will have sleeping porches. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning plant and hot water system. Bath rooms finished in tile. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 4 story and base, brick and steel, $35,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, J. G. Kincannon, 215 Montgomery street. Location, south Post west of Polk, covering an area of 30 by 120 feet. Will contain twenty suites of two and three rooms. Interior finish pine and southern gum. Some hardwood floors. Steam heat, oil burning plant and hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $13,500. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name not given. Location, south Washington west of Divisadero, covering an area of 40 by 60 feet. Will contain six suites of two and three rooms with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and hot water system. Oil burning equipment. Bath rooms tile. Exterior covered with cement plaster and rustic. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $15,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, 41st street and Manila avenue. Will contain a number of two and three room apartments with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and oil burning system. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

LOS ANGELES, CAL. — Apartment house, 4 and 6 story and base, brick and steel,, $100,000. Architect, C. F. Borton, Hibernian Bldg., L. A. Owner C. F. Borton. Location, Olive street near 3rd. Will contain 125 rooms arranged in suites of two and three rooms. Wall beds and private baths. Interior finish pine and hardwood. Hardwood floors. Steam heat, oil burning system, elevator service and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

LOS ANGELES, CAL. — Apartment house, 4 story and base. Class C construction, $50,000. Architect, none. Owner, Mrs. Cecelia Bart. Location, 538 Fremont avenue, covering an area of 60 by 130 feet. Will contain 93 rooms arranged in two and three room suites. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Wall beds. Exterior faced with pressed brick. Plans complete and work to be carried on by L. F. S. Syndicate, 622 Investment Bldg., L. A.

BONDS.

WOODLAND, YOLO CO., CAL.—The City Council has adopted a resolution calling for a bond election for the extension of the sewer system, the improvement and extension of the water system and the establishment of a city

ice plant. The election will be held the early part of May. It is thought the ice plant will cost about $12,000.

Estimates for the extension of the sewer were placed at $5,730; for extension of water mains by nearly 22,000 feet at $22,661.30, and for improvements on the Grand avenue pumping plant at $20,275, making a grand total for sewer and water improvements of $55,216.30.

FULLERTON, ORANGE CO., CAL.—An election will be held about May 1st, for the purpose of voting bonds to build concrete bridges and repairing highway damage. Col. S. H. Finley is preparing a report of damage to be presented to the Supervisors at their next meeting in Santa Ana.

CASA GRANDE, ARIZ.—A lighting plant is to be constructed for municipal needs out a portion of the money derived from a $35,000 bond issue recently voted. Architect Sidney Mashbir of Tucson has drawn the plans.

NEWPORT BEACH, ORANGE CO., CAL.—A municipal gas plant and distributing system are to be constructed by the city as soon as possible, following the States offer to purchase $23,000 of the bonds voted December 28.

RIVERSIDE, RIVERSIDE CO., CAL.—A bond election of $30,000 for roads in the Coral Reef district carried at the recent election.

DOUGLAS, ARIZ.—An election to vote bonds between $750,000 and $1,200,000 for the construction of approximately 525 miles of highways in Cochise County, will be asked at the March meeting of the Supervisors by a committee representing the County Taxpayers Association and the County Road Bond Association. The work has been outlined by County Engineer Ryan.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—A special election will be held at San Luis Obispo on March 3, for the purpose of voting bonds in the sum of $100,000 for the erection of a new school building and alterations to the present schools.

BARSTOW, SAN BERNARDINO CO., CAL.—A special election will be held April 7th in the Barstow Union High School District to vote bonds in the sum of $30,000 for purchasing a site, and for the erection of a school building.

MODESTO, STANISLAUS CO., CAL.—The Board of Education of the Modesto public schools has called a special elecvoting on the issuing of $200,000 worth of bonds for the construction of a high school building and a grammar school. The high school issue will be for $160,000 and the grammar school for $40,000. The new grammar school will be located on the west side.

SAN DIEGO, SAN DIEGO CO., CAL.—March 31st will probably be designated as the date for the special bond election for the purpose of securing the voters' assent to the transfer of $175,000 bond money on hand to the water system repair fund, and the voting of $1,000,000 new bonds for rebuilding damaged portions of the water system and Dulzura conduit.

AUBURN, PLACER CO., CAL.—The City Council has sold the $22,000 bond issue, providing for the following improvements Extension of the sewer system, $15,000; fire trucks, $5,000; fire alarm system, $2,000.

DANVILLE, CONTRA COSTA CO., CAL.—Preparations are being made to call a bond election to vote bonds for the erection of a new high school.

PITSBURG, CONTRA COSTA CO., CAL.—According to reliable information at hand the Santa Fe Railway Company will erect a new depot at Pittsbudg during the present year.

An item of expense covering such improvement was included in the annual budget, and has received the endorsement of the main officials of the company.

EUREKA, HUMBOLDT CO., CAL.—That Eureka be bonded in the sum of $200,000 to make possible a comprehensive system of street improvement was suggested in a report made by President J. D. Fraser of the Eureka Development Association. Receiving the suggestion with unanimous approval, the association authorized the appointment of a committee to take steps to place the proposed bond issue before the people of Eureka. If the plan is followed out successfully a special election will be called.

BRIDGES, DAMS AND HARBOR WORK

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery, labor and materials necessary for constructing a reinforced concrete bridge over Zaca Creek at station No. 448-00 on the line of the State Highway in the Third Road District.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, hinged, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery and labor necessary for the construction of a three-hinged concrete arch bridge over Gaviota Creek at station No. 103-65 to 104-79 on the line of the State Highway in the Fourth Road District.

SALEM, ORE.—Bridge, steel and concrete, $250,000. Engineer, State Engineer Lewis, Salem. Owners, Marion and Polk Counties. Acting upon a petition present jointly by the county courts of Marion and Polk Counties, the State Highway Commission at their last meeting authorized the State Engineer to prepare plans and specifications for the proposed Marion-Polk county bridge. The petition asked further that the Highway Commission superintend the construction of the bridge and this request will also be granted. Bids will be called for on the completion of the plans.

MERCED, MERCED CO., CAL.—Bridge, concrete and timber. Cost not stated. Engineer, County Surveyor, Merced. Owners, Merced County. At the last meeting of the County Board of Supervisors plans and specifications prepared by the County Surveyor for a bridge over Edendale Creek on the Cox Ferry road in Road District No. 3, the bridge to be known at Bridge No. 45, were approved and bids were ordered received up to March 7th, 10 a. m. The proposed structure will be of wood and concrete construction. Plans and specifications together will full information may be had from the County Clerk at Merced.

MERCED, MERCED CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Merced. Owners, Merced County. At the last meeting of the County Board of Supervisors the County Surveyor was instructed to prepare plans and specifications for a reinforced concrete bridge to be constructed over the creek about one-half mile north of Bear Creek bridge on the Six Mile Grade and Snelling Road in Road District No. 1. Bids on this work will be called for on the completion and acceptance of the plans by the Supervisors.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, 2, reinforced concrete and steel. Cost not stated. Engineers, Mayberry & Johnson, Santa Barbara. Owners, Santa Barbara County. Plans for two highway bridges prepared by Engineers Mayberry & Johnson have been accepted by the Highway Department and bids have been ordered called. The structures are known as 386 plus 60 and 289 plus 25, in section C of the State Highway in Santa Barbara County. They are the bridges near Los Alamos over the San Antonio or Los Alamos creek near the Calef ranch. Plans may be had from the County Clerk at Santa Barbara.

LOS ANGELES, CAL.—Bridge, steel and concrete, $35,000. Engineer, City Engineer, L. A. Owners, City of Los Angeles. The City Council agreed to enter into an arrangement for the building of the Sherman way bridge under which the city will pay one-fourth of the cost, an assessment district another fourth and the Pacific Electric one-half.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, 3, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery, labor and materials necessary for the construction of a three-hinged concrete bridges. The bridges will be located as follows: Skew bridge, Gaviota on the line of the State Highway in Creek at station No. 108-49 to 100-63, the Fourth Road District.

SALEM, ORE.—Bridge construction. Cost as follows. Engineer, State Engineer J. H. Lewis, Salem. Owners, State of Oregon. The bridge department, under State Engineer J. H. Lewis, has sent out the following plans and specifications for which proposals for construction will be accepted by the counties within a short period: One 360-foot reinforced concrete viaduct on B street near the college at McMinnville, estimated cost, $14,000. One 160-foot steel span between Athey's Island and the mainland over Williamette slough in Yamhill County below Wheatland. The estimated cost for this structure is $13,000. One 100-foot steel span at Veronia in Columbia County over Rock Creek and one 50-foot plate girder span over Tide Creek in Columbia County near Deer Island. The Highway Department has been requested to supervise the construction of the 360-foot reinforced concrete viaduct and the 160-foot steel span between Athey's Island and the mainland, both in Yamhill County. Bids will be called for shortly on this work.

Contracts Awarded.

SAN FRANCISCO—Wharf repairs, timber construction, $99,317. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Contractors, HealyTibbitts Construction Co., S. F. Contract price, $99,317. A complete list of the bids received for this work, reconstruction of Pier No. 13, will be found under the heading of San Francisco in this issue.

MARTINEZ, CONTRA COSTA CO., CAL.—Bridge, steel and reinforced concrete, $10,471. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Contractors, Chambers & Heafey, Bacon Bldg., Oakland. Contract price, $10,471. Following is a complete list of the bids received: J. H. Brown, $13,985.24; B. McDonald, $12,111.25; J. R. Cahill, $12,846; Chambers & Heafy, $10,471; C. A. Bruce, $11,673; Peterson & Grier, $12,640; Marsh Bros. & Gardinier, $13,100; Marin Rock Co., $11,103; F. F. Moore, $13,445; Whitlock & Gorrill, $11,900; Alfred Matson, $10,925; McRae & Layaz, $11,310; Chas E. Cotton, $10,971; Gilderslieve Construction Co., $11,030; M. E. Farnandez, $11,012; V. M. Price, $11,-700.

CHURCHES

NAPA, NAPA CO., CAL.—Church, 1 story and base, reinforced concrete, $30,000. Architect, L. M. Turton, Napa. Owners, Centenary Methodist Church. Designed in the Mission style. Will contain main auditorium, Sunday school rooms, social halls and pastor's study. Interior finish pine and ornamental plaster. Art glass windows. Furnace heat and oil burning equipment. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

PORTLAND, ORE. — Mausoleum, 1 story and base, reinforced concrete and granite, $50,000. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Portland Mausoleum Co. Contractors, Parker & Banfield, Columbia Bldg., Portland. Contract price, $50,000.

COURT HOUSES.

SAN RAFAEL, MARIN CO., CAL.—Court house wiring. Cost as follows. Architect, none. Owners, Marin County. At the last meeting of the Board of Supervisors bids were opened as follows for wiring the court house: Bogle's Electric Works, $1,040; Ross Electrical Works, $924; Mutual Electric Co., $710; G. W. Fox, $920. The two lowest bids were taken under consideration.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Factory, 2 story and base, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owners, J. Allec Cleaning and Dyeing Works. Location, 2164 Folsom street, covering an area of 150 by 200 feet. Construction fire proof with reinforced concrete floors and walls. Offices finished in pine and hardwood. Steam heat, oil burning equipment and special machinery. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

OAKLAND, CAL. — Flour milling plant and wharf, 4 story, reinforced concrete, $150,000 or more. Engineer, Robert Hemmingsen, Security Bank Bldg., Oakland. Owners, Albers Bros. Milling Co., 352 Pine street, S. F. Location, Key Route Fill. The engineer has just been selected and other than the fact that the construction will be of reinforced concrete and that a wharf and four-story milling plant are to be erected no details can be given. Further mention will be made of the work.

SACRAMENTO, CAL.—Box factory, 2 story, frame, $35,000. Architect, C. S. McNally, Mechanics' Institute Bldg., S. F. Owner's name not given. Location, near Brighton. Will cover an area of 70 by 215½ feet. A large amount of special machinery will be required. Automatic sprinklers. All machines driven by independent motors. Exterior covered with rustic. Plans com-

Contracts Awarded.

RICHMOND, CONTRA COSTA CO., CAL.—Manufacturing plant, 1 and 2 plete and figures to be called for later. story, brick and reinforced concrete, $750,000. Architects, Klipstein & Rathmann, St. Louis, Mo. Owners, General Roofing Co., Insurance Exchange Bldg., S. F. Contractors, Wimmer Contracting Co., at the site. Foundation work started.

SEATTLE, WASH.—Lofts and warehouse, 5 story and base, reinforced concrete, $500,000. Architect's name not given. Owners, Union Terminals, Ltd., Henry Bldg., Seattle. Contractors, Pearson Construction Co., New York Bldg., Seattle. Contract price, $500,000.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Jail fence, $3,628. Engineer, City Department of Engineering, City Hall. Owners, City and County of San Francisco. J. McSheehy presented the lowest bid at $3,628 for fencing at the county jail and will probably be awarded the contract. A complete list of the bids received will be found under the heading of San Francisco in this issue.

Contracts Awarded

SACRAMENTO, CAL. — Detention home, 1 story, concrete, $10,210. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Contractor, William Murcell, Sacramento. Contract price, $10,210.

FLATS

SAN FRANCISCO—Flats, 3, 2 story and base, frame, $6,500 each. Architect, none. Owner, Leo J. Ruegg, Pacific Bldg., S. F. Location, west 25th avenue south of Lake and west 2nd avenue south of Geary. Each building will contain four flats with bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $9,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner D. Vatuone. Location, north Washington east of Mason. Will contain six flats of four, five and six rooms. Interior finish pine and elm panels with some hardwood enear. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Wall beds. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,500. Architect, none. Owner, Joseph Cuneo, 152 Tiffany avenue, S. F. Location, south 19th east of Lexington, covering an area of 22 by 57 feet. Will contain two flats of four and five rooms. Interior finish pine. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Flats and store, 2 story and base, frame, $9,000. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Versailles near Encinal avenue. contain several stores on the ground floor and modern flats above. Interior finish pine and white enamel. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, E. Coleman, 5516 Geary street, S. F. Location, south Geary east of 19th avenue. Will contain one store on the first floor and two modern flats on the upper floor. Patent store fronts. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster, and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $10,000. Architect, Arthur J. Laib, Russ Bldg., S. F. Owner's name withheld. Location, corner of Jackson and Baker streets. Will contain six residential flats. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Basement garage. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $10,000 each. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, east Palm avenue north of Geary, covering areas of 25 by 50 feet. Each will contain two flats of five and six rooms. Basement garages. Interiors will be finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Tile bath rooms. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $8,000 each. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, east Palm avenue north of Euclid. Each will contain two flats of five and six rooms with bath and sleeping porches. Basement garage. Interior finish pine and elm panels with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Flats, 2 story and base, frame, $4,200. Architects, Schirmer, Bugbee & Co., Dalziel Bldg., Oakland. Owner, H. Suermondt. Location, Spruce street. Will contain two flats of five and six

ooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile r brick mantels. Bath rooms tile. Automatic water heaters. Exterior covred with rustic and cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Flat alteration, 2 story, frame, $2,000. Architect, James W. Plachek, Achcson Bldg., Berkeley. Owner, G. Dygert. Location, Ashby avenue. Work will onsist of altering the present twotory frame dwelling into two modern lats. Included in the work will be ew interior trim, carpentry work, nill work, plastering, plumbing and lectric work and painting. Exterior vill be covered with cement plaster. Plans are complete and figures are being taken.

GARAGES.

SAN FRANCISCO—Garage, 1 story nd base, reinforced concrete, $16,000. Architect, P. Righetti, Phelan Bldg., S. F. Owners, California Baking Co. Location, Ellis and Pierce streets. Designed to furnish accommodations for ll of the company's automobiles. Concrete floor. Fireproof construction. Special gasoline storage tanks. Wash oom and machine shop. Metal window sash and frames. Exterior faced with cement plaster. Plans complete nd figures being taken.

SAN FRANCISCO—Garage and sales ooms, 5 story and base, reinforced oncrete. Cost not stated. Engineer, C. F. Wieland, Claus Spreckels Bldg., S. F. Owners, Wyllis-Overland Co. An application for a permit for the concrete foundation work for the new Wyllis-Overland building, a five-story reinforced concrete structure to be erected on Van Ness avenue between Bush and Fern, has been applied for by the contractors, the Leonard Construction Co.

GOVERNMENT WORK & SUPPLIES

St. Ignatius, Mont., Reclamation Work.

The following bids were received at the office of the U. S. Reclamation Service, St. Ignatius, Mont., under specification 324, for the construction of canals and structures, Flat Head project, Mont.:

Bid 1. Long & Olson, Polson, Mont.
2. Earl D. Covell, Ronan, Mont.

Schedule No. 1.

Item 1. Excavation, class 1—Bid 1, 30c; 2, 25c.

Item 2. Excavation, class 2—Bid 1, 50c; 2, $1.

Item 3. Excavation, class 3—Bid 1, $1.25; 2, $1.50.

Item 4. Overhaul—Bids 1 and 2, 2c.

Total schedule No. 1—Bid 1, $730.75; 2, $664.50.

Schedule 2.

Item 5. Excavation, class 1—Bid 1, 50c; 2, $1.

Item 6. Excavation, class 2—Bid 1, $1; 2, $1.50.

Item 7. Excavation, class 3—Bid 1, $1.50; 2, $2.

Item 8. Puddled back fill—Bid 1, 30c; 2, 50c.

Item 9. Backfill—Bid 1, 25c; 2, 40c.

Item 10. Concrete—Bid 1, $18; 2, $24.-90.

Item 11. Placing reinforced steel — Bid 1, 2.5c; 2, 3c.

Item 12. Dry paving—Bid 1, $1.25; 2, $1.

Item 13. Grouted paving—Bid 1, $2; 2, $2.

Item 14. Laying 12-in vitrified pipe—Bids 1 and 2, 30c.

Item 15. Do, 18-in—Bid 1, 50c; 2, 38c.

Item 16. Do, 24-in—Bid 1, 75c; 2, 50c.

Item 17. Do, 30-in—Bid 1, $1; 2, 95c.

Item 18, Erecting lumber in structure—Bid 1, $24; 2, $20.

Item 19. Placing metal work—Bid 1, 6c; 2, 5c.

Total schedule 2—Bid 1, $8,946.50; 2, $10,770.40.

Schedule 3.

Item 20. Excavation, class 1—Bid 1, 50c; 2, $1.

Item 21. Excavation, class 2—Bid 1, $1; 2, $2.

Item 22. Excavation, class 3—Bid 1, $1.50; 2, $3.

Item 23. Puddle backfill—Bid 1, 40c; 2, $1.

Item 24. Backfill—Bid 1, 30c; 2, 50c.

Item 25. Concrete — Bid 1, $19; 2, $35.85.

Item 26. Rubble concrete—Bid 1, $14; 2, $26.10.

Item 27. Placing reinforcing steel—Bid 1, 2.5c; 2, 4c.

Item 28. Grouted paving—Bid 1, $1.-75; 2, $2.

Total schedule 3—Bid 1, $1,183.75; 2, $2,202.10.

Grand total—Bid 1, $10,861; 2, $13,-637.

Medford, Ore., Wall Covering.

The contract for furnishing woll covering for court room in the U. S. post office and court house at Medford, Ore., has been awarded to W. B. Moses & Sons, Washington, D. C., at $247.30; time, 45 days.

Additional Naval Bids.

The following additional bid was received at the bureau of supplies and accounts, Navy Department, Washington, D. C., to late to be included in the regular abstract appearing elsewhere in this issue. The postmark indicated, however, that the bid was mailed in time to reach Washington prior to the hour of opening and will, therefore, be considered:

Bid 248. Kilbourne & Clark Mfg. Co., 71 Columbia street, eattle, Wash., class 21, $18,099.

Earthwork and Structures.

The eclamation Service is asking for proposals for earthwork and structures, Bowdoin Canal, Milk River irrigation project, Mont. The work involves about 68,000 cubic yards of excavation, 390 cubic yards of reinforced concrete, 720 square yards of paving, the placing of 17,000 pounds of reinforcing steel, and the placing in wooden structures of about 50,000 feet, B. M., of lumber. The work is located about 7 miles east of Malta, Mont., near the Strater and Bowdoin stations on the Great Northern Railway. The bids will be opened at the office of the U. S. Reclamation Service at Malta on March 15.

Brown's Point Light Station, Stone.

The following bid was received by the lighthouse inspector, 17th district, Portland, Ore., for furnishing 390 tons stone for riprap for Brown's Point light station, Wash.:

J. M. Clapp, Seattle, Wash., $700.

The Laramie Project.

The Reclamation Service is asking for proposals for the construction of various structures on about ten miles of the Fort Laramie Canal, North Platte irrigation project, Nebraska-Wyoming, and also for earthwork on about 5½ miles of the main canal, Fort Laramie unit. The structures will involve approximately 15,000 cubic yards of excavation and 3,350 cubic yards of concrete in place. The canal earthwork involves the excavation of approximately 811,000 cubic yards of material. The bids will be opened at the office of the United States Reclamation Service at Fort Laramie, Wyo., on March 10. The work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington & Quincy Railway in the vicinity of Fort Laramie.

San Francisco, Cal., Models.

The contract for furnishing plaster models for the U. S. custom house at San Francisco, Cal., has been awarded to E. C. Bairstow, Washington, D. C., at $550.

HALLS AND SOCIETY BUILDINGS.

SACRAMENTO, CAL.—Lodge hall, 3 story and base. Class A construction, $80,000. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Sacramento Scottish Rite Hall Association. Location, corner of 28th and L streets, covering an area of 142 by 80 feet. Will contain several handsomely finished lodge rooms, main auditorium, banquet rooms, offices, smoking rooms and ladies' parlors. Interior finish pine, hardwood and ornamental plaster. Steam heat, oil burning system, vacuum cleaning and hot water supply. Metal window sash and frames. Hollow tile interior partitions. Exterior faced with white sandstone. Plans complete and contract for excavation awarded. General figures to be taken in thirty days.

PORTLAND, ORE.—Municipal auditorium, 3 story and base, $317,400. Architect's name not given. Owners, City of Portland. Bids opened for the construction of the proposed Class A Municipal Auditorium in Portland show Hans Pederson of Seattle low at $317,-400. The contract will probobly be awarded in a few days.

HOSPITALS

SAN FRANCISCO—Hospital addition, 4 story and base. Class A construction, $350,000. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Mr. Bakewell states that the Trustees of Leland Stanford, Jr., University have set March 10th for receiving bids for the construction work at the Lane Hospital. Bids will be received in the offices of the Trustees in the Insurance Exchange Bldg., but may not be opened until the following Monday. Thirty-two contractors are figuring the general construction.

SAN FRANCISCO — Hospital wing construction, 3 story and base. Class A construction, $280,000. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. A complete list of the bids opened for the general construction, etc., of the southeast wing will be found under the heading of San Francisco in this issue. J. S. Hannah, low on general construction at $213,773. Hogberg & Ludwig low on brick and terra cotta, Scott Co. on the plumbing,

Otis Elevator Co. on the elevator work and Wittman-Lyman Co. on the heating and ventilating.

STOCKTON, SAN JOAQUIN CO., CAL.—Hospital cottages, 2, 1 story and base, concrete and frame, $30,000 each. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Two new cottages are to be erected at once at the Stockton State Hospital. One will be used for a female cottage and the other for a male ward. Interior will be finished in pine. There will be central heating systems and modern plumbing. Exteriors will be covered with cement plaster. Bids will be called for shortly.

SACRAMENTO, CAL.—Hospital ward, 2 story and base, reinforced concrete and hollow tile. Cost not stated. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Plans have been completed for the main ward building of the infirmary group and figures are now being taken. The building will cover an area of 50 by 150 feet. Interior will be finished in pine, white enamel and hardwood. Maple and tile floors. Steam heat, oil burning system. Modern hospital plumbing and electric work. Vacuum cleaning. Exterior faced with cement plaster. Bids will be opened on March 24th at 2 p. m.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital group, steel and brick, $100,000. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. It is the intention of the Supervisors to receive estimates for the rough construction work only of the administration building and service building, the east wing of the former building being omitted, also. One general bid only will be taken as it is the intention of the Board to construct nothing but the exterior enclosing walls and roof, leaving the interior unfinished for the present or until an additional appropriation can be secured. The administration building will cover an area of 90 by 56 feet, be four stories high; there will be a two-story wing, 90 by 46 feet, with an L 27 by 56 feet. The service building will be one story high, 88 by 115 feet, and 17 feet high.

Contracts Awarded.

SACRAMENTO, CAL. — Hospital nurses home, 2 story and base, reinforced concrete and hollow tile, $35,970. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Contractor, William Keating, Sacramento. Contract price, $35,970.

HOTELS

SAN FRANCISCO—Hotel and stores, 3 story and base. Class C construction, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not given. Location, northeast corner of Seventh and Howard streets. Will contain three stores besides the hotel lobby on the first floor. Upper floors arranged for single rooms and baths. Interior finish pine and redwood. Steam heat, oil burning system and hot water supply. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and revised figures being taken.

SAN FRANCISCO—Hotel alteration, 3 story, frame, $4,000. Architect, Paul F De Martini, 2123 Powell street, S. F. Owners, New California Hotel. Location, west Mason between Chestnut and Francisco. Work will consist of new interior trim, plumbing, plastering, painting and electric work. Some exterior plaster will also be required. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Hotel, 4 story and base, brick, $25,000. Architects, Peter L. Sala and Frank V. Mayo, Commercial and Savings Bank Bldg., Stockton. Owners, Fontana & Delucchi. Location, Market between Sutter and San Joaquin. Arranged for a restaurant on the first floor and a number of hotel rooms and baths on the upper floors. Interior finish pine and hardwood. Steam heat, oil burning plant and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

IRRIGATION PROJECTS

HOLTVILLE, IMPERIAL CO., CAL.—Waste canal. Cost not stated. Engineer, Rockwood, Holtville. Owners, Imperial Irrigation District. At a recent meeting, directors of the Imperial Irrigation District instructed Engineer Rockwood to report to the Board on the advisability of constructing a waste canal connecting No. 2 main with the Alamo. It is proposed to make the outlet in No. 2 main about a mile north of Allison's heading, and would be for the relief of water companies 5, 7 and 2. Further mention will be made of this when a report is given.

DOYLE, LASSEN CO., CAL.—Irrigation work. Cost not stated. Engineer, W. W. Wales, Woodland. Owners, Southern Lassen Irrigation District. Civil Engineer W. W. Wales is in conference with directors of the Southern Lassen Irrigation District relative to improvements to be started in the district in the next few weeks. Wales and Attorney L. L. Dennett of Modesto have prepared statistics and will present plans to the officers of the new association for development work. The district includes 22,500 acres, and the cost of bringing water to the land is estimated by Wales at $33 to $35 per acre. Further mention will be given on this work when bids are called.

Contracts Awarded.

BUTTE CITY, BUTTE CO., CAL.—Irrigation ditches, etc. Cost not stated. Engineer's name not given. Owners, East Washington Dodge Rice Project. Contractor, Peter Hoar, Chico. Contract price not stated.

POWER IMPROVEMENTS

MARTINEZ, CONTRA COSTA CO., CAL.—Fire protection system, $51,328. Engineer, City Engineer E. C. Brown, Martinez. Owners, City of Martinez. City Engineer E. C. Brown has submitted to the City Trustees his report on the proposed new salt water system for fire protection, which can be installed, according to the report, at a cost of $51,328.86, inclusive of pipes, pumping apparatus and hydrants.

VREKA, SISKIYOU CO., CAL. — Water works, boilers, etc. Cost as follows. Engineer's name not given. Owners, Town of Vreka. Bids were opened by the City Trustees at their last meeting for furnishing boilers and engine for the water works as follows: Harron, Ricard & McCone, 13 Townsend street, S. F., two 50-horsepower boilers, $1,624, or one 100-horsepower boiler, $1,284; engine, $641. J. D. Fairchild, two second-hand 50-horsepower boilers, $500. The bids were laid over for further consideration.

FRESNO, FRESNO CO., CAL. — Pumping station, 1 story, brick, $2,500. Architects, Coates & Travor, Rowell Bldg., Fresno. Owners, Fresno City Water Co. Location, Glen and Nielson streets. Will cover an area of 60 by 60 feet. Concrete floor tile and terra cotta wainscot. Exterior faced with cement plaster. Red tile roof. Plans being prepared.

BAKERSFIELD, KERN CO., CAL.—Pumping stations, 6, 1 story, reinforced concrete. Cost as follows. Engineer's name not given. Owners, Associated Pipe Line Co., S. F. The expenditure of $1,500,000 in the construction of six additional oil pumping stations between Bakersfield and Mendota is planned by the Associated Pipe Line Company. Stations will be erected at Lerdo, Earlimart, Tulare, Kingsburg, Fresno and west of Kerman. The plans will be 60 by 60 feet and will cost about $200,000 each.

LOS ANGELES, CAL.—Water pipe, cast iron. Cost not stated. Engineer, City Engineer Mulholland, L. A. Owners, City of Los Angeles. At the last meeting of the Board of Public Service Commissioners specifications for 1600 tons of cast iron pipe were presented by Aqueduct Engineer Mulholland. The Board ordered bids advertised for. The pipe will be needed in providing for improvement of the service recently operated by the Glendale Consolidated Water Co., but taken over by the department. Further information may be had from the Clerk of the Board at Los Angeles.

LOS ANGELES, CAL.—Water pipe, $650,000. Engineer, Chief Engineer Mulholland, L. A. Owners, Los Angeles County. Bids for furnishing approximately 6,000 tons of water pipe for the San Fernando Valley distributing system, and involving a contract amounting to more than $650,000, were opened by the Board of Supervisors a few days ago and referred to Chief Engineer Mulholland of the district and the county counsel for a recommendation. The bids follow:

Baker Iron Works, 912 Broadway, L. A.—1328 tons, $146,728; item No. 2, 899 tons, $103,265; item No. 3, 791 tons, $90,489; item No. 4, 2,900 tons, $319,865. Total bid, 5,918 tons, $660,347.

Lacey Manufacturing Co., Flood Bldg., S. F. and L. A.—Item No. 1, 1,324 tons, $142,687, item No. 2, 891 tons, $97,119; item No. 3, 773 tons, $84,257; item No. 4, 2,910 tons, $522,734. Total bid, 5,898 tons, $646,798.

Western Pipe and Steel Co., 444 Market street, S. F.—Item No. 3, 784 tons, $89,925; item No. 4, 2,898 tons, $319,198. Total bid, 3,682 tons, $409,123.

Llewellyn Iron Works, Main and Redondo streets, L. A.—Item No. 1, 1,335 tons, $140,175; item No. 2, 886 tons, $100,000. Total bid, 2,221 tons, $240,295.

Los Angeles Manufacturing Co—Item No. 4, 2,725 tons, $251,375.

A summary of these bids shows the following to be the lowest on each of the four items: Llewellyn Iron Works, item No. 1; Lacy Manufacturing Co., items No. 2 and 3; Los Angeles Manufacturing Co., item No. 4. An award will be made shortly.

GLENDALE, LOS ANGELES CO., CAL.—Water pipe. Cost not stated. Engineer, Public Service Dept., Glen-

dale. Owners, Town of Glendale. The City Clerk has been instructed to advertise for bids for 6,000 feet of 20-inch cast iron water pipe. The specifications for same were adopted as framed by the Public Service Department

Contracts Awarded.

SAN DIEGO, SAN DIEGO CO., CAL.—Wood stave pipe, $30,373. Engineer, City Engineer, San Diego. Owners, City of San Diego. Contractors, Pacific Tank and Pipe Co., 5th and Bryant streets, S. F. Contract for 10,000 feet of 36-inch pipe and 6,000 feet of 24-inch pipe, $30,373.

EUREKA, HUMBOLDT CO., CAL.—Water station, 1 story, reinforced concrete, $11,629. Architect, Burke, Eureka. Owners, City of Eureka. Contractors, Elsemore & Jacobs, 422 H street, Eureka. Contract price, $11,629.

GARAGE H

RESIDENCES.

SAN FRANCISCO—Residences, 6, 1 and 2 story and base, frame, $2,500 each. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, Sunset District. Each house will contain five rooms and bath. Interiors finished in pine, redwood and white enamel. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 1½ story and base, frame, $3,000. Architect, none. Owner, Henry Kneif, 812A Hampshire street, S. F. Location, east Cumberland south of Dolores. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood eneer and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Justus Norris, 2828 Richmond, Oakland. Location, east College south of Bryant. Will contain six rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, F. N. Fabing, 3515 13th avenue, Oakland. Location, south East 34th street east of Park Boulevard. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $2,600 each. Architects, Banning & Stewart, 521 Broadway, Oakland. Owners, Banning & Stewart, 521 Broadway. Location, north Prospect Drive east of Broadway. Each dwelling will contain six rooms and bath. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, log, $8,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, W. Hawley. Location, Thousand Oaks Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels stone and brick. Bath rooms tile. Automatic water heater. Exterior logs from the Exposition. Plans being prepared.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 1 story and base, frame, $2,000 to $2,500 each. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Willow street. Each dwelling will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,250. Architect, none. Owner, C. M. MacGregor, 470 13th St., Oakland. Location, northwest corner of East 38th street and Woodruff. Will contain five rooms, bath and sleeping porch. Interior finish pine throughout. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, Paul E. Woodburn, 3365 Greenwood avenue, Oakland. Location east Everett south of Vista street. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,500. Architect, none. Owner, M. P. Brasch, 5836 Ocean View Drive, Berkeley. Location, east San Mateo north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $10,000. Architect, Willis Polk, Hobart Bldg., S. F. Owner, Dr. William Boericke, 391 Sutter street, S. F. Location, St. Francis Wood. Will contain eight room, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Hot water circulating system. Mantels tile or brick. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, east 43rd avenue north of Fulton. Each house will contain seven rooms, bath and basement garage. Interior finish pine and redwood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 2 story and base frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, I. P. Diggs. Location, Country Club Heights. Each house will contain eight rooms, two baths and sleeping porch. Separate garages will be erected. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences 2, 1 story and base, frame, $1,500 each. Architect none. Owner, C. S. Nichols 1719 Castro street, Oakland. Location, north Ward east Mable. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, M. I. Diggs, Syndicate Bldg., S. F. Owner, G. Siegrest, 605 Market street, Oakland. Location south Hopkins east of Laguna. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with shingles. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $15,000 Architect, Louis M. Upton, 111 Ellis street, S. F. Owner, George Hammer. Location, ing avenue. Will contain fourteen rooms, three baths and sleeping porch. Separate garage and formal landscape gardening. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with shingles. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 1 story and base, frame, $2000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Mr. Tarpy. Location, 7th street and Santa Clara avenue. Each will contain five rooms and bath. Interiors finished in pine, redwood and white enamel. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO. CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, C. E. Wheeland, 1037 Fillmore street, S. F. Location, Jerome avenue. Will contain seven rooms, bath and sleeping porch. Interior finished in pine hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2 1 story and base, frame, $2,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Waterside Terrace. Each house will contain five rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, G. R. Williams. Location, Highland Terrace. Each will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,500. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Rockridge Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George A. Kernick. Location, St. Charles St. Will contain ten rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, I. W. Button, 347 63rd street, Oakland. Location, west Arbor north of Hudson. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 1 story and base, frame, $2,500 each. Architect, none. Owner, G. Taylor, 96 Pearl street, Oakland. Location, southwest 38th and Manila avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, A. Hammarberg, 2758 Piedmont avenue, Oakland. Location, west Santa Clara south of Chetwood. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,700. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, 3226 Bayo Vista. Will contain six rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

MT. DIABLO, CONTRA COSTA CO., CAL.—Residence, 2 story and base, frame, $17,500. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. N. Burgess. Will contain twelve rooms, three baths and sleeping porch. A separte garage will be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood floors throughout except in the baths which will be finished in tile. Furnace heat, hot water circulating system and open fire places. Mantels tile and brick. Exterior covered with shingles. Plans complete and figures being taken.

FRESNO, FRESNO CO., CAL.—Residence, 1 story, frame, $1,800. Architect, none. Owner, O. D. Atkins, 3219 Kerckhoff street, Fresno. Location, Orchard Hill Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 2 story and base, frame, $4,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, C. C. Adams. Location, Waterside Terrace. Each house will contain seven rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. A. Anderson. Location, Peralta Terrace. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 2 story and base, frame. Cost not stated. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, D. M. McLaughlin. Location, Waterside Terrace. Each will contain seven rooms, baths, sleeping porch and a garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Tile bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residences, 20, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, Rockridge Park. Each house will contain seven and eight rooms, two baths and sleeping porches. Separate garages will be erected. Interior finish pine and redwood with some hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 6, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Bay View and 28th street. Will contain from seven to eight rooms, baths and sleeping porches. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

KENTFIELD, MARIN CO., CAL.—Residence alterations, frame. Cost not stated. Architects, Bliss & Faville, Balboa Bldg., S. F. Owner, William Kent. Work will consist of interior and exterior alterations and will include carpentry, brick work, mill work, plastering, painting, plumbing and electric work. Plans are complete and figures are being taken.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, W. B. Phillip, 4011 Cypress avenue, Sacramento. Location, 3214 Allen avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior rustic and cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame, $16,495.75. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, William A. Magie. Contractors, Billings & Whelstine, 514 Howard St., Pasadena. Contract price, $16,495.75.

SCHOOLS

SAN BRUNO, SAN MATEO CO., CAL.—School, 1 story, frame. Cost not stated. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. The official date for opening bids for this building has been set for March 16th at 8 p. m. Plans can be secured from the architects.

LODI, SAN JOAQUIN CO., CAL.—School, 1 story and base, brick, $35,000. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Lodi School District. Will contain six class rooms and an auditorium. Interior finish pine with some maple floors. Steam heat, oil burning furnace and vacuum cleaning. Slate blackboards. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on March 13th. Plans can be secured from the architects.

LATHROP, SAN JOAQUIN CO., CAL.—School, 1 story and base, frame and plaster, $10,000. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Tulare School District. Will contain four class rooms. Interior finish pine with some maple

floors. Steam heat, oil burning furnace. Modern school plumbing. Exterior covered with cement plaster. Plans complete and figures being taken. Bids close on March 16th. Plans can be secured from the architects.

MODESTO, STANISLAUS CO., CAL.—School, 1 story and base, brick and concrete, $125,000. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Modesto. Only preliminary sketches have been prepared and details cannot be given. The building will be designed for a high school. Further mention will be made of the work.

WOLTERS SCHOOL DISTRICT, FRESNO CO., CAL.—School, 1 story and base, concrete, brick and frame. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wolters School District. Will contain four class rooms. Interior finish pine. Hot water heating system. Modern school plumbing. Exterior faced with cement plaster. Plans complete and figures being taken. Bids close on March 9th. Plans can be had from the architect.

LOS ANGELES, CAL.—School, 4 story and base. Class A construction, $434,-934. Architect, J. C. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. The following firms submitted the low figures for the various parts of the work mentioned below. General construction, Los Angeles Planing Mill Co., 1812 Industrial street, L. A. Plumbing, J. T. Newell, 137 West 17th street, L. A., $26,148. Heating, Hoagland-Larkin Electric and Engineering Co., $29,240. Program clock, Standard Electric Time Co., $2,000. Electric work, California Electric Co., $15,110. The bids were referred to the architect, business supervisor and auditor for a report.

SEWERS, STREET WORK & WATER SYSTEMS

MARTINEZ, CONTRA COSTA CO., CAL.—Sewers, storm water and sanitary, $26,600 and $14,000. Engineer, City Engineer E. C. Brown, Martinez. Owners, City of Martinez. Preliminary plans and an estimate of cost have been prepared for constructing both sanitary and storm water sewers throughout the city. The report and estimate will be acted upon at the next meeting of the Council.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Upon the recommendation of Commissioner William J. Baccus, the following street resolutions were passed by the City Council: Directing the City Engineer to prepare plans and specifications for paving with asphalt and otherwise improving College avenue from Broadway to the northern line of the city of Oakland. Directing the City Engineer to prepare plans and specifications and resolution of intention for the improvement of 39th avenue between East 14th street and Foothill Boulevard. Adopting plans and specifications for the improvement of Scenic avenue between Lincoln avenue and Laguna avenue, and recommending the passage of resolution of intention for same. Recommending passage of resolution of intention for sidewalking portions of Stow avenue, East 26th street, East 14th street and East 37th street. Bids on these improvements will be taken shortly.

KINGSBURG, FRESNO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. Bids will be opened on March 6th at 8 p. m. for the improvement of Simpson street as follows: A strip 21 feet in width through the central portion of said street shall be graded and paved with a cement concrete base, 4 inches thick with an asphaltic oil wearing surface 3-8 inch thick; the balance of the roadway of said street to the curb lines of each side thereof shall be graded, all of said grading and paving to be to the official grade.

SALINAS, MONTEREY CO., CAL.—Drainage sewers. Cost not stated. Engineer, City Engineer D. F. Davies, Salinas. Owners, City of Salinas. The matter of constructing a storm drainage system in this city was taken up at the last meeting of the City Council when City Engineer D. F. Davies presented two maps, one of Salinas city and the other of the region from Salinas to the Salinas River and vicinity. Davies submitted three propositions for the consideration of the Council: One to pump the water into the Rincon Del San Jon slough and clear that slough out for several miles; one to send all the water through the Carr ditch, which would have to be cleared out tree, and one to use the 16½ feet sanitary sewer right of way from the corner of Alisal street and Homestead avenue to the Salinas River for a storm sewer. Further consideration of the proposed work will be taken up at the next meeting.

REDWOOD CITY, SAN MATEO CO., CAL.—Sewer construction and street paving. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. The Town Trustees at their last meeting passed resolutions of intention providing for the construction of a 12-inch sewer, manholes, etc., in certain streets throughout the town. A resolution was also passed providing for the following work: That East Brewster avenue in the Town of Redwood City be improved by grading, macadamizing and oiling for its full width from north El Camino Real, also known as the County Road, to the south line of Arguello street. All macadamizing and oiling to be done to the official grades. Bids will be called for shortly on this work.

BERKELEY, ALAMEDA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. The City Council has passed a resolution of intention providing for the following improvement: That a 6-inch vitrified, ironstone pipe sewer be constructed in High Court Tract from the bottom of the manhole in front of lot 20 of said tract, westerly along the path on the southern and western sides of lot 3 of said tract, to the bottom of the manhole in front of lots 5 to 8 of said tract; that a concrete catch basin with curb inlet and east iron grating cover be constructed in the gutter of High Court in front of lot 6 of said High Court Tract and that an 8-inch corrugated iron pipe be laid from said catch basin easterly to the above mentioned path and along said path to the western gutter of said High Court, where said gutter is intersected by the eastern extension of the northern line of lot 4 of said High Court Tract. Bids on this work will be called for shortly.

MODESTO, STANISLAUS CO., CAL.—Road construction. Cost not stated. Engineer, County Engineer, Modesto. Owners, Stanislaus County. Bids will be opened on March 14th for the construction of approximately one mile of concrete road with a 1½-inch wearing surface near the city of Newman, and the scarifying of approximately two miles of road leading to the road to be paved; also for the construction of approximately four miles of paved road running north from the city of Modesto (Mellenry Road) in the County of Stanislaus.

FRESNO, FRESNO CO., CAL.—Sewers, storm water and sanitary. Cost as follows. Engineer, City Engineer Cronkite, Fresno. Owners, City of Fresno. City Engineer Cronkite will be ready to submit plans and specifications at the next meeting of the City Council for a $350,000 sanitary sewer system and a storm water drainage system to cost $150,000. Plans for the sewer work provide for 10½ miles of pipe and 7½ miles of pipe for the drainage system. The present sewer system will be entirely utilized in the new one. The line of the additional sewer pipe will be: 18-inch pipe from Hamilton to Sarah street, along Sarah street to Florence, 20-inch pipe along Florence to Elm, 24-inch pipe along Elm to Church, 30-inch pipe along Church to Fruit avenue and 60-inch pipe along Church avenue to Jefferson avenue, then to a point near Braly and then along Jensen avenue to the sewer farm. Laterals will also be constructed to care for other sections of the city. Further mention will be made of this work when action is taken.

RICHMOND, CONTRA COSTA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. Plans are being prepared by City Engineer Chapman for the improvement of 23rd street north from Macdonald to Esmond avenue. Proposals offered as to the improvement of the street were that it should have a 5-inch concrete base and a 2-inch bitulithic surfacing. Bids will be called for shortly.

MARTINEZ, CONTRA COSTA CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor Arnold, Martinez. Owners, Contra Costa County. The Supervisors at their last meeting directed County Engineer R. R. Arnold to prepare plans and specifications for the building of the concrete road from Bryant station to Walnut Creek. Plans must be completed by March 6th so as to call for bids. Further mention will be made of this work.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway repairs. Cost not stated. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Bids will be opened on March 13th for the reconstruction of a portion of the Colma to Half Moon Bay road near Farallone, recently destroyed by floods, located in the Fourth Road District.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council an order was made for the paving and sewering of Soquel, Pacheco and Melrose avenues and Frederick and Windsor streets. The specifications do not include a drain, which will be included in a larger district later. Bids will be

called on the completion of plans.

REDWOOD CITY, San MATEO CO., CAL.—Street work. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were adopted ordering work and calling for bids for the street work on Broadway from the railroad track to the county road. Plans may be had from the office of the City Clerk at Redwood City.

FRESNO, FRESNO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. Bids will be received up to March 6th for paving Ventura avenue from the west line of Angus street to the east city limits, be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 2-inch bitulithic wearing surface laid upon 5-inch cement concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. That Santa Fe avenue from the east line of Kern street to the Friant branch of the Southern Pacific Railroad, be graded, curbed and guttered with cement concrete curb and gutter, and paved with a pavement consisting of a cement concrete base 5 inches thick and a bitulithic wearing surface 2 inches thick; also that there be constructed two corrugated iron culverts and 4 cast iron return culverts. That 1st street from the north line of Ventura avenue to the north line of Tulare avenue, and that Kerckhoff avenue from the east line of 1st street to the west line of 8th street, be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 1½ inch Warrenite wearing surface laid upon 2½ inches asphalt concrete base, also that corrugated iron culverts and cast iron return culverts be constructed.

FRESNO, FRESNO CO., CAL.—Electrolier system. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. Bids will be received until March 6th for construction of an electrolier street lighting system upon the following described streets in Fresno: Upon each side of J street from the northwest line of Merced street to the southeast line of Tuolumne street, and upon the southeast side of Tuolumne street from the southwest line of J street to the northeast line of I street.

MODESTO, STANISLAUS CO., CAL.—Street paving, $10,000. Engineer, City Engineer, Modesto. Owners, City of Modesto. The paving of three blocks of McHenry avenue was provided for by the City Council at its last meeting when plans and specifications were adopted and a resolution of intention passed. The plans provide for the paving of the avenue from Needham and Annie streets to Stoddard avenue. The specifications provide for a standard concrete and asphalt road with the exception of the wearing surface. This will be what is known as the "Topeka Top."

SACRAMENTO, CAL. — Sewer construction. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be received until March 9th for excavating a trench and constructing therein an 8-inch vitrified, ironstone sewer pipe in Hollyhock avenue from the east boundary of the Alta Vista Addition to the east line of Wabash avenue.

VISALIA, TULARE CO., CAL.—Street paving, $200,000. Engineer, City Engineer, Visalia. Owners, City of Visalia. New paving, together with what has already been ordered at a cost of over $200,000 was arranged for by the City Trustees at their last meeting and bids will be called for shortly. The new paving includes all of south Garden street to Tulare avenue, this having been petitioned for by a delegation of property owners on the street, who asked for the order with the understanding that the paving should be the full 40-foot width. The plans and specifications were adopted and resolution of intention to pave East street (the Santa Fe Railroad) from School to Mineral King avenue, Oak street from Court to Garden, Acequia from Court to Floral, and north Church to northeast 1st avenue, were passed and the City Engineer was instructed to prepare plans and specifications for south Garden to Tulare avenue. Further mention will be made of this work.

HANFORD, KINGS CO., CAL.—Street paving, $400,000. Engineer, City Engineer, Hanford. Owners, City of Hanford. The Board of Trustees has decided upon a paving project which will mean the expenditure of close to $400,000 before it is completed. The four main north and south streets, Irwin, Douty, Redington and Harris, will be paved from 6th street to the north city limits, and either Ivy, Myrtle or Elm will be paved to link these main thoroughfares together. The Board has decided that all the paving shall be done under the district plan, the property owners along the paved streets paying 75 per cent of the cost and those in the district paying on a graduated scale, according to the distance their property is located from the improved roadways. Further mention will be made of this work.

SAN FRANCISCO — Street improvements. Cost not stated. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The Board of Public Works has passed the following resolutions of intention: Grade and sewer 23rd street from Hoffman to Grand View; improve crossing at 3th avenue and Geary; curb and pave 27th avenue from Geary northerly; curb and pave (where not already) 32nd avenue from Geary to Clement; improve crossing at 29th and Cabrillo; grade, sewer and pave Seward street from Douglas to Clover Heights Tract. At the same meeting the Board awarded the following contracts: Owen McHugh, improvement of Lee avenue between Ocean and Holloway. J. F. Dowling, improvement of Lisbon between Italy and Amazon. A. B. Read, improvement of Ashton between Ocean and Holloway. D. L. Bienfield, improvement of Bosworth between Diamond and S. P. tracks and Ocean between Mission and Cayuga. Felix McHugh, improvement of crossing at Geary and 45th avenue. D. L. Bienfield, improvement of Allison between Morse and Mission. he Board rejected bids received for the improvement of 45th avenue between Kirkham and Lawton and called for new bids to be received until March 1st. Bids were also rejected for the improvement of 22nd street between Church and Vicksburg.

Contracts Awarded.

BAKERSFIELD, KERN CO., CAL.—Highway improvement, $13,136.30. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractor, Leigh Garnsey, Central Bldg., L. A. Contract price, $13,136.30.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $9,643.47. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, F. C. McIntire, 215 East Weber street, Stockton. Contract price, $9,643.47.

RED BLUFF, TEHAMA CO., CAL.—Street lighting system, $2,850. Engineer, City Engineer, Red Bluff. Owners, City of Red Bluff. Contractors, Northern Electric Co., S. F. Contract price, $2,850.

VENTURA, VENTURA CO., CAL.—Highway construction, $10,908.32. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, E. A. Garland, Santa Barbara. Contract price, $10,908.32.

SANTA MONICA, LOS ANGELES CO., CAL.—Street improvement, $35,325. Engineer, City Engineer, Santa Monica. Owners, City of Santa Monica. Contractors, J. D. Kneen Contracting Co., Santa Monica. Contract price, $35,325.

LOS ANGELES, CAL. — Street improvement,, $140,000. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Oswald Bros., O. T. Johnson Bldg., L. A. Contract price, $140,000. Taken on an assignment made by R. H. McCray.

LOS ANGELES, CAL. — Street improvement, $12,500. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractor, Fred Hoffman, Long Beach. Contract price, $12,500.

IMPERIAL, IMPERIAL CO., CAL.—Lumber for desert road, $25,000. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, E. K. Wood, L. A. Contract for furnishing 1,250,000 feet of lumber for plank road. Contract price, $25,000, approximately.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR — 1018 Proposals for Babbitt Metal, Copper Bars, Twist Drills, Files, Missing Links, Anvils, Snatch Blocks, Agate Cups, Wagon Wheels, Plate Glass, Red Paint, Yellow Pine and White Oak Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 7, 1916**, at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1018) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR RAILROAD CARS.

RAILROAD CARS — Alaskan Engineering Commission, Office of the Purchasing Agent, Washington, D. C.—Sealed proposals will be received here until **11 a. m. March 1, 1916**, for furnishing at Seattle, Wash., or f. o. b. cars factory 10 box cars, 2 caboose cars, 4 gasoline motor section cars and 1 office car. For further information address, referring to circular 149, C. E. DOLE, purchasing agent.

PROPOSALS FOR RAILROAD SUPSUPPLIES.

RAILROAD SUPPLIES—Alaskan Engineering Commission, Office of the Purchasing Agent, Seattle, Wash.—Sealed proposals will be received here **until 11 a. m. March 6, 1916,** for furnishing 14,850 gross tons open-hearth steel rail, 50,000 pairs 24-inch angle splice bars, 1,000 kegs track bolts, 220,000 nut locks, and 7,000 kegs track spikes. For further information refer to circular 151 and address C. E. DOLE, purchasing agent.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1017 — Proposals for Pig Iron, Tire Steel, Malleable Iron Castings, Locomotive Springs, Horseshoes, Cable Clips, Screws, Brass Tubing, Chisels, Taps, Boiler Punches, Joining Shackles, Rivet Tongs, Adzes, Priming Cups, Pulleys, Varnish Brushes, Roof Brushes, Scrub Brushes, Push Carts, Window Glass, Leather Belting, Hose, Packing, Asbestos Gaskets, Rubbing Felt, Canvas, Burlap, Emery Cloth, Sandpaper, Paper Towels, Toilet Paper, Crayons, Lime, Manganese Dioxide, Carbolic Acid, Potassium Chlorate, Calcium Chloride, Sulphate of Copper and Sienna.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 8, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1017) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR VESSELS.

CHARTERING VESSELS — Sealed proposals will be opened by the inspector, Coast and Geodetic Survey, 202 Burke Building, Seattle, Wash., at **10 o'clock a. m. March 10, 1916,** for charter of two power vessels of about 100 feet in length and four launches of about 50 feet for use of wire drag parties in Southeast Alaska. Information and forms of proposal may be had by applying to above address.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Malta, Mont., until **2 o'clock p. m. March 15, 1916,** for earthwork and structures, Bowdoin canal, Milk River project, involving about 68,000 cubic yards of ecavation, 390 cubic yards of reinforced concrete, 720 square yards of paving, the placing of 17,000 pounds of reinforcement steel, and the placing in wooden structures of about 50,000 feet, board measure, of lumber. The work is located about seven miles east of Malta, Mont., near Strater and Bowdoin stations on the Great Northern Railway. For particulars address the U. S. Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. W. A. RYAN, acting director.

PROPOSALS FOR EARTH WORK.

EARTHWORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Fort Laramie, Wyo., until **2 o'clock p. m.** March 10, 1916, for earthwork on about 5½ miles of main canal Fort Laramie unit, North Platte project, Nebraska-Wyoming, involving the excavation of approximately 811,000 cubic yards of material. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Laramie, Wyo. W. A. RYAN, acting director.

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Phelan Bldg. San Francisco

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Supervising Architect's Office, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. March 22, 1916,** for the construction complete (including mechanical equipment and approaches), of the U. S. post office at Aberdeen, Wash. Drawings and specifications may be obtained from the custodian of site at Aberdeen, Wash., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

DEPARTMENT OF THE INTERIOR, U S, INDIAN SERVICE.

PROPOSALS FOR SCHOOL BUILDINGS ROUND VALLEY INDIAN SCHOOL.

COVELO, CAL., Feb. 5, 1916

SEALED proposals, plainly marked on the outside of the sealed envelope: "Proposals for school buildings," and addressed to the Superintendent of the Round Valley Indian School, Covelo, California will be received until **9:00 o'clock a. m., March 9, 1916,** and then opened, for furnishing all the labor and materials required in the construction and completion of one frame day school building No. 63, at Yokaia Indian Rancheria, seven miles southeast of Ukiah, California; one frame employees' quarters No. 81, one frame day school building No. 83, and three frame outhouses No. 15, for Ukiah Day School, near Ukiah, California, in strict accordance with the drawings and specifications furnished therefor by the Office of Indian Affairs, and which may be examined at the Post Office, Ukiah, California, U S. Indian Warehouse, 608 Howard street, San Francisco, and at the Round Valley Indian School.

Bids must be submitted in accordance with the form attached to the plans and specifications. The right is reserved to reject any and all bids.

E. A. HUTCHISON.
Superintendent. (*)

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg. Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

APARTMENT HOUSE—3 story and base, frame, $13,500. San Francisco. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name not given. Location, south Washington 60 west of Divisadero, covering an area of 40 by 60 feet. Will contain six apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Wall beds and private baths. Steam heat and hot water system. Bath rooms tile wainscot and composition floors. Exterior covered with rustic and cement plaster. Plans complete and contract to be awarded at once.

APARTMENT HOUSES—2, 3 story and base, brick and frame. Cost not stated. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not given. Location, northwest corner of Post and Octavia streets, covering an area of 50 by 120 feet. Each building will contain fifteen suites of two and three rooms. Interiors finished in pine and hardwood with some hardwood floors. Steam heat, oil burning equipment and hot water system. Bath rooms composition floors. Marble and tile vestibules. Exteriors covered with pressed brick veneer. Plans being prepared.

APARTMENT HOUSE—4 story and base. Class C construction, $25,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Mr. Kingston. Location, Ellis between Larkin and Polk streets. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine and elm panels with some hardwood floors. Steam heat hot water system and automatic elevator. Marble and tile wainscot. Bath rooms tile wainscot and composition floors. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame and brick. Cost not stated. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southwest corner of 20th and Dolores streets. Will contain seven apartments of three and four rooms. Interior finish pine, mahogany and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms finished in tile. Hot water system. Marble and tile wainscot in entrance. Exterior covered with pressed brick veneer. Plans complete and figures to be called for shortly.

FLATS—3, 2 story and base, frame, $6,500 each. San Francisco. Architect, none. Owner, Leo J. Ruegg, Pacific Bldg., S. F. Location, west 25th avenue south of Lake and west 2nd avenue south of Geary. Each building will contain four flats with bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $9,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, D. Vatuone. Location, north Washington east of Mason. Will contain six flats of four, five and six rooms. Interior finish pine and elm panels with some hardwood veneer. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Wall beds. Exterior covered with rustic and cement plaster. Plans being prepared.

FLATS—2 story and base frame, $4,500. San Francisco. Architect, none. Owner, Joseph Cuneo, 152 Tiffany avenue, S. F. Location, south 19th east of Lexington, covering an area of 22 by 57 feet. Will contain two flats of four and five rooms. Interior finish pine. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCES—6, 1 and 2 story and base, frame, $2,500 each. San Francisco. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, Sunset District. Each house will contain five rooms and bath. Interiors finished in pine, redwood and white enamel. Some hardwood floors. Open fire places and tile and brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,000. San Francisco. Architect, none. Owner, Henry Kneif, 812A Hampshire street, S. F. Location, east Cumberland south of Balboa. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. San Francisco. Architect, Willis Polk, Hobart Bldg., S. F. Owner, Dr. William Boericke, 391 Sutter street, S. F. Location, St. Francis Wood. Will contain eight rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Hot water circulating system. Mantels tile or brick. Exterior covered with rustic and cement plaster Plans being prepared.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, east 43rd avenue north of Fulton. Each house will contain seven rooms, bath and basement garage. Interior finish pine and redwood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic Plans complete and work to be done by Day Labor.

STREET IMPROVEMENTS — Cost not stated. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The Board of Public Works has passed the following resolutions of intention: Grade and sewer 23rd street from Hoffman to Grand View; improve crossing at 39th avenue and Geary; curb and pave 27th avenue from Geary northerly; curb and pave (where not already) 32nd avenue from Geary to Clement; improve crossing at 29th and Cabrillo; grade, sewer and pave Seward street from Douglas to Clover Heights Tract. At the same meeting the Board awarded the following contracts: Owen McHugh, improvement of Lee avenue between Ocean and Holloway. J. F. Dowling, improvement of Lisbon between Italy and Amazon. A. B. Read, improvement of Ashton between Ocean and Holloway. D. L. Bienfield, improvement of Bosworth between Diamond and S. P. tracks and Ocean between Mission and Cayuga. Felix McHugh, improvement of crossing at Geary and 45th avenue. D. L. Bienfield, improvement of Allison between Morse and Mission. The Board rejected bids received for the improvement of 45th avenue between Kirkham and Lawton and called for new bids to be received until March 1st. Bids were also rejected for the improvement of 22nd street between Church and Vicksburg.

FACTORY—2 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owners, J. Allec Cleaning and Dye Works. Location, 2164 Folsom street, covering an area of 150 by 200 feet. Construction fireproof with reinforced concrete floors and walls. Offices finished in pine and hardwood. Steam heat, oil burning equipment and special machinery. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

HOTEL AND STORES—3 story and base. Class C construction, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not given. Location, northeast corner Seventh and Howard streets. Will contain three stores besides the hotel lobby on the first floor. Upper floors arranged for single rooms and baths. Interior finish pine and redwood. Steam heat oil burning system and hot water supply. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and revised figures being taken.

HOTEL ALTERATIONS—3 story, frame, $1,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owners, New California Hotel. Location, west Mason between Chestnut and Francisco. Work will consist of new interior trim, plumbing, plastering, painting and electric work. Some exterior plaster will also be required. Plans being prepared.

HOSPITAL ADDITION—4 story and base. Class A construction, $350,000. San Francisco. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Mr. Bakewell states that the Trustees of Leland Stanford, Jr., University have set March 10th for receiving bids for the construction work at the Lane Hospital. Bids will be received in the offices of the Trustees in the Insurance Exchange Bldg, but may not be opened until the following Monday. Thirty-two contractors are figuring the general construction.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, none. Owner, Walker R. Props, 1301 Gough street, S. F. Location, southwest Jackson and Leavenworth, covering an area of 48 by 56 feet. Will contain fifteen suites of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $40,000. San Francisco. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, I. Rosenberg. Location, southeast corner Washington and Presidio avenue. Designed for large residential apartments and will contain twelve suites of five rooms and bath. All apartments will have sleeping porches. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat oil burning plant and hot water system. Bath rooms finished in tile. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

APARTMENT HOUSE—4 story and base, brick and steel. $35,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, J. G. Kincannon, 215 Montgomery street. Location, south Post west of Polk, covering an area of 30 by 112 feet. Will contain twenty suites of two and three rooms. Interior finish pine and southern gum. Some hardwood floors. Steam heat, oil burning plant and hot water system. Wall beds. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $13,500. San Francisco. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name not given. Location, south Washington west of Divisadero, covering an area of 40 by 60 feet. Will contain six suites of two and three rooms with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and hot water system. Oil burning equipment. Bath rooms tile. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and figures being taken.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, E. Coleman, 5516 Geary street, S. F. Location, south Geary east of 19th avenue. Will contain one store on the first floor and two modern flats on the upper floor. Interior finish pine and redwood with some elm panels. Hardwood floor. Patent store fronts. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $10,000. San Francisco. Architect, Arthur J. Laih, Russ Bldg., S. F. Owner's name withheld. Location, corner of Jackson and Baker streets. Will contain six residential flats. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Basement garage. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS—2, 2 story and base, frame, $10,000 each. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location east Palm avenue north of Geary, covering areas of 25 by 50 feet. Each will con- Basement garages. Interiors will be finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Tile bath rooms. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

FLATS—2, 2 story and base, frame, $8,000 each. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, east Palm avenue north of Euclid. Each will contain two flats of five and six rooms with bath and sleeping porch. Basement garage. Interior finish pine and elm panels with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—1 story and base, reinforced concrete, $16,000. San Francisco. Architect, P. Righetti, Phelan Bldg, S. F. Owners, California Baking Co. Location, Ellis and Pierce streets. Designed to furnish accommodation for all of the companys automobiles. Concrete floor. Fireproof construction. Special gasoline storage tanks. Wash room and machine shop. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

GARAGE AND SALES ROOMS — 5 story and base, reinforced concrete. Cost not stated. San Francisco. Engineer C. F. Wieland, Claus Spreckels Bldg., S. F. Owners, Wyllis-Overland Co. An application for a permit for the concrete foundation work of the new Wyllis-Overland building, a five-story reinforced concrete structure to be erected on Van Ness avenue between Bush and Fern, has been applied for by the contractors, the Leonard Construction Co.

HOSPITAL WING CONSTRUCTION—3 story and base. Class A construction $280,000. San Francisco. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. A complete list of the bids opened for the general construction, etc., of the southeast wing will be found under the heading of San Francisco in this issue. J. S. Hannah was low on the general construction at $213,773, Hogberg & Ludwig low on brick and terra cotta. Scott Co. on the plumbing. Otis Elevator Co. on the elevator work and Wittman-Lyman Co. on the heating and ventilating.

Contracts Awarded.

WHARF REPAIRS — Timber construction, $99,317. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Contractors, Healy-Tibbitts Construction Co., S. F. Contract price, $99,317. A complete list of the bids received for this work, reconstruction of Pier No. 13, will be found under the heading of San Francisco in this issue.

JAIL FENCE—$3,628. San Francisco. Engineer, City Department of Engineering, City Hall. Owners, City and County of San Francisco. J. McSheehy presented the lowest bid at $3,628 for fencing at the county jail and will probably be awarded the contract. A complete list of the bids received will be found under the heading of San Francisco in this issue.

City Bids Opened.

Board of Works Receives Many Figures For Construction of Southeast Wing of New Hospital.

Bids were opened at the regular Wednesday afternoon meeting of the San Francisco Board of Public Works for the general construction, brick and terra cotta work and plumbing for the southeast wing of the San Francisco Hospital and also for elevator work in the same building.

J. S. Hannah presented the low figure for the general construction at $213,-773; Hogberg & Ludwig, low on the brick and terra cotta work; Scott Co. low on the plumbing and the Otis Elevator Co. low on the elevator work. Following is a complete list of the bids:

General Construction.

Lindgren & Co. (1) $244,000; (2) $2,-000; (3) $5,500; (4) $2,690.

C. L. Wold (1) $244,914; (2) $7,297; (3) $5,057; (4) $2,010.

Masow & Morrison (1) $264,992; (2) $6,000; (3) $1,500; (4) $3,500. Bid void because proposal was not signed.

E. S. Mulford (1) $228,270; (2) $2,500; (3) $2,000; (4) $3,400.

J. S. Hannah 1) $213,773; (2) $3,086; (3) $5,755; (4) $3,345.60.

Sound Construction Co. (1) $248,729; (2) $4,800; (3) $2,500; (4) $3,500.

P. Reilly (1) $225,906; (2) $4,279; (3) $2,700; (4) $5,130.

W. A. Newsom (1) $231,777; (2) $2,400; (3) $4,375; (4) $3,500.

Monson Bros. (1) $269,825; (2) $3,788; (3) $6,500; (4) $1,600.

Anderson & Ringrose (1) $221,890.

Harvey A. Klyce (1) $243,000; (2) $4,380; (3) $6,410; (4) $3,700.

Elmer Carlson (1) $264,937; (2) $3,575 (3) $6,200; (4) $1,400.

Clinton Constr. & Eng. Co. (1) $231,-500; (2) $3,000; (3) $——; (4) $1,400.

Lange & Bergstrom (1) $238,957; (2) $3,282; (3) $3,822; (4) $3,255.

H. L. Peterson (1) $255,199; (2) $900; (3) $2,700; (4) $2,750.

R. Moller (1) $231,000; (2) $3,500; (3) $1,800; (4) $3,900.

Brick and Terra Cotta.

Lindgren Co. (1) $113,000; (2) $800; (3) $500.

Farrell & Reed (1) $122,927; (2) $121,980; (3) $121,976.

Charles H. Hock (1) $140,000; (2) $137,500; (3) $139,350.

Thomas J. Campbell (1) $131,977; (2) $128,846; (3) $127,449.

Hogberg & Ludwig (1) $108,000; (2) $1,650; (3) $490.

White & Gloor (1) $114,500; (2) $1,200 (3) $600.

E. S. Mulford (1) $129,872; (2) $2,200; (3) $450.

A. G. Read (1) $118,665; (2) $116,855; (3) $118,165.

Plumbing.

F. W. Snook (1) $45,694; (2) $690; (3) $1,280.

Robert Dalziel Jr. (1) $46,690; (2) $45,590; (3) $1,375.

J. E. O'Mara (1) $47,400; (2) $46,650; (3) $1,460.

Alexander Coleman (1) $46,600; (2) $45,650; (3) $1,100.

F. P. McKeon (1) $47,800; (2) $——; (3) $1,600.

J. M. Lettich (1) $49,445; (2) $48,770; (3) $1,445.

Kiernan & O'Brien (1) $47,993; (2) $46,993; (3) $1,000.

Turner Co. (1) $46,420; (2) $45,420; (3) $1,250.

J. H. Pinkerton (1) $49,000; (2) $48,-150; (3) $1,380.

A. Lettich (1) $48,765; (2) $47,715; (3) $1,175.

Herman Lawson (1) $46,345; (2) $45,-445, (3) $1,400.

Scott Co. (1) $44,570; (2) $43,745; (3) $1,300.

Wittman-Lyman Co. (1) $48,589; (2) $47,590; (3) $1,275.

W Wilson Co. (1) $46,610; (2) $45,510; (3) $1,500.

Elevators.

Spencer Elevator Co.....$15,980
Otis Elevator Co..... 12,990

Harbor Commission Awards Contract.

Healy-Tibbitts Co. Secures Contract For Extensive Repairs to Pier No. 13. Five Other Figures.

Bids were opened Thursday by the State Board of Harbor Commissioners for the reconstruction of Pier 13. Healy-Tibbitts Construction Co. submitted the lowest figure for the work at $99,317 and were awarded the contract. Following other bids were received for the work:

Reconstruction Pier 13.

Healy-Tibbitts Co.....$ 99,317.00
Tibbitts Pacific Co..... 123,179.65
Commary-Peterson Co... 118,531.95
Thomson Bridge Co..... 108,282.80
San Francisco Bridge Co. 106,218.00

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Upon the recommendation of Commissioner William J. Baccus, the following street resolutions were passed by the City Council: Directing the City Engineer to prepare plans and specifications for paving with asphalt and otherwise improving College avenue from Broadway to the Northern line of the city of Oakland. Directing the City Engineer to prepare plans and specifications and resolutions of intention for the improvement of 39th avenue between East 14th street and Foothill Boulevard. Adopting plans and specifications for the improvement of Scenic avenue between Lincoln avenue and Laguna avenue, and recommending the passage of resolution of intention for same. Recommending passage of resolution of intention for sidewalking portions of Stow avenue, East 26th street, East 14th street and East 37th street. Bids on these improvements will be taken shortly.

SEWER CONSTRUCTION—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer Berkeley. Owners, City of Berkeley. The City Council has passed a resolution of intention providing for the following improvements: That a six-inch vitrified, ironstone pipe sewer be constructed in High Court Tract from the bottom of the manhole in front of lot 20 of said tract westerly along the path on the southern and western sides of lot 3 of said tract to the bottom of the manhole in front of lots 5 to 8 of said tract; that a concrete catch basin with curb inlet and cast iron grating and cover be constructed in the gutter of High Court in front of lot 6 of said High Court Tract and that an 8-inch corrugated iron pipe be laid from said catch basin easterly to the above mentioned path and along said path to the western gutter of said High Court, where said gutter is intersected by the eastern extension of the northern line of lot 4 of said High Court Tract. Bids on this work will be called for shortly.

APARTMENT HOUSE—2 story and base, frame, $6,000. Oakland, Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, East Oakland. Will contain six apartments of three and four rooms. Interior finish pine and redwood with some hardwood floors. Wall beds and private bath rooms. Hot water system. Composition floors in baths. Exterior covered with rustic and cement plaster. Plans being prepared.

FLATS AND STORE—2 story and base, frame, $9,000. Alameda, Alameda Co., Cal. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Versailles near Encinal avenue. Will contain several stores on the ground floor and modern flats above. Interior finish pine and white enamel. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Justus Norris, 2828 Richmond, Oakland. Location, east College south of Bryant. Will contain six rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, F. N. Fabing, 3515 13th avenue, Oakland. Location, south East 34th street east of Park Boulevard. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,600 each. Oakland, Cal. Architects, Banning & Stewart, 521 Broadway, Oakland. Owners, Banning & Stewart, 521 Broadway. Location, north Prospect drive east of Broadway. Each dwelling will contain six rooms and bath. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, log, $8,000. Oakland, Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, W. Hawley. Location, Thousand Oaks Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels stone and brick. Bath rooms tile. Automatic water heater. Exterior logs from the Exposition. Plans being prepared.

City Bids Opened.

Board of Public Works Opens Figures For Heating and Ventilating at S. F. Hospital and For Fence.

Bids were opened at the Friday meeting of the San Francisco Board of Public Works for the heating, ventilating and refrigerating work in the southeast wing of the San Francisco Hospital and also for fence at the County Jail. Following is a complete list of the bids received:

Fence at County Jail.

T. McClenahan $3,682
Grace & Bernieri..... 3,690
Bay City Bldg. Co..... 4,385
D. Graham 3,670
C. Wold Co..... 4,951
American Bldg. Material Co..... 4,530
Anderson & Ringrose..... 4,343
J. McSheehy 3,628
G. Newson 4,188
F. Riley 3,820

Heating and Ventilating, S. F. Hospital

Wittman-Lyman Co.	$24,577	$ 245	$.....
H. Lawson	31,800	31,400	31,600
Kiernan & O'Brien	28,889	500	.....
F. P. Walsh	25,980	625	100
J. E. O'Mara	26,400	400	.....
J. Hurley Co.	27,067	300	.....
F. McKeon	27,250	240	.....
Scott Co.	28,980	510	10
Atlas Heating & Ventilating Co.	29,850	750	135
Turner Co.	29,590	340	.....
Robert Dalziel	28,597	28,277	.....

RESIDENCES—3, 1 story and base, frame, $2,000 to $2,500 each. Alameda, Alameda Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Willow street. Each dwelling will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,250. Oakland, Cal. Architect, none. Owner, C. M MacGregor, 470 13th street, Oakland. Location, northwest corner of East 38th street and Woodruff. Will contain five rooms, bath and sleeping porch. Interior finish pine throughout. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Paul E. Woodburn, 3965 Greenwood avenue, Oakland. Location, east Everett south of Vista street. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, M. P. Brasch, 5826 Ocean View Drive, Berkeley. Location, east San Mateo north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,500. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, Rockridge Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $10,000. Alameda, Alameda Co., Cal. Architects, Mitwain Bros., Albany Bldg., Oakland. Owner, George A. Kernick. Location, St. Charles street. Will contain ten rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, I. W. Button, 347 63rd street, Oakland. Location, west Arbor north of Hudson. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, none. Owner, G. Taylor, 96 Peart street, Oakland. Location, southwest 38th and Manila avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, A. Hammarberg, 2758 Piedmont avenue, Oakland. Location, west Santa Clara south of Chetwood. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,700. Alameda, Alameda Co., Cal. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, 3226 Bayo Vista. Will contain six rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, I. P. Diggs. Location, Country Club Heights. Each house will contain eight rooms, two baths and sleeping porches. Separate garages will be erected. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $1,500 each. Berkeley, Alameda Co., Cal. Architect, none. Owner, C. S. Nichols, 1719 Castro street, Oakland. Location, north Ward east Mable. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, G. Siegrest, 605 Market street Oakland. Location, south Hopkins east of Laguna. Will contain six rooms, bath and sleeping porch. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater Exterior covered with shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $15,000. Oakland, Cal. Architect, Louis M. Upton, 111 Ellis street, S. F. Owner, George Hammar. Location, King avenue. Will contain fourteen rooms, three baths and sleeping porch. Separate garage and formal landscape gardening. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with shingles. Plans complete and figures being taken.

RESIDENCES—3, 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Mr. Tarpy. Location, 7th street and Santa Clara avenue. Each will contain five rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Alameda, Alameda Co., Cal. Architect, none. Owner, C. E. Wheeland, 1037 Fillmore street, S. F. Location, Jerome avenue. Will contain seven rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Waterside Terrace. Each will contain five rooms and bath. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,000 each. Oakland, Cal. Architect, M. I. Diggs Syndicate Bldg., Oakland. Owner, G. R. Williams. Location, Highland Terrace. Each will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base, frame, $15,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, 41st street and Manila avenue. Will contain a number of two and three room apartments with wall beds and private bath rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and oil burning system. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $4,000 each. Alameda, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, C. C. Adams. Location, Waterside Terrace. Each house will contain seven rooms, bath and sleeping porch. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. A. Anderson. Location, Peralta Terrace. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame. Cost not stated. Alameda, Alameda Co., Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, D. M. McLaughlin. Location, Waterside Terrace. Each will contain seven rooms, baths, sleeping porch and a garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Tile bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared.

RESIDENCES—20, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, Rockridge Park. Each house will contain seven and eight rooms, two baths and sleeping porches. Separate garages will be erected. Interior finish pine and redwood with some hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCES—6, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Bay View and 28th street. Will contain from seven to eight rooms, baths and sleeping porches. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster Plans being prepared and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,200. Berkeley, Alameda Co., Cal. Architects, Schirmer, Bugbee & Co., Dalziel Bldg., Oakland. Owner, H. Suermondt. Location, Spruce street. Will contain two flats of five and six rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLAT ALTERATION—2 story, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, G. Dygert. Location, Ashby avenue. Work will consist of altering the present two-story frame dwelling into two modern flats. Included in the work will be new interior trim, carpentry work, mill work, plastering, plumbing and electric work and painting. Exterior will be covered with cement plaster. Plans are complete and figures are being taken.

FLOUR MILLING PLANT AND WHARF—4 story, reinforced concrete, $150,000 or more. Oakland, Cal. Engineer, Robert M. Hemmingsen, Security Bank Bldg., Oakland. Owners, Albers Bros., Milling Co., 332 Pine street, S. F. Location, Key Route Fill. The engineer has just been selected and other than the fact that the construction will be of reinforced concrete and that a wharf and a four-story milling plant are to be erected no details can be given. Further mention will be made of the work.

SAN JOSE AND THE SANTA CLARA VALLEY

DRAINAGE SEWERS — Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer D. F. Davies, Salinas. Owners, City of Salinas. The matter of constructing a storm drainage system in this city was taken up at the last meeting of the City Council when City Engineer D. F. Davies presented two maps, one of Salinas City and the other of the region from Salinas to the Salinas River and vicinity. Davies submitted three propositions for the consideration of the Council: One to pump the water into the Rincon Del San Jon slough and clear that slough out for several miles; one to send all the water through the Carr ditch, which would have to be cleared out and cleaned as far as the elephant tree, and one to use the 16½-foot sanitary sewer right of way from the corner of Alisal street and Homestead avenue to the Salinas River for a storm sewer. Further consideration of the proposed work will be taken up at the next meeting.

SEWER CONSTRUCTION AND STREET PAVING — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. The Town Trustees at their last meeting passed resolutions of intention providing for the construction of a 12-inch sewer, manholes, etc., in certain streets throughout the town. A resolution was also passed providing for the following work: That East Brewster avenue in the Town of Redwood City be improved by grading, macadamizing and oiling for its full width from North El Camino Real, also known as the County Road, to the south line of Arguello street. All macadamizing and oiling to be done to the official grades. Bids will be called for shortly on this work.

HIGHWAY REPAIRS—Cost not stated. Redwood City San Mateo Co., Cal. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Bids will be opened on March 13th for the reconstruction of a portion of the Colma to Half Moon Bay road near Farrallone, recently destroyed by floods, located in the Fourth Road District.

SEWER CONSTRUCTION—Cost not stated. Santa Cruz, Santa Cruz Co., al. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council an order was made for the paving and sewering of Soquel, Pacheco and Melrose avenues and Frederick and Windsor streets. The specifications do not include a drain, which will be included in a larger district later. Bids will be called on the completion of plans.

STREET WORK — ost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were adopted ordering work and calling for blds for the street work on Broadway from the railroad track to the county road. Plans may be had from the office of the City Clerk at Redwood City.

SCHOOL—1 story, frame. Cost not stated. San Bruno, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. The official date for opening bids for this building has been set for March 16th at 8 p. m. Plans can be secured from the architects.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STORM WATER AND SANITARY SEWERS—$26,600 and $14,000. Martinez, Contra Costa Co., Cal. Engineer, City Engineer E. C. Brown, Martinez. Owners, City of Martinez. Preliminary plans and an estimate of cost have been prepared for constructing both sanitary and storm sewers throughout the city. The report and estimate will be acted upon at the next meeting of the Council.

FIRE PROTECTION SYSTEM — $51,328. Martinez, Contra Costa Co., Cal. Engineer, City Engineer E. C. Brown, Martinez. Owners, City of Martinez. City Engineer E. C. Brown has submitted to the City Trustees his report on the proposed new salt water system for fire protection, which can be installed, according to the report, at a cost of $51,328.86, inclusive of pipes, pumping apparatus and hydrants.

APARTMENT HOUSE—2 story and base frame, $10,000. Richmond, Contra Costa Co., Cal. Architect, Eugene K. Martin, 2192 Shattuck avenue Berkeley. Owner, Mr. Elsup. Location, Macdonald avenue. Will contain twelve suites of three rooms and bath each. Interior finish pine throughout. Some hardwood floors. Gas radiators. Bath rooms composition floors. Wall beds. Exterior faced with cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $5,000. Richmond, Contra Costa Co., Cal. Architect, none. Owner, Herbert F. Brown, Wells-Fargo Bldg., S. F. Will contain a number of two-room apartments. Interior finish pine. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 2 story and base, frame, $17,500. Mt. Diablo, Contra Costa Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. N. Burgess. Will contain twelve rooms, three baths and sleeping porch. A separate garage will be erected on the property. Interior finish pine and hardwood with some white enamel. Hardwood floors throughout except in the baths which will be finished in tile. Furnace heat, hot water circulating system and open fire places. Mantels tile and brick. Exterior coered with shingles. Plans complete and figures being taken.

STREET PAVING—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. Plans are being prepared by City Engineer Chapman for the improvement of 23rd street north from Macdonald to Esmond avenue. Proposals offered as to the improvement of the street were that it should have a five-inch concrete base and a two-inch bitulithic surfacing. Bids will be called for shortly.

ROAD CONSTRUCTION — Cost not stated. Martinez, Contra Costa Co., al. Engineer, County Surveyor Arnold,

Martinez. Owners, Contra Costa County. The Supervisors at their last meeting directed County Engineer R. R. Arnold to prepare plans and specifications for the building of the concrete road from Bryant station to Walnut Creek. Plans must be completed by March 6th so as to call for bids. Further mention will be made of this work.

RESIDENCE ALTERATIONS—Frame Cost not stated. Kentfield, Marin Co., Cal. Architects, Bliss & Faville, Balboa Bldg., S. F. Owner, William Kent. Work will consist of interior and exterior alterations and will include carpentry, brick work, mill work, plastering, painting, plumbing and electric work. Plans are complete and figures are being taken.

BRIDGE—Steel and reinforced concrete, $10,471. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Contractors, Chambers & Heafey, Bacon Bldg., Oakland. Contract price, $10,471. Following is a complete list of the bids received: J. H. Brown, $13,-983.24; B. McDonald, $12,111.25; J. R. Cahill, $12,846; Chambers & Heafy, $10,471; C. A. Bruce, $11,673; Peterson & Grier, $12,640; Marsh Bros. & Gardinier, $13,100; Marin Rock Co., $11,103; F. F. Moore, $13,445; Whitlock & Gorrill, $11,930; Alfred Matson, $10,925; McRae & Layaz, $11,310; Chas E. Cotton, $10,971; Gilderslieve Construction Co., $11,030; M. E. Farnandez, $11,012; V. M. Price, $11,700.

CHURCH—1 story and base, reinforced concrete, $30,000. Napa, Napa Co., Cal. Architect, L. M. Turton, Napa. Owners, Centenary Methodist Church. Designed in the Mission style. Will contain main auditorium, Sunday school rooms, social halls and pastor's study. Interior finish pine and ornamental plaster. Art glass windows. Furnace heat and oil burning equipment. Exterior faced with cement plaster. Plans being prepared.

COURT HOUSE WIRING—Cost as follows. San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. At the last meeting of the Board of Supervisors bids were opened as follows for wiring the court house: Bogle's Electric Works, $1,040; Ross Electrical Works, $924; Mutual Electric Co., $710; G. W. Fox, $920. The two lowest bids were taken under consideration.

Contracts Awarded.

MANUFACTURING PLANT—1 and 2 story, brick and reinforced concrete, $750,000. Richmond, Contra Costa Co., Cal. Architects, Klipstein & Rathmann, St. Louis, Mo. Owners, General Roofing Mfg. Co., Insurnace Exchange Bldg., S. F. Contractors, Wimmer Contracting Co., at the site. Foundation work started.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

STREET PAVING—Cost not stated. Kingsburg, Fresno Co., Cal. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. Bids will be opened on March 6th at 8 p. m. for the improvement of Simpson street as follows: A strip 21 feet in width through the central portion of said street shall be graded and paved with a cement concrete base, 4 inches thick with an asphaltic wearing surface 3-8 inch thick; the balance of the roadway of said street to the curb lines of each side thereof shall be graded, all of said grading and paving to be to the official grade.

ROAD CONSTRUCTION — Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Engineer, Modesto. Owners, Stanislaus County. Bids will be opened on March 14th for the consmtruction of approximately one mile of concrete road with a 1½-inch wearing surface near the city of Newman, and the scarifying of approximately two miles of road leading to the road to be paved, also for the construction of approximately four miles of paved road running north from the city of Modesto (McHenry Road) in the County of Stanislaus

SEWERS—Storm water and sanitary. Cost as follows: Fresno, Fresno Co. Cal. Engineer, City Engineer, Cronkite, Fresno. Owners, City of Fresno. City Engineer Cronkite will be ready to submit plans and specifications at the next meeting of the City Council for a $350,000 sanitary sewer system and a storm water drainage system to cost $150,000. Plans for the sewer work provide for 10½ miles of pipe and 7½ miles of pipe for the drainage system. The present sewer system will be entirely utilized in the new one. The line of the additional sewer pipe will be: 18-inch pipe from Hamilton and Sarah streets along Sarah street to Florence, 20-inch pipe along Florence to Elm, 24-inch pipe along Elm to Church, 30-inch pipe along Church to Fruit avenue, and 60-inch pipe along Church avenue to Jefferson avenue, then to a point near Braly and then along Jensen avenue to the sewer farm. Laterals will also be constructed to care for other sections of the city. Further mention will be made of this work when action is taken.

STREET PAVING—$200,000. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. New paving, together with what has already been ordered at a cost of over $200,000, was arranged for by the City Trustees at their last meeting and bids will be called for shortly. The new paving includes all of South Garden street to Tulare avenue this having been petitioned for by a delegation of property owners on the street, who asked for the order with the understanding that the paving should be the full 40 feet width. The plans and specifications were adopted and resolution of intention to pave East street (the Santa Fe Railroad) from School to Mineral King avenue, Oak street from Court to Garden, Acequia from Court to Floral, and North Church to northeast 1st avenue, were passed and the City Engineer was instructed to prepare plans and specifications for South Garden and Tulare avenue. Further mention will be made of this work.

STREET PAVING — $400,000. Hanford Kings Co., Cal. Engineer, City Engineer, Hanford. Owners, City of Hanford. The Board of Trustees has decided upon a paving project which will mean the expenditure of close to $400,000 before it is completed. The four main north and south streets, Irwin, Douty, Redington and Harris, will be paved from 6th street to the north city limits, and either Ivy, Myrtle or Elm will be paved to link these main thoroughfares together. The Board has decided that all the paving shall be done under the district plan, the property owners along the paved streets paying 75 per cent of the cost and those in the district paying on a graduated scale, according to the distance their property is located from the improved roadways. Further mention will be made of this work.

PUMPING STATION—1 story, brick, $2,500. Fresno, Fresno Co., Cal. Architects, Coates & Travor, Rowell Bldg., Fresno. Owners, Fresno City Water Co. Location, Glen and Nielson streets. Will cover an area of 60 by 60 feet. Concrete floor, tile and terra cotta wainscot. Exterior faced with cement plaster. Red tile roof. Plans being prepared.

PUMPING STATIONS—6, 1 story, reinforced concrete. Cost as follows. Bakersfield, Kern Co., Cal. Engineer's name not given. Owners, Associated Pipe Line Co., S. F. The expenditure of $1,500,000 in the construction of six additional oil pumping stations between Bakersfield and Mendota is planned by the Associated Pipe Line Company. Stations will be erected at Lerdo, Earlimart, Tulare, Kingsburg, Fresno and west of Kerman. The plants will be 60 by 60 feet and will cost about $200,000 each.

RESIDENCE — 1 story frame, $1,800. Fresno, Fresno Co., Cal. Architect, none. Owner, O. D. Atkins, 3219 Kerckhoff street, Fresno. Location, Orchard Hill Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET PAVING—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. Bids will be received up to March 6th for paving Ventura avenue from the west line of Angus street to the east city limits, be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 2-inch bitulithic wearing surface laid upon a 5-inch concrete base, also that corrugated iron culverts and cast iron return culverts be constructed. Also, Santa Fe avenue from the east line of Kern street to the Friant branch of the Southern Pacific Railroad, be graded, curbed and guttered with cement concrete curb and gutter, and paved with a pavement consisting of a cement concrete base 5 inches thick and a bitulithic wearing surface 2 inches thick; also that there be constructed two corrugated iron culverts and four cast iron return culverts. Also, First street from the north line of Ventura avenue to the north line of Ulare avenue, and that Kerckhoff avenue from the east line of First street to the west line of Eighth street, be graded, sidewalked with artificial stone sidewalk, curbed and guttered with cement concrete curb and gutter, and paved with 1½-inch Warrenite wearing surface laid upon 2½-inch asphalt concrete base, also that corrugated iron culverts and cast iron return culverts be constructed.

ELECTROLIER SYSTEM—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. Bids will be received until March 6th for construction of an electrolier street lighting system upon the following described streets in Fresno: Upon each side of J street from the northwest line of Merced street to the southeast line of Tuolumne street, and upon the southeast side of Tuolumne street from the southwest

line of J street to the northeast line of I street.

and concrete, $15,000. Modesto, Stanislaus Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Modesto. Only preliminary sketches have been prepared and details can not be given. The building will be designed for a high school. Further mention will be made of the work.

SCHOOL—1 story and base, concrete, brick and frame. Cost not stated. Wolters School District, Fresno Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wolters School District. Will contain four class rooms. Interior finish pine. Hot water heating system. Modern school plumbing. Exterior faced with cement plaster. Plans complete and figures being taken. Plans can be had from the architect.

STREET PAVING—$10,000. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Owners, City of Modesto. The paving of three blocks of McHenry avenue was provided for by the City Council at its last meeting when plans and specifications were adopted and a resolution of intention passed. The plans provide for the paving of the avenue from Needham and Annie streets to Stoddard avenue. The specifications provide for a standard concrete and asphalt road with the exception of the wearing surface. This will be what is known as the "Topeka Top."

BRIDGE—Concrete and timber. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. At the last meeting of the County Board of Supervisors plans and specifications prepared by the County Surveyor for a bridge over Edendale Creek on the Cox Ferry Road in Road District No. 3, the bridge to be known as Bridge No. 45, were approved and bids were ordered received up to March 7th, 10 a. m. The proposed structure will be of wood and concrete construction. Plans and specifications together with full information may be had from the County Clerk or Engineer at Merced.

BRIDGE—Reinforced concrete. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. At the last meeting of the County Board of Supervisors the County Surveyor was instructed to prepare plans and specifications for a reinforced concrete bridge to be constructed over the creek about one-half mile north of Bear Creek bridge on the Six-Mile Grade and Snelling road, in Road District No. 1. Bids on this work will be called for on the completion and acceptance of the plans by the Supervisors.

Contracts Awarded.

HIGHWAY IMPROVEMENT — $13,136.30. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractor, Leigh Garnsey, Central Bldg., L. A. Contract price, $13,136.30.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

WATERWORKS BOILERS, ETC.—Cost as follows. Yreka, Siskiyou Co., Cal. Engineer's name not given. Owners, Town of Yreka. Bids were opened by the City Trustees at their last meeting for furnishing boilers and engine for the waterworks as follows: Harron, Rickard & McCone, 139 Townsend street, S. F., two 50-horsepower boilers, $1,624, or one 100-horsepower boiler, $1,281; engine, $641. J. D. Fairchild, two second-hand 50-horsepower boilers, $506. The bids were laid over for further consideration.

IRRIGATION WORK—Cost not stated. Doyle, Lassen Co., Cal. Engineer, W. W. Wales, Woodland. Owners, Southern Lassen Irrigation District. Civil Engineer W. W. Wales is in conference with directors of the Southern Lassen Irrigation District relative to improvements to be started in the district in the next few weeks. Wales and Attorney L. L. Dennett of Modesto have prepared statistics and will present plans to the officers of the new association for development work. The district includes 22500 acres and the cost of bringing water to the land is estimated by Wales at $33 to $35 per acre. Further information will be given on this work when bids are called.

SEWER CONSTRUCTION — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be received until March 9th for excavating a trench and constructing therein an 8-inch vitrified, ironstone sewer pipe in Hollyhock avenue from the east boundary of the Alta Vista Addition to the east line of Wabash avenue.

RESIDENCE — 1 story and base, frame, $1,800. Sacramento, Cal. Architect, none. Owner, W. B. Phillip, 4011 Cypress avenue, Sacramento. Location, 3214 Allen avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior rustic and cement plaster. Plans complete and work to be done by Day Labor.

BOX FACTORY—2 story, frame, $35,000. Sacramento, Cal. Architect, C. S. McNally, Mechanics' Institute Bldg., S. F. Owner's name not given. Location, near Brighton. Will cover an area of 70 by 215½ feet. A large amount of special machinery will be required. Automatic sprinklers. All machines driven by independent motors. Exterior covered with rustic. Plans complete and figures to be called for later.

LODGE HALL—3 story and base. Class A construction, $80,000. Sacramento, Cal. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Sacramento Scottish Rite Hall Association. Location, corner 28th and L streets, covering an area of 142 by 80 feet. Will contain several handsomely finished lodge rooms, main auditorium, banquet rooms, offices, smoking rooms, and ladies' parlors. Interior finish pine, hardwood and ornamental plaster. Steam heat, oil burning system, vacuum cleaning and hot water supply. Metal window sash and frames. Hollow tile interior partitions. Exterior faced with white sandstone. Plans complete and contract for excavation awarded. General figures to be taken in thirty days.

HOTEL—4 story and base, brick, $25,000. Stockton, San Joaquin Co., Cal. Architects, Peter L. Sala and Frank V. Mayo, Commercial and Savings Bank Bldg., Stockton. Owners, Fontana & Delucchi. Location, Market between Sutter and San Joaquin. Arranged for a restaurant on the first floor and a number of hotel rooms and baths on the upper floors. Interior finish pine and hardwood. Steam heat, oil burning plant and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

HOSPITAL COTTAGES—2, 1 story and base, concrete and frame, $30,000 each. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall Sacramento. Owners, State of California. Two new cottages are to be erected at once at the Stockton State Hospital. One will be used for a female cottage and the other for a male ward. Interior will be finished in pine. There will be central heating systems and modern plumbing. Exteriors will be covered with cement plaster. Bids will be called for shortly.

HOSPITAL WARD—2 story and base, reinforced concrete and hollow tile. Cost not stated. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Plans have been completed for the main ward building of the new infirmary group and figures are now being taken. The building will cover an area of 50 by 150 feet. Interior will be finished in pine, white enamel and hardwood. Maple and tile floors. Steam heat, oil burning system. Modern hospital plumbing and electric work. Vacuum cleaning. Exterior faced with cement plaster. Bids will be opened on March 24th at 2 p. m.

SCHOOL—1 story and base, brick, $35,000. Lodi, San Joaquin Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Lodi School District. Will contain six class rooms and an auditorium. Interior finish pine with some maple floors. Steam heat, oil burning furnace and vacuum cleaning. Slate blackboards. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close on March 13th. Plans can be secured from the architects.

SCHOOL—1 story and base, frame and plaster, $10,000. Lathrop, San Joaquin Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, Tulare School District. Will contain four class rooms. Interior finish pine with some maple floors. Steam heat, oil burning furnace. Modern school plumbing. Exterior covered with cement plaster. Plans complete and figures being taken. Bids close on March 16th. Plans can be secured from the architects.

Contracts Awarded.

SEWER CONSTRUCTION—$9,643.47. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, F. C. McIntire, 215 East Weber street, Stockton. Contract price, $9,643.47.

STREET LIGHTING SYSTEM — $2,850. Red Bluff, Tehama Co., Cal. Engineer, City Engineer, Red Bluff. Owners, City of Red Bluff. Contractors, Northern Electric Co., S. F. Contract price, $2,850.

WATER STATION—1 story, reinforced concrete, $11,629. Eureka, Humboldt Co., Cal. Architect, Burke, Eureka. Owners, City of Eureka. Contractors, Elsemore & Jacobs, 422 H street, Eureka. Contract price, $11,629.

HOSPITAL NURSES HOME—2 story and base, reinforced concrete and hollow tile, $35,970. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County.

Contractor, William Keating, Sacramento. Contract price, $35,970.

DETENTION HOME—1 story, concrete, $10,215. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Contractor, William Murcell Sacramento. Contract price, $10,210.

IRRIGATION DITCHES, ETC.—Cost not stated. Butte City, Butte Co., Cal. Engineer's name not given. Owners, East Washington Dodge Rice Project. Contractor, Peter Hoar, Chico. Contract price not stated.

LOS ANGELES AND SOUTHERN CALIFORNIA

WATER PIPE—Cast iron. Cost not stated. Las Angeles, Cal. Engineer, City Engineer Mulholland, L. A. Owners, City of Los Angeles. At the last meeting of the Board of Public Service Commissioners specifications for 1,600 tons of cast iron pipe were presented by Aqueduct Engineer Mulholland. The Board ordered bids advertised for. The pipe will be needed in providing for improvement of the service recently operated by the Glendale Consolidated Water Co. but taken over by the department. Further information may be had from the Clerk of the Board at Los Angeles.

WASTE CANAL—Cost not stated. Holtville, Imperial Co., Cal. Engineer, Rockwood, Holtville. Owners, Imperial Irrigation District. At a recent meeting, directors of the Imperial Irrigation District instructed Engineer Rockwood to report to the Board on the advisability of constructing a waste canal connecting No. 2 main with the Alamo. It is proposed to make the outlet in No. 2 main about a mile north of Allison's heading, and would be for the relief of water companies 5, 7 and 2. Further mention will be made of this when a report is given.

BRIDGES—2 reinforced concrete and steel. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineers, Mayberry & Johnson, Santa Barbara. Owners, Santa Barbara County. Plans for two highway bridges prepared by Engineers Mayberry & Johnson have been accepted by the Highway Department, and bids have been ordered called. The structures are known as 386 plus 60 and 289 plus 25, in Section C of the State Highway in Santa Barbara County. They are the bridges near Los Alamos over the San Antonio or Los Alamos creek near the Calef ranch. Plans may be had from the County Clerk at Santa Barbara.

BRIDGE—Steel and concrete, $35,000. Los Angeles, Cal. Engineer, City Engineer, L. A. Owners, City of Los Angeles. The City Council agreed to enter into an arrangement for the building of the Sherman way bridge, under which the city will pay one-fourth of the cost, an assessment district another fourth and the Pacific Electric one half.

BRIDGES — 3, reinforced concrete. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery, labor and material necessary for constructing a three hinged reinforced concrete bridges. The bridges will be located as follows: Skew bridge, Gaviota Creek at station No. 108-49 to 100-63, on the line of the State Highway, in the Fourth Road District.

BRIDGE—Reinforced concrete. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery, labor and materials necessary for constructing a reinforced concrete bridge over Zara Creek at station No. 148-00 on the line of the State Highway in the Third Road District.

BRIDGE — Hinged, reinforced concrete. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be opened on March 6th at 10 a. m. for furnishing all tools, machinery, labor and materials necessary for the construction of a three-hinged concrete arch bridge over Gaviota Creek at station No. 103-65 to 104-79 on the line of the State Highway in the Fourth Road District.

APARTMENT HOUSE—4 and 6 story and base, brick and steel, $100,000. Los Angeles, Cal. Architect, C. F. Borton, Hibernian Bldg., L. A. Owner, C. F. Borton. Location, Olive street near 3rd. Will contain 125 rooms arranged in suites of two and three rooms. Wall beds and private baths. Interior finish pine and hardwood. Hardwood floors. Steam heat, oil burning system, elevator service and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

APARTMENT HOUSE—4 story and base. Class C construction, $50,000. Architect, none. Owner, Miss Cecelia Bart. Location, 538 Fremont avenue, covering an area of 60 by 130 feet. Will contain 93 rooms arranged in two and three room suites. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Wall beds. Exterior faced with pressed brick. Plans complete and work to be carried on by L. F. S. Syndicate, 622 Investment Bldg., L. A.

WATER PIPE—$650,000. Los Angeles, Cal. Engineer, Chief Engineer Mulholland, L. A. Owners, Los Angeles County. Bids for furnishing approximately 6,000 tons of water pipe for the San Fernando Valley distributing system and involving a contract amounting to more than $650,000 were opened by the Board of Supervisors a few days ago, and referred to Chief Engineer Mulholland of the district and the county counsel for a recommendation. The bids follow:

Baker Iron Works, 912 Broadway, L. A.—1728 tons, $146,728; item No. 2, 899 tons, $103,265; item No. 3, 791 tons, $90,489; item No. 4, 2,900 tons, $319,865. Total bid, 5,918 tons, $660,347.

Lacey Manufacturing Co., Flood Bldg., S. F. and L. A.—Item No. 1, 1,324 tons, $112,687; item No. 2, 891 tons, $97,119; item No. 3, 773 tons, $84,257; item No. 4, 2,910 tons, $322,734. Total bid, 5,898 tons, $616,798.

Western Pipe and Steel Co., 144 Market street, S. F.—Item No. 3, 784 tons, $89,925, item No. 4, 2,898 tons, $319,198. Total bid, 3,682 tons, $409,123.

Llewellyn Iron Works, Main and Redondo streets, L. A.—Item No. 1, 1,335 tons, $110,175; item No. 2, 886 tons, $106,000. Total bid, 2,221 tons, $216,295.

Los Angeles Manufacturing Co—Item No. 4, 2,725 tons, $251,375.

A summary of these bids shows the following to be the lowest on each of the four items: Llewellyn Iron Works, item No. 1; Lacy Manufacturing Co., items No. 2 and 3; Los Angeles Manufacturing Co., item No. 4. An award will be made shortly.

WATER PIPE — Cost not stated. Glendale, Los Angeles Co., Cal. Engineer, Public Service Dept., Glendale. Owners, Town of Glendale. The City Clerk has been instructed to advertise for bids for 6,000 feet of 20-inch cast iron water pipe. The specifications for same were adopted as framed by the Public Service Department.

HOSPITAL GROUP—Steel and brick, $100,000. San Bernardino, San Bernardino Co., Cal. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. It is the intention of the Supervisors to receive estimates for the rough construction work only of the administration building and service building, the east wing of the former building being omitted, also. One general bid only will be taken, as it is the intention of the Board to construct nothing but the exterior enclosing walls and roof, leaving the interior unfinished for the present or until and additional appropriation can be secured. The administration building will cover an area of 90 by 56 feet and be four stories high; there will be a two-story wing, 90 by 46 feet with and L 27 by 56 feet. The service building will be one story high, 88 by 115 feet and 17 feet high.

SCHOOL—4 story and base. Class A construction, $434,931. Los Angeles, Cal. Architect, J. C. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. The following firms submitted the low figures for the various parts of the work mentioned below: General construction, Los Angeles Planing Mill Co., 1812 Industrial street, L. A. Plumbing, J. T. Newell, 137 West 17th street, L. A., $26,148. Heating, Hoagland-Lakin Electric and Engineering Co., $29,210. Program clock, Standard Electric Time Co., $2,000. Electric work, California Electric Co., $15,110. The bids were referred to the architect, business supervisor and auditor for a report.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $10,908.32. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, E. A. Garland, Santa Barbara. Contract price, $10,908.32.

STREET IMPROVEMENT — $35,325. Santa Monica, Los Angeles Co., Cal. Engineer, City Engineer, Santa Monica. Owners, City of Santa Monica. Contractors, J. D. Kneen Contracting Co., Santa Monica. Contract price, $35,325.

STREET IMPROVEMENT—$140,000. Los Angeles, Cal. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractors, Oswald Bros., O. T. Johnson Bldg., L. A. Contract price, $140,000. Taken on an assignment made by R. H. McCray.

STREET IMPROVEMENT — $12,500. Los Angeles, Cal. Engineer, City Engineer, L. A. Owners, City of Los Angeles. Contractor, Fred Hoffman, Long Beach. Contract price, $12,500.

LUMBER FOR DESERT ROAD — $25,000. Imperial, Imperial Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, E. K.

Wood Co., L. A. Contract for furnishing 1,250,000 feet of lumber for plank road. Contract price, $25,000, approximately.

RESIDENCE — 2 story and base, frame, $16,495.75. Pasadena, Los Angeles Co., Cal. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, William A. Magie. Contractors, Billings & Whelstine, 514 Howard street, Pasadena. Contract price, $16,495.75.

WOOD STAVE PIPE—$30,373. San Diego, San Diego Co., Cal. Engineer, City Engineer, San Diego Owners, City of San Diego. Contractors, Pacific Pacific Tank and Pipe Co., 5th and Bryant streets, S. F. Contract for 10,000 feet of 36-inch pipe and 6,000 feet of 24-inch pipe, $30,373.

PORTLAND AND OREGON

BRIDGE—Steel and concrete, $250,000. Salem, Ore. Engineer, State Engineer Lewis, Salem. Owners, Marion and Polk Counties. Acting upon a petition presented jointly by the county courts of Marion and Polk Counties, the State Highway Commission at their last meeting authorized the State Engineer to prepare plans and specifications for the proposed Marion-Polk county bridge. The petition asked further that the Highway Commission superintend the construction of the bridge and this request will also be granted. Bids will be called for on the completion of the plans.

APARTMENT HOUSE—2 story and base, brick, $30,000. Portland, Ore. Architects, F. E. Bowman & Co., Commercial Club Bldg., Portland. Owners, F. E. Bowman & Co. Location, 19th and Elm streets. Will contain a number of two and three room apartments. Interior finish pine and hardwood. Wall beds. Steam heat and hot water system. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

BRIDGE CONSTRUCTION—Cost as follows. Salem, Ore. Engineer, J. H. Lewis, Salem. Owners, State of Oregon. The bridge department, under State Engineer J. H. Lewis, has sent out the following plans and specifications for which proposals for construction will be accepted by the counties within a short period: One 360-foot reinforced concrete viaduct on B street near the college at McMinnville, estimated cost, $14,000. One 160-foot steel span between Athey's Island and the mainland over Willamette slough in Yamhill County below Wheatland. The estimated cost for this structure is $13,000. One 100-foot steel span at Veronia in Columbia County over Rock Creek and one 50-foot plate girder span over Tide Creek in Columbia County near Deer Island. The Highway Department has been requested to supervise the construction of the 360-foot reinforced concrete viaduct and the 160-foot steel span between Athey's Island and the mainland, both in Yamhill County. Bids will be called for shortly on this work.

MUNICIPAL AUDITORIUM—3 story and base, $317,400. Portland, Ore. Architect's name not given. Owners, City of Portland. Bids opened for the construction of the proposed Class A Municipal Auditorium in Portland show Hans Pederson of Seattle low at $317,400. The contract will probably be awarded in a few days.

Contracts Awarded.

MAUSOLEUM—1 story and base, reinforced concrete and granite, $50,000. Portland, Ore. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Portland Mausoleum Co. Contractors, Parker & Banfield, Columbia Bldg., Portland. Contract price, $50,000.

SEATTLE AND WASHINGTON

Contracts Awarded.

LOFTS AND WAREHOUSE—5 story and base, reinforced concrete, $500,000. Seattle, Wash. Architect's name not given. Owners, Union Terminals, Ltd., Henry Bldg., Seattle. Contractors, Pearson Construction Co., New York Bldg. Seattle. Contract price, $500,000.

MATERIALS THAT LAST.

Tile, Brick and Concrete Work Well in Combination.

Taking tile, brick and concrete all together, we have three excellent building materials, and they work well in combination with each other. Concrete is a general favorite for foundations, piers, walks, platforms and things built near the ground. It sets solid and makes an excellent base for most anything, says D. S. Burch in Farm and Fireside.

Tile and brick are used largely for walls and work higher up. All three materials can be reinforced by rods or wires laid in the joints. And, by the way, barbed wire and woven wire are both good as reinforcing material In tile special groves are made to receive reinforcement. Thus, in making a tile silo you have your hoops just the same as for a wood silo, but they are right in the wall, firmly embedded so they can't slip up or down and protected forever from rust. The reason you can conceal the hoops is because tile neither skrinks or swells, and there would never be any occasion to touch the hoops

I would hesitate to say that any building is fireproof, but certainly neither concrete, brick nor tile can burn or be greatly harmed, even though all the contents of a building burned up. Brick, for instance, is made by heating clay to 3,000 degrees F. and can't burn any more. Tile and cement are also the direct products of furnace heat hot enough to melt the ordinary metals.

Wood is an excellent building material because it is so easy to handle. You can saw, chisel and shape it any way you want and then fasten it together with nails, screws or bolts. Every town has at least one lumber yard and wood is easy to get. Cement, brick and tile are harder to procure in some localities and a little more difficult to work with but when you are all through and you clean off your trowel you feel just a little better satisfied, because what you have built is permanent, fireproof and will need neither painting nor repairs for years to come. You can safely cut down your insurance policies, because there is less to burn up, but the chances are you'll never have a fire.

LEONARD CONSTRUCTION CO. PURCHASE ANOTHER AUSTIN.

The Leonard Construction Co. of Chicago, who have the contract to erect the Overland Building at Bush and Van Ness avenue, just purchased a No. 17 Cube Standard Mixer, which holds 22 cubic feet per batch. This sale makes the 24th machine of this type that the Leonard people have purchased.

They state that they have been able to land a batch every 35 seconds, handling 325 cubic yards in a day's run.

The J. H. Hansen Co., Balboa Bldg., San Francisco, have taken over the agency for the State of California for the Austin Cube Mixers, Street Pavers, Hot Mixers and Asphalt Plant.

A report of an investigation by the United State Bureau of Standards, "Standard Test Specimen of Zinc Bronze," reviewed in Commerce Reports for October 28, 1915, has been issued as Technologic Paper No. 59, and may be obtained by persons interested upon application to the Bureau of Standards, Washington, D. C.

IRRIGATION IN CALIFORNIA.

SACRAMENTO, Cal.—In the past 15 years there have been formed in California under the irrigation act which was recently amended to meet current demands sixty-two irrigation districts with an area of close upon 3,000,000 acres, according to an extensive report on irrigation in California, given out by the state engineering department. Although definite data as to cost has not been available in all instances, it is estimated that the total cost of watering this area has been close to $20,000,000. Definite figures on 2,132,489 acres under irrigation show the cost for that acreage to be $12,142,011.

Since the report was prepared and placed in the hands of the state printer for publication, the Carmichael district, near Fair Oaks, 1,306.52 acres; west side, near Tracy, 11,500 acres; Terra Bella, 12,500 acres; Lindsay-Strathmore, east of Lindsay, approximately 18,000 acres, and south Lassen district, near Doyle, with 22,000 acres, have been organized.

A number of other districts are contemplating immediate formation. They are the Paradise, Thermalito, Oroville, Willows, Princeton, one Morgan Hill, Merced, Madera Stratton and Cardiff districts.

HOW IRRIGATION STARTED.

"Jack and Jill went up the hill
To fetch a pail of water;
Jack fell down and broke his crown
And Jill came tumbling after."

Said Jill to Jack: "Confound the hill!
Why carry water down it?
We'll dig a sluice and turn it loose,
And levy tribute on it."

No more up hill tore Mrs. Jill,
And she and "pails" have parted.
Jack's broken crown hath brought renown;
Thus irrigation started.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Coutracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
912	Leventritt	Cal. Steel	5150
913	Leventritt	Ward	16552
914	Bray	Sinnott	9680
915	Nelson	Nelson	2250
916	Same	Same	2750
917	Same	Same	1900
918	Same	Same	1900
919	Same	Same	2500
920	Same	Same	2500
921	Lurmann	Lurmann	7875
922	Lawson	Lawson	500
923	Pennington	Pennington	400
924	Yates	Yates	2900
925	Urban	Urban	3500
926	Rourke	Rourke	4000
927	Buckingham	Robinson	400
928	Paulsen	Paulsen	400
929	Rench	Rench	3600
930	Peterson	Sjorgren	700
931	Foster	Kleiser	400
932	Smoljan	Dadas	600
933	Janich	Kusich	750
934	Marine Grotto	Novelty	450
935	Prager Co	Vail	800
936	Cebrian	Larson	72750
937	Same	Decker	2295
938	Otto	Nelson	12000
939	McManus	Rive	10876
940	Giom	Camilli	1775
941	Rouda	Hemminga	7000
942	Noltemeir	Martin	2750
943	Lange Invst	Cameron	8200
944	Ryland	Central Elec	1743
945	Davis et al	Brandon	——
946	Heine	Lee	26000
947	Walthall	Spence	1850
948	Katz	Katz	1800
949	Cuneo	Cuneo	4500
950	Ruegg	Ruegg	6500
951	Same	Same	6500
952	Same	Same	6500
953	Barah	MacDonald	20000
954	Phillips	Bessett	6148
955	Snow	Schroder	700
956	Kagami	Sullivan	550
437	Montrouil	Montrouil	2000
438	Altvater	Montrouil	2000
439	Samuelson	Olsen	1500
440	Roark	Higgins	1000
441	Gunsburger	Olsen	500
442	Same	Same	500
443	Bell	Henderson	1200
444	Shell Co.	Shell Co.	650
445	Waltermathee	Hiboni	400
446	Cal Fr Can	Pattinson	729
447	Pacific G & E.	West	8998
448	S P Co	City St. Imp	——
449	Gallagher	Helms	4835
450	Leon	Nolan	2600
451	Coleman	Coleman	4000
452	Mrown	Brown	2850
453	Mrown	Brown	2850
454	Props	Props	14000
455	Scoble	Scoble	8000
456	Scoble	Scoble	8000
457	Scoble	Scoble	10000
458	Scoble	Scoble	10000
459	Kneif	Knief	0030
460	Brack	Whitman	400
461	Rainier Brewing	Owner	500
462	Ford	Bowhay	400
463	Christiansen	Owner	4000
464	Trevett	Tessmer	1500
465	Schnier	Leigh	3000
466	Cipowsky	Grahn	2000
467	Steinbach	Grahn	1200
468	Steinbach	Grahn	1200
469	Yates	Yates	8000
470	Fry	Goldberg	2333

STRUCTURAL STEEL

(912) W MISSION 160 S 22nd — 125 S 40 E 125 N 40. Structural steel and reinforcing rods for a two-story and basement Class C store and loft building.
Owner.....Marion Leventritt, New York City.
Architect....G. Albert Lansburgh, 709 Mission, S. F.
Contractor..California Steel Co., 2nd and Harrison, Oakland.
Filed Feb. 19, '16. Dated Feb. 15, '16. On completion and acceptance.. 75%
Usual 35 days 25%
TOTAL COST, $5150
Bond, $2600. Sureties, Hartford Accident and Indemnity Co. Forfeit, $20. Bonus, $20. Limit, 25 days. Plans and specifications filed.

(913) EXCAVATION, CONCRETE, brick, carpenter, lath and plaster, roofing, iron, marble, glazing, hardware, plumbing, painting and electric work, etc on above.
Contractor..Ward & Goodwin, 110 Jessie, S. F.
Filed Feb. 19, '16. Dated Feb. 18, '16. Payments same as above.
TOTAL COST, $16,552
Bond, $8500. Sureties, Hartford Accident and Indemnity Co. Forfeit, $20. Bonus, $20. Limit, 52 days after steel and reinforcing rods in. Plans and specifications filed.

APARTMENTS

(914) SW UNION AND SCOTT, 52-6x 110. All work for a three-story and basement frame building (apartments.)
Owner.....Mrs. E. S. Tuttle Bray.
Architect....J. C. Hladik, Monadnock Bldg., S. F.
Contractor..Richard Sinnott & Chas. Alsop, 1323 Guerrero, S. F.
Filed Feb. 19, '16. Dated Feb. 17, '16.
First floor joists laid.....$1450
Frame up 1450
Brown coated 1450
Standing finish on 1450
Completed and accepted 1460
Usual 35 days 2420
TOTAL COST, $9680
Bond, $4840. Sureties, B. Melano and M. Kiernan. Forfeit, $10. Limit, 90 days. Plans and specifications filed.

FRAME DWELLING

(915) W TWENTY-NINTH AVE 195 S Lincoln Way. One and one-half-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2250

FRAME DWELLING

(916 E TWENTY-EIGHTH AVE 155 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2750

FRAME DWELLING

(917) W TWENTY-NINTH AVE 233 N Irving. One and one-half-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME DWELLING

(918) W TWENTY-NINTH AVE 68 N Irving. One and one-half-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME DWELLING

(919) N PARNASSUS AVE 36 E Hillway. Two-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING

(920) N PARNASSUS AVE 62 E Hillway. Two-story and basement frame dwelling.
Owner.....F. Nelson 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME APARTMENTS

(921) E ELGIN PARK 100 S McCoppin. Three-story and basement frame (6) apartments.
Owner.....Anna M. Lurmann, 2700 22nd, San Francisco.
Architect ...None.
Contractor..F. W. Lurmann, 1370 Washington, S. F.
COST, $7875

FRAME GARAGE

(922) S LINCOLN WAY 40 E Third Ave. One-story frame garage.
Owner.....Mrs. Lawson.
Architect ...Edward E. Young, 251 Kearny, San Francisco.
Day's work. COST, $500

FRAME OFFICE

(923) NO. 151 CHESTNUT. One-story frame office.
Owner.....Geo. W. Pennington Sons, Premises.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING

(924) E THIRTY-EIGHTH AVE 125 N Fulton. One-story and basement frame dwelling.
Owner.....Jeanette Yates, 335 21st Ave., San Francisco.
Architect ...None.
Contractor..W. F. Yates, 335 21st Ave., San Francisco.
COST, $2900

FRAME DWELLING

(925) SW OCEAN AVE 123 E Victoria (Ingleside Terrace). Two-story and basement frame dwelling.
Owner.....Urban Realty Improvement Co., 85 Cerritos Ave., S. F.
Architect ....Jos. A. Leonard, 85 Cerritos Ave., San Francisco.
Day's work. COST, $3500

FRAME FLATS
(926) SW ANZA AND ARGUELLO Blvd. Two-story and basement frame (4) flats.
Owner.....Thomas Rourke, 605 Arguello Blvd., S. F.
Architect ...None.
Day's work. COST, $4000

FRAME GARAGE
(927) NO. 2442 UNION. One-story frame garage.
Owner.....Buckingham Estate., Prem.
Architect ...None.
Contractor..Robinson & Gillespie, 1051 Sutter, San Francisco.
COST, $400

ALTERATIONS
(928) NO. 3937 ARMY. Alter front and add porch.
Owner.....Mr. Paulsen, Premises.
Architect ...None.
Day's work. COST, $400

FRAME RESIDENCE
(929) E ELEVENTH AVE 200 S Balboa. Two-story and basement frame residence.
Owner.....M. C. Rench, 1427 5th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3600

REPAIR FLATS
(930) W ALABAMA 50 S 26th. Underpin and repair flats.
Owner.....G. Peterson, 1402 Alabama, San Francisco.
Architect ...None.
Contractor..Sjorgren Bros., 3058 Army, San Francisco.
COST, $700

BILL BOARD
(931) SW PAGE AND FILLMORE. Bill board.
Owner.....Foster & Kleiser of California, 273 Valencia, S. F.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(932) NO. 602 FOURTH. Alter lunch room.
Owner.....August Smoljan, Premises.
Architect ...None.
Contractor..John Dadas, 1724 Chase, Oakland. COST, $600

ALTERATIONS
(933) NOS. 491-493 VALENCIA. Alter grill.
Owner.....Janich & Matkovich, Prem
Architect ...None.
Contractor..J. Kusich, 211 Birch, S. F.
COST, $750

ELECTRIC SIGN
(934) NO. 121 POWELL. Electric sign
Owner.....Marine Grotto, Premises.
Architect...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $450

ALTERATIONS
(935) N MARKET 32 E Jones. Close entrance and make new one.
Owner.....Prager Co., Inc., 1068 Market, San Francisco.
Architect ...None.
Architect ...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..J. Vail, 126 Alma, S. F.
COST, $800

WAREHOUSE
(936) SE BRYANT 265 NE Second SE 160xNE 126. All work except elevator, electric work and dumb waiter for four-story warehouse building.
Owner.....M. J. Cebrian.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Larson & Sampson, Crocker Bldg., San Francisco.
Filed Feb. 21, '16. Dated Feb. 11, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $72,750
Bond, none. Limit, Aug. 30, 1916. Forfeit, $30. Plans and specifications filed.

(937) ELECTRICAL WORK ON ABOVE
Contractor..Decker Elec. Co., 111 New Montgomery, S. F.
Filed Feb. 21, '16. Dated Feb. 11, '16.
Payments same as above.....
TOTAL COST $2295
Bond, none. Limit, Aug. 30, 1916. Forfeit, none. Plans and specifications filed

BRICK MACHINE SHOP
(938) SW FREMONT 137-6 SE Howard. All work for one and part two-story brick machine shop and office.
Owner.....Mrs. Ellen M. Otto.
Architect ...Herbert B. Maggs, 125 Alpine Terrace, S. F.
Contractor..E. K. Nelson, 109 Buchanan San Francisco.
Filed Feb. 21, '16. Dated Dec. 20, '15.
Footing and 17 inch foundation walls completed to 1st floor level.$1500
Brick walls are 12 feet above 1st floor level 1500
Iron and brick work completed. 1500
Roof on 1500
Rough plumbing in and 2nd floor laid and plaster completed.... 1500
Completed and accepted..... 1500
Usual 35 days..... 3000
TOTAL COST, $12,000
Bond, Guarantee bond in favor of owner. Sureties, Fred Walderman, D. Shorsell and E. R. Sten. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(939) N FULTON 57-4 E Parsons (Parkside Ave) and 352-4 E Willard E 29-1¾ N 4 deg 12 min 54 sec W 47-10⅛ N 1 deg 51 min 12 sec W 40-0⅜ S 100. All work for three-story and basement frame flats.
Owner.....Bernard McManus, 426 14th, San Francisco.
Architect ...Plans by contractor.
Contractor..Philip Rive, 814 Lake, S. F.
Filed Feb. 21, '16. Dated Feb. 18, '16.
Enclosed $2719
Brown coated 2719
Accepted 2719
Usual 35 days..... 2719
TOTAL COST, $10,876
Bond, $2719. Sureties, J. H. McCallum and E. O. Benner. Limit, 95 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(940) NO. 1539 CHURCH 24-6 N Duncan. Alterations and additions to building.
Owner.....F. Glom.
Architect ...None.
Contractor..A. Camilli.
Filed Feb. 21, '16. Dated Feb. 10, '16.
Roof on $590
Plaster completed 590
Usual 35 days..... 595
TOTAL COST, $1775
Bond, none. Limit, 90 days after Feb. 14. Forfeit, none. Specifications only filed.

FRAME FLATS
(941) SW LAKE AND FIFTEENTH Ave W 52-6xS 42. All work for two-story and basement frame flats.
Owner.....Mr. and Mrs. S. J. Rouda, 36 Powell, San Francisco.
Architect ...A. I. Rouda, 1225 Jones, San Francisco.
Contractor..W. L. Hemminga, Inc., 1600 Fell, San Francisco.
Filed Feb. 21, '16. Dated Feb. 17, '16.
Finish roof on.....$1750
Brown coated 1750
Completed and accepted..... 1750
Usual 35 days..... 1750
TOTAL COST, $7000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BRICK STORE
(942) S BUSH 59 E Van Ness Ave E 25xS 31. All work for one-story and basement brick store building.
Owner.....F. W. Noltemeier, 1208 Dolores, San Francisco.
Architect ...None.
Contractor..William Martin, 110 Jessle, San Francisco.
Filed Feb. 21, '16. Dated Feb. 18, '16.
Brick work to 1st floor line completed and floor joists in place and anchors set $687.50
Brick work completed, roof on and brown coat plaster finished 687.50
Completed and accepted..... 687.50
Usual 35 days..... 687.50
TOTAL COST, $2750.00
Bond, $1375. Surety, Guardian Casualty & Guaranty Co. Limit, 45 days from filing. Forfeit, none. Plans and specifications filed.

CLASS "C" STORE
(943) W COLE 100 S Carl S 75xW 100. All work for one-story Class "C" store building.
Owner.....Lange Investment Co., 199 Carl, San Francisco.
Architect ...Lewis M. Gardner, Phelan Bldg., San Francisco.
Contractor..Cameron & Disston, 831 Hearst Bldg., S. F.
Filed Feb 21, '16. Dated Feb. 18, '16.
Ceiling joists in place.....$2050
Brown coated 2050
Completed and accepted..... 2050
Usual 35 days..... 2050
TOTAL COST, $8200
Bond, $4100. Sureties, J. W. Cobby and L. D. Rainey. Limit, 60 days. Forfeit, none. Plans and specifications filed.

ELECTRICAL WIRING
(944) N SUTTER 137-6 W Mason. Electrical wiring for Woman's Athlectic Club building.
Owner.....C. T. Ryland, Sonoma, Cal.
Architect ...Bliss & Faville, Balboa Bldg., San Francisco.
Contractor..Central Electric Co., 618 Mission, San Francisco.
Filer Feb. 21, '16. Dated Feb. 12, '16.
Monthly installments of..... 75%
36 days after.....$435.75
TOTAL COST $1743.00
Bond, $871.50. Surety, Pacific Coast Casualty Co. Limit, Sept. 1, 1916. Forfeit, none. Plans and specifications filed.

BRICK WORK, ETC.
(945) S BRANNAN 137-6 E Fourth E 275xS 275. Brick work and under-

pinning of westerly wall of two-story brick warehouse.
Owner.....Elsa Metzger Davis, Vera Metzger Davis and Albert Lachman, Gdn. Estate Samuel Metzger, a minor.
Architect ...Washington J. Miller, 45 Kearny, San Francisco.
Contractor..Brandon & Lawson, Hearst Bldg., San Francisco.
Filed Feb. 21, '16. Dated Feb. 18, '16.
Completed and accepted..... 75%
36 days after.....Balance
TOTAL COST, $22 per M brick installed.
Bond, not to exceed $700. Surety, The Aetna Accident & Liability Co. Limit, April 1, 1916. Forfeit, $100. Plans and specifications filed.

CLASS "C" APARTMENTS
(946) W JONES 77-6 S Bush. Four-story and basement Class "C" (15) apartments.
Owner.....F. F. Heine, 1180 Stanyan, San Francisco.
Architect ...None.
Contractor..Louis H. Lee, 135 Cole, S. F.
COST, $26,000

FRAME DWELLING
(947) W TWENTY-FOURTH AVE 125 N Anza. One-story and basement frame dwelling.
Owner.....W. H. Walthall, 537 25th Ave., San Francisco.
Architect ...E. J. Spence, 537 25th Ave., San Francisco.
Contractor..Spence & Walthall, 537 25th Ave., San Francisco.
COST, $1850

FRAME STORE
(948) N HAYES 100 W Gough. One-story and basement frame store.
Owner.....Chas. Katz, 1200 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME FLATS
(949) S NINETEENTH 58 E Lexington Two-story and basement frame (2) flats.
Owner.....Joseph Cuneo, 152 Tiffany Ave., San Francisco.
Architect ...None.
Day's work. COST, $4500

FRAME FLATS
(950) W TWENTY-FIFTH AVE 173 S Lake. Two-story and basement frame (4) flats.
Owner.....Leo J. Ruegg, 719 Pacific Bldg., San Francisco.
Architect ...None.
Day's work. COST, $6500

FRAME FLATS
(951) W TWENTY-FIFTH AVE 199 S Lake. Two-story and basement frame (4) flats.
Owner.....Leo J. Ruegg, 719 Pacific Bldg., San Francisco.
Architect ...None.
Day's work. COST, $6500

FRAME FLATS
(952) W SECOND AVE 125 S Geary. Two-story and basement frame (4) flats.
Owner.....Leo J. Ruegg, 719 Pacific Bldg., San Francisco.
Architect ...None.
Day's work. COST, $6500

CLASS "C" STORE & HOTEL
Fourth. All work for pavement to
(953) N ELLIS 171-10½ E Larkin. Three-story and basement Class "C" store and hotel.
Owner.....Moses Barah.
Architect ...Ed. Musson Sharpe, 907 Rialto Bldg., S. F.
Contractor..MacDonald & Kahn, Rialto Bldg., San Francisco.
COST, $20,000

FRAME FLATS, ETC.
(954) W TREAT 125 N 25th. All work for erection of two-story frame flats and removal of cottage to rear of lot.
Owner.....Walter Phillips, Premises.
Architect ...None.
Contractor..C. H. Bessett, 343 29th, San Francisco.
Filed Feb. 23, '16. Dated Jan. 29, '16.
Payments as work progresses.. 75%
Usual 35 days..... 25%
Erection of flats.....$5450
Removal of cottage..... 698
TOTAL COST, $6148
Bond, $1000. Surety, Massachusetts Bonding & Insurance Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.
NOTE:—1st report Feb. 19th. No. 903.

BUILDING
(955) S FEDERAL 80 E Second. Concrete, lumber, mill, labor, hardware, tar and gravel roof and glass for one-story building.
Owner.....Snow & Galgiani, 537 2nd, San Francisco.
Architect ...None.
Contractor..Schroder Bros., 765 Folsom, San Francisco.
Filed Feb. 23, '16. Dated Feb. 21, '16.
Roof rafters in place.....$350
Accepted 350
TOTAL COST, $700
Bond, none. Limit, 30 days. Forfeit, none. Plans and specifications filed.

CRIBBING, ETC.
(956) S BUSH 139-6 E Franklin E 25x S 120. Cribbing, bracing, restraining and supporting devices, etc., on westerly bdy. line of Overland Stores Co.
Owner.....S. Kagami, N. Y. Amano and M. Ashihara.
Architect ...None.
Contractor..D. J. & T. Sullivan, 1940 Folsom, San Francisco.
Filed Feb. 23, '16. Dated Feb. 19, '16.
Cribbing, bracing, backfilling, etc., in place 50%
Completed and accepted..... 25%
Usual 35 days.....Balance
TOTAL COST, $550
Bond, none. Limit, — days from Feb. 19, 1916. Forfeit, plans and specifications, none.

FRAME DWELLING
(437) W YORK 250 S 26th. One and one-half-story and basement frame dwelling.
Owner.....P. W. Montrouil, 270 Andover, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME DWELLING
(438) W YORK 275 S 26th. One and one-half-story and basement frame dwelling.
Owner.....W. F. Altvater, 2563 Mission, San Francisco.
Architect ...None.
Contractor..P. W. Montrouil, 270 Andover, San Francisco.
COST, $2000

FRAME DWELLING
(439) S BRUNSWICK 50 E Curtis. One and one-half-story and basement frame dwelling.
Owner.....A. M. Samuelson, 3732 21st, San Francisco.
Architect ...None.
Contractor..H. C Olson, 348 Holloway San Francisco.
COST, $1500

ALTERATIONS
(440) NO. 162 BEACON. Raise and alter dwelling.
Owner.....Mrs. C. M. Roark, Premises.
Architect ...None.
Contractor..J. M. Higgins, 328 Hoffman Ave., San Francisco.
COST, $1000

REPAIRS
(441) NO. 410 GATES. Repair cottage
Owner.....Dr. Grunsburger, 1933 Ellis, San Francisco.
Architect ...None.
Contractor..Olaf Olsen, 262 Beverly, San Francisco.
COST, $500

REPAIRS
(442) NO. 406 ANDOVER. Repair cottage for flats.
Owner.....Dr. Gunsburger, 1933 Ellis, San Francisco.
Architect ...None.
Contractor..Olaf Olsen, 262 Beverly, San Francisco.
COST, $500

REPAIRS
(443) SW ELLIS AND VAN NESS Ave. Repair fire damage.
Owner.....Terressa Bell, 420 Phelan Bldg., San Francisco.
Architect ...None.
Contractor..J. H. Henderson, 908 O'Farrell, San Francisco.
COST, $1200

STEEL STATION
(444) — ARMY AND THIRD. One-story steel station.
Owner.....Shell Co. of California, 343 Sansome, San Francisco.
Architect ...None.
Day's work. COST, $650

CONCRETE WALL
(445) NO. 561 SANCHEZ. Concrete wall.
Owner.....H. Waltermathee, Prem.
Architect ...None.
Contractor..Henry Hiboni, 221 Dolores, San Francisco.
COST, $400

ALTERATIONS AND ADDITIONS
(446) NE FRANCISCO AND TAYLOR. All work except laying mastic floors and patent roofing material for alterations and additions to building.
Owner.....California Fruit Canners' Association, 120 Market, San Francisco.
Architect ...P. L. Bush, 120 Market, San Francisco.
Contractor..Jos. Pattinson.
Filed Feb. 24, '16. Dated Feb. 16, '16.
Frame work completed.....$200
Completed and accepted..... 345
36 days after..... 184
TOTAL COST, $729
Bond, none. Limit, 30 days after Feb. 21. Forfeit, none. Plans and specifications filed.

(447) S SUTTER 115-9 E Powell S 137-6xE 45-6. All work for new steel vault furnishings for eight-story Class "A" building.

Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect...Edgar A. Mathews, 251 Post, San Francisco.
Contractor..M. G. West Co., Inc., 353 Market, San Francisco.
Filed Feb. 24, '16. Dated Feb. 16, '16.
On delivery of new steel vault furnishings, 50% of contract.....
On completion, 25% of contract...
Usual 35 days,25% of contract.....
TOTAL COST, $8998
Bond, $4500. Surety, Royal Indemnity Co. Limit, 75 days. Forfeit, none. Plans and specifications filed.

PAVEMENT
(448) TOWNSEND, bet. Third and consist of new basalt blocks on sand foundation with asphalt filler area of pavement 7200 sq. feet.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect...None.
Contractor..City Street Improvement Co., 166 Geary, S. F.
Filed Feb. 24, '16. Dated Feb. 11, '16.
Payments not given.....
TOTAL COST, 31c per sq. ft.
Bond, $1000. Surety, U. S. Fidelity & Guaranty Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(449) W SEVENTEENTH AVE 246-1 S California. All work except finish hardware, window shades, electric fixtures and wall paper for two-story frame (2) flats.
Owner.....John T. and Myrtle M. Gallagher.
Architect...None.
Contractor..E. F. Helms, California nr 5th Ave., San Francisco.
Filed Feb. 24, '16. Dated Feb. 24, '16.
Rough frame up.....$1235
Brown coated 1200
Primed and standing trim on... 1200
Usual 35 days..... 1200
TOTAL COST, $4835
Bond, $2417.50. Sureties, W. Williamson and Joseph De Ryana. Limit, forfeit, none. Plans and specifications filed

FRAME STORE
(450) SW NINETEENTH AVE AND California S 25xW 70. All work for one-story frame store building.
Owner.....Sofie Leon, Care Kerner & Eisert, 107 Montgomery, San Francisco.
Designers...Russell Monson & Alfred A. Pyle, 20 Ferry Bldg., San Francisco.
Contractor..Martin Nolan, 227 Noe, San Francisco.
Filed Feb. 24, '16. Dated Feb. 23, '16.
Completed and accepted.....$2600
TOTAL COST, $2600
Bond, none. Limit, 30 days from filing. Forfeit, $5. Plans and specifications filed.

FRAME FLATS AND STORE
(451) S GEARY 132-6 E 19th Ave. Two-story and basement frame (2) flats and store.
Owner.....E. Coleman, 5516 Geary, San Francisco.
Architect...None.
Day's work. COST, $4000

FRAME RESIDENCE
(452) E FIFTEENTH AVE 250 N Fulton. Two-story and basement frame residence.
Owner.....Lillie E. Brown, 1434 6th Ave., San Francisco.
Architect...Theo. W. Lenzen, 709 Humboldt Bank Bldg., S. F.
Contractor..S. E. Brown, 1434 6th Ave., San Francisco.
COST, $2850

FRAME DWELLING
(453) E FIFTEENTH AVE 275 N Fulton. Two-story and basement frame dwelling.
Owner.....Lillie E. Brown, 1434 6th Ave., San Francisco.
Architect...Theo. W. Lenzen, Humboldt Bank Bldg., S. F.
Contractor..S. E. Brown, 1434 6th Ave., San Francisco.
COST, $2850

FRAME APARTMENTS
(454) SW JACKSON AND LEAVENworth. Three-story and basement frame (15) apartments.
Owner.....Walker R. Props, 1301 Gough, San Francisco.
Architect...None.
Day's work. COST, $14,000

FRAME RESIDENCE
(455) E PALM AVE 130 N Geary. Two story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST $8000

FRAME RESIDENCE
(456) E PALM AVE 160 N Geary. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST $8000

FRAME FLATS
(457) W PALM AVE 33-4 N Euclid Ave. Two-story and basement frame (2) flats.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $10,000

FRAME FLATS
(458) E PALM AVE 33-4 N Euclid Ave. Two-story and basement frame (2) flats.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $10,000

FRAME DWELLING
(459) E CUMBERLAND 250 S Dolores. One and one-half-story and basement frame dwelling.
Owner.....Henry Kneif, 812-A Hampshire, San Francisco.
Architect...None.
Day's work. COST, $3000

ALTERATIONS
(460) NO. 5041 CALIFORNIA. Alter flats.
Owner.....Mrs. Brack, 5043 California, San Francisco.
Architect...None.
Contractor..A. Whitman, 2321 Anza, San Francisco.
COST, $400

ADDITION
(461) NO. 1550 BRYANT. Add garage.
Owner.....Rainier Brewing Co., 1550 Bryant, San Francisco.
Architect...None.
Day's work. COST, $500

ALTERATIONS
(462) NO. 40 TWENTY-SECOND AVE. Alter flats.
Owner.....Carrie M. Ford, 43 22nd Ae., San Francisco.
Architect...E. T. Bosworth, 753 Bush, San Francisco.
Contractor..A. L. Bowhay, 40 22nd Ave. San Francisco.
COST, $400

FRAME FLATS
(463) E TWELFTH AVE 225 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....H. S. Christiansen, 685 3rd Ave., San Francisco.
Architect...Koenig & Christiansen, 314 Humboldt Bank Bldg., S. F
Contractor..H. C. Christiansen, 685 3rd Ave., San Francisco.
COST, $4000

FRAME DWELLING
(464) W GIRARD 50 S Bacon. One-story and basement frame dwelling.
Owner.....Edward L. Trevett, Prem.
Architect'..None.
Contractor..H. Tessmer, 1121 Key Ave., San Francisco.
COST, $1500

FRAME MARKET
(465) S CLEMENT 57½ E 24th Ave. One-story frame market.
Owner.....B. Schnier, 718 Hayes, S. F.
Architect...None.
Contractor..Leigh & Schultz, 419 21st Ave., San Francisco.
COST, $3000

FRAME DWELLING
(466) E CAPP 169 S 24th. One-story and basement frame dwelling.
Owner.....C. Cipowsky, 809 Capp, San Francisco.
Architect...None.
Contractor..W. H. Grahn, 2840 Bryant, San Francisco.
COST, $2000

FRAME DWELLING
(467) S THORNTON 75 E Lucy. One-story and basement frame dwelling.
Owner.....H. Steinbach, 350 Mills Bldg., San Francisco.
Architect...None.
Contractor..W. H. Grahn, 2840 Bryant, San Francisco.
COST, $1200

FRAME DWELLING
(468) E LUCY 100 S Thornton. One-story and basement frame dwelling.
Owner.....H. Steinbach, 350 Mills Bldg., San Francisco.
Architect...None.
Contractor..W. H. Grahn, 2840 Bryant, San Francisco.
COST, $1200

FRAME DWELLINGGS
(469) E COLLINS 321-8 N Geary N 50 xE 120. All work for two two-story frame dwellings.
Owner.....Jeanette Yates, 335 21st Ave., San Francisco.
Architect...None.
Contractor..Wm. F. Yates, 335 21st, San Francisco.
Filed Feb. 25, '16. Dated Feb. 21, '16.
Frame up and roof on.....$2000

Plastered 2000
Completed 2000
Usual 35 days..... 2000
TOTAL COST, $8000
ond, none. Limit, 90 days after Feb. . Forfeit, none. Plans and specifica-ons filed.

AINTING, ETC.

70) NE BUSH AND POLK. Paint-ing, tinting, paper hanging and other work for St. Dunstan Apartments.
wner.....Estate of Sarah Fry.
rchitect ...W. H. Crim, Jr., 425 Kearny, San Francisco.
ontractor..S. Goldberg.
iled Feb. 25, '16. Dated Feb. 24, '16.
Payments of 75%
Usual 35 days..... 25%
TOTAL COST, $2333
ond, $1167. Surety, U. S. Fidelity & uaranty Co. Limit, 30 days from re-ordng. Forfeit, $10. Plans and speci-cations filed.

LEASES.

eb. 23, 1916—NOS. 2632-36 MISSION. Marion Leventritt to F W Woolworth Co. 2 years. $8000.
eb. 25, 1916—NW VALENCIA AND 22nd N 50xW 82-6. Max Rothchild to Louis Whiteman, A E Greene and D O Becker. 11 years 10 months. $35,500.
eb. 24, 1916—NOS. 759-761 BROAD-way, S line bet. Powell and Stockton. Josephine Dastugue to Jos Gam-brazzi. 24 months. $2760.
eb. 24, 1916—NO. 1854 CASTRO; NW Jersey and Castro N 33-10½xW 80. W H Flynn to Emil and Bertha Keup 5 years. $1500.

NOTICE OF NON-RESPONSIBILITY.

eb. 24, 1916—NOS. 47 AND 49 SIXTH NE 6th, bet. Market and Jessie. The S W Dick Co, Cpn as to im-provements on leased property...

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED

Feb. 19, 1916—E TWENTY-FIFTH Ave 125 N California, 50x120. Lloyd B. Ham to whom it may concern.. .....Feb. 18, 1916
Feb. 19, 1916—SE DOLORES and 30th 30x88. Edw. P. and Mary Sullivan to Einar Petersen.....Feb. 18, 1916
Feb. 19, 1916—E STEINER 76 N Greenwich 34x77. L. Legnitto to J. Marinelli and H. Liebert.Feb. 18, 1916
Feb. 19, 1916—SE SAN JOSE AVE 238.716 SW Santa Ynez SW 72.606. by 95. Henry Steinbach to whom it may concern.....Jan 14, 1916
Feb. 21, 1916—E NINETEENTH AVE 75 N Cabrillo N 25xE 81. A Hope Johnston to whom it may concern .....Feb. 17, 1916
Feb. 21, 1916—SE WASHINGTON & Drumm S 115xE 137-6. Sarah Jane de la Montanya to George Richley .....Feb. 19, 1916
Feb. 21, 1916—LOTS 4 AND 5 BLK 8 Excel Hd Ass'n. J W Wright & Sons Invst Co to Baker Bros & Hillman.....Feb. 21, 1916
Feb. 21, 1916—W HOWARD 75 S 14th 25 on Howard by 90. San Mateo County Dairy to Segurson Bros... .....Feb. 19, 1916
Feb. 21, 1916—E POWELL 82.6 S Union S 55xE 137.6. Rose F De-benedetti, Regina A, Mary L and Irene R Cuneo to Trevia & Pas-qualetti .....Feb. 12, 1916
Feb. 21, 1916—E ASHTON AVE 25 S Holloway Ave. W J Slattery to Wm H Grahn.....Feb. 19, 1916
Feb. 21, 1916—W FIFTEENTH AVE 195 N Quintara N 31xW 127-6. E H Nuhrenberg to R H McKenzie & Co .....Feb. 15, 1916
Feb. 21, 1916—W NINTH AVE 125 N Anza N 25xW 120. Celia and Louis H Lee to Louis H Lee...Feb 15, 1916
Feb. 21, 1916—SW HOWARD AND 25th S 65xW 115. John M and Frank J Ratto to Chas Coburn..... .....Feb. 21, 1916
Feb. 21, 1916—E NINETEENTH AVE 125 N Cabrillo N 25x110. W H Sale to whom it may concern.Feb. 17, 1916
Feb. 21, 1916—N UNION 112-6 E Steiner E 25xN 137-6. M F Martinho to R De Luca.....Jan. 28, 1916
Feb. 23, 1916—S PACIFIC 102-6 W Buchanan W 35xS 127-8¼. Mrs L G Auzerais to Frank A Wilkie..... .....Feb. 14, 1916
Feb. 23, 1916—LOTS 12, 14, 16, 18 Ducas Sub Ptn Lots 3 and 11 and 12 Blk 26 West End Map No. 1. C S Allred to whom it may concern... .....Feb. 23, 1916
Feb. 23, 1916—W GRANT AVE 113 S Union — 65 to Bannan Pl — 24-6 E 65 N 24-6. **Thresa** Bacigalupi to Del Favero and Fordon..Feb. 23, 1916
Feb. 23, 1916—E POWELL 68-9 N Vallejo 29-9x68-9. C F Diapola to V Filippis.....Feb. 23, 1916
Feb. 23, 1916—N GROVE 82-6 E Oc-tavia. William M Meyer and Mary E Carrell to George D Gilmour..... .....Feb. 19, 1916
Feb. 24, 1916—N CALIFORNIA 112 W **California** W along N Larkin 25 N 87 E 25 S 87. A Birrer to whom it may concern.....Feb. 21, 1916
Feb. 24, 1916—SW FILLMORE AND Sacramento W 80xS 40. Geo B Bur-ton to H W Arnold.....Feb. 23, 1916
Feb. 24, 1916—N UNION 65 W Leav-enworth 48-6x137-6. S Foppiano to Farnocchio-Petre & Co..Feb. 21, 1916
Feb. 23, 1916—W NINETEENTH AVE 175 N Balboa N 50xW 120. Thomas Hamill to whom it may concern... .....Feb. 19, 1916
Feb. 25, 1916—W CHURCH 64 N 20th N 25xW 100. Rosa Unfried to whom it may concern.....Feb. 23, 1916
Feb. 25, 1916—E ELEVENTH AVE 275 S Geary S 25xE 120. Ecklin Williams to William McIntosh..... .....Feb. 18, 1916
Feb. 25, 1916—W TWELFTH AVE 25 S Cabrillo S 25xW 92-6. Al-phonzo Harrington to whom it may concern.....Feb. 24, 1916
Feb. 25, 1916—SW CALIFORNIA AND Mason W 77-6xS 60. S W Mors-head to General Elec Constr Co... .....Feb. 16, 1916
Feb. 25, 1916—NE OAKDALE AVE (15th Ave South) 225 SE Mendell (M South) SE 75xNE 100. Marla Theresa Bludworth to T L Sharman .....Feb. 23, 1916
Feb. 25, 1916—S PACIFIC 189 W Taylor W 25xS 60. W A Goericke to whom it may concern.Feb. 21, 1916
Feb. 25, 1916—S PACIFIC 165 W Tay-lor W 25xS 60. W A Goericke to whom it may concern..Feb. 21, 1916
Feb. 25, 1916—S PACIFIC 231-6 W Taylor W 25xS 60. W A Goericke to whom it may concern.Feb. 21, 1916

LIENS FILED

San Francisco

Feb. 19, 1916—E TWELFTH AVE 25 S Balboa S 25xE 95. Incandescent Supply Co. vs. Katherine Small, de-ceased, Gladys C. Small, adminis-tratrix Est Katherine Small and Robert McClelland $90
Feb. 19, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Spencer Street Planing Mill vs. Ratto & Ratto and P. M. McHugh....$1244.30
Feb. 19, 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. Isaac Friedman, Samuel and Abraham Friedman as Friedman Bros. vs. Edward and Margaret Perry and L. R. Holm $95
Feb. 19, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. William Heidenreich vs. Patrick M. Mc-Hugh and Ratto & Ratto.....$100
Feb. 21, 1916—N EIGHTEENTH 95 E Valencia N 80xE 25. Malott & Peterson vs Ratto & Ratto, Shea & Lofquist and P M McHugh.....$89
Feb. 21, 1916—W MISSION 190-9 N 25th N 25xW 117-6. Tiernan & Ber-onio vs Ratto & Ratto and Annie M Schulz $1004.49
Feb. 21, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Joost Bros vs Patrick M McHugh and Ratto & Ratto $142.90
Feb. 23, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Marshall & Stearns Co vs P M McHugh and Ratto & Ratto.....$222
Feb. 23, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Thomas and Jas McKee, $56; Mission Concrete & Mosaic Co, $448.01; Friedman Bros, $168 vs Ratto & Ratto and P M Mc-Hugh .....
Feb. 23, 1916—E TWELFTH AVE 25 S Balboa S 25xE 95. Hardwood In-terior Co vs Robert and J S Mc-Leliand and C Davis and Katherine Small, decd, Gladys C Small, Admx Est Katherine Small, decd.....$187
Feb. 23, 1916—W MISSION 190-9 N 25th N 25xW 117-6. Thos and James McKee vs Ratto & Ratto and Annie M Schultz $70
Feb. 17, 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. Samuel Greenback vs Edward and Marga-ret Perry and Louis R Holm.....$425
Feb. 24 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. Leonard Lumber Co vs Edward and Marga-ret Perry and Louis R Holm.$1246.59
Feb. 24, 1916—SW TWELFTH AVE and Moraga S 100xW 37-6. W S James vs J W Mullen, J E Argus and Jane Doe Argus.....$65
Feb. 24, 1916—E EIGHTEENTH 95 E Valencia N 80xE 25. Acme Tile Co vs P M McHugh.....$22.50
Feb. 24, 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. Rege Bros vs Edward and Margt Perry and Louis R Holm.....$35
Feb. 24, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. John King & Son vs P M McHugh.....$135
Feb. 24, 1916—N EIGHTEENTH 95 E Valencia N 80xE 25. E A Mantell vs P M McHugh.....$215
Feb. 24, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. Uhl Bros vs P M McHugh..... .....$35.85
Feb. 25, 1916—SE MADRID AND S Silva Ave SW 64-4⅞ SE 50 NE 98-11½ m or l W 60-9¼ Ptn Lot 1 Blk 33, Excl Hd Ass'n. Henry J

Olsen vs Peter N Williams and Bay City Bldg & Loan Association $500

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 18, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. Michel & Pfeffer, E. V. Lacey, Thos. and Jas. McKee, M. Bertolino, Eureka Sash, Door and Moulding Mill to A. Gianini & Son and Katherine Black .....

Feb. 18, 1916—N OAK 157-6 W Van Ness Ave W 89-9, N 120, E 68-9—40, E 21, S 80. United Materials Co. to The Young Men's Institute Hall Association and Fennell & Wand .....

Feb 21, 1916—E BRYANT 143 N 21st N 25xE 100. C Trifiletti to Ray J Ritchie .....

Feb. 23, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. F G Norman & Sons, Leonard Lumber Co to O Giannini & Son & Katherine Black

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
324	MacGregor	MacGregor	2250
325	Norris	Norris	2400
326	Sabatti	Williams	2500
327	Banning	Stewart	2500
328	Banning	Stewart	2500
329	Dourning	Whitney	2500
330	Anderson	Anderson	1500
331	Fabing	Fabing	3000
332	I. O. O. F.	Boehrer	1600
333	Pac. Gas & Elect.	Hopper	1155
339	Hanjer	Mohler	1600
340	Hinch	Lundberg	2500
341	Woodhurn	Woodburn	2500
342	Bartlett	Surryhne	400
343	Schmidt	HPeppin	1700
344	Schlichting	Schnebly	4724
345	Nichols	Nichols	1900
346	Kellogg	Anstey	400
355	McElveen	White	1500
356	Button	Button	3000
357	Delaney	Rose	1500
358	Hammarberg	Owner	2200
359	Makinson	Stubbe	4000
360	Anderson	Stewart	3000
361	Taylor	Taylor	2500
362	Same	Same	2500
369	Gonzales	Thomas	551
370	Tarricone	Hunter	500
371	Friedberg	Friedberg	400
372	Oliver	Stone	400
373	Oliver	Stone	600
379	Curran	Griffin	400
380	Saremento	Santos	3500
381	Razaria	Souza	500
382	De Swint	Butzback	1930
383	Rutherford	Gruener	10000
384	Siegrest	Siegrest	2000
385	Ingerson	Ingerson	500
387	Bertheand	Bertheand	1500
388	Wadsworth	Wadsworth	1000
389	Wheeland	Wheeland	3000
392	Crichton	Hopper	3465
394	Norman	Warner	700
395	Pacific G & E Co.	Hooper	2700
396	Barnet	Barton	400
397	O'Connor	Elrod	5000

(Correction on Owner's Name)

FRAME DWELLING

(258) LOT 49 Crocker Oaks, Oakland. All work for two-story and basement frame dwelling.
Owner.....Martha Ames, 1308 Adeline, Oakland.
Architect...Henry H. Gutterson, 80 Post, San Francisco.
Contractor..Anderson & Larson.
Filed Feb. 14, '16. Dated Feb. 10, '16.
1st floor joists in place..... 1-5
Frame up 1-5
Interior plastered 1-5
Completed and accepted..... 1-5
Usual 35 days..... 1-5
TOTAL COST, $11,029
Bond, none. Limit, 125 days. Forfeit, $3. Plans and specifications filed.

(259) HEATING ON ABOVE.
Engineer ...Leland & Haley, Holbrook Bldg., San Francisco.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 14, '16. Dated Feb. 11, '16.
1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1090
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

DWELLING

(324) NW E THIRTY-EIGHTH and Woodruff avenue, Oakland. One-story, 5-room dwelling.
Owner.....C. M. MacGregor, 470 13th street, Oakland.
Architect....None.
Day's work. COST, $2250

DWELLING

(325) E COLLEGE AVE 25 S Bryant avenue, Oakland. One-story, six-room dwelling.
Owner.....Justus Norris, 2828 Richmond, Oakland.
Architect....None.
Day's work. COST, $2400

ADDITION

(326) NO. 879 FIFTY-EIGHTH ST., Oakland. One-story add to creamery.
Owner.....John A. Sabatti, Premises.
Architect....None.
Contractor..J. W. Williams, 165 Joaquin avenue, San Leandro.
COST, $2500

DWELLING

(327) N PROSPECE DRIVE 200 E Broadway, Oakland. One-story, six-room dwelling.
Owner.....Banning & Stewart, 5215 Broadway, Oakland.
Architect....None.
Day's work. COST, $2500

(328) N PROSPECT DRIVE, 235 E Broadway, Oakland. One-story, six-room dwelling.
Owner.....Banning & Stewart, 5215 Broadway, Oakland.
Architect....None.
Day's work. COST, $2500

(329) E SEVENTH AVE 110 S E-24th street, Oakland. One-story, 5-room dwelling.
Owner.....W. H. Downing, 319 First National Bank Bldg., Oakland.
Architect....None.
Contractor..H. A. Whitney, 319 First National Bank Bldg., Oakland.
COST, $2500

DWELLING

(330) E PATTERSON 100 S Kansas Oakland. One-story, five-room dwlg
Owner.....Andrew Anderson, 922 41st street, Oakland.
Architect....None.
Day's work. COST, $150

DWELLING

(331) S E-THIRTY-FOURTH ST., 14 E Park Blvd., Oakland. Two-story six-room dwelling.
Owner.....F. N. Fabing, 3515 13th avenue, Oakland.
Architect....None.
Day's work. COST, $300

ALTERATIONS

(332) NW ELEVENTH and Franklin Oakland. Alterations to ball room ante room, Rebekahs room and built in furniture to four-story brick and steel lodge building.
Owner.....Odd Fellows' Hall Association, Premises.
Architect....J. Henry Boehrer.
Contractor..J. Henry Boehrer and Alfred Legault, Delger Bldg Oakland.
Filed Feb. 19, '16. Dated Feb. 18, '1
Framing and plastering done...$40
Completed 80
Usual 35 days 40
TOTAL COST, $160
Bond, Sureties, none. Forfeit, $
Limit, 25 days. Plans and specifications filed.

SHEDS

(333) W CASTRO ST if extended S, 8 S 1st street W 456.03xS 300. A work for nine sheds except galvanized iron to be furnished by owne
Owner.....Pacific Gas and Electric Co., 13th and Clay, Oakland.
Architect....None.
Contractor..M. E. Hopper & Sons, 9 Glen Ave., Oakland.
Filed Feb. 19, '16. Dated Feb. 18, '1
Completed and accepted 75
Usual 35 days 25
TOTAL COST, $115
Bond, $600. Sureties, U. S. Fidelity and Guaranty Co. Forfeit, none. Limit, 4 days. Plans and specifications filed.

DWELLING

(339) NW RUDSDALE AND 82ND AV Oakland. One-story 5-room dwlg.
Owner.....H. E. Hanjer, 347 Clemen San Francisco.
Architect...None.
Contractor..T. E. Mohler, 255 8th Ave San Francisco.
COST, $160

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods, Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our new stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francirco**

DWELLING
(340) N E-TWENTY-FIRST 220 W 19th Ave., Oakland. One-story 5-room dwelling.
Owner.....E. M. Hinch, 1540 Broadway, Oakland.
Architect ...None.
Contractor..E. Lundberg, 595 17th, Okd
COST, $2500

DWELLING
(341) E EVERETT AVE 160 S Vista, Oakland. One and one-half-story 6-room dwelling.
Owner.....Paul C. Woodburn, 3965 Greenwood Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

REPAIRS
(342) NE SEVENTH AND PINE. Oakland. Roof repairs.
Owner.....D. Bartlett, Plaza Bldg., Oakland.
Architect ...None.
Contractor..G. J. Surryhne, 431 15th, Oakland. COST, $400

DWELLING
(343) S LAVERNE 35 E 35th Ave., Oakland. One-story 6-room dwlg.
Owner.....R. Schmidt, Oakland.
Architect ...None.
Contractor..J. B. Peppin, San Leandro.
COST, $1700

FRAME STABLE
(344) PTN 60 W NW COR FIFTY-fifth and Grove N 95 W 20 N 40 W 40 S 135 E 60, Oakland All work except plumbing and sewering for one-story frame stable, granary and office.
Owner.....H. C. Schlichting, 873 Aileen, Oakland
Architect ...None.
Contractor..Schnehly, Hostrawser & Pedgrift, 6th & Jackson, Oakland.
Filed Feb. 21, '16. Dated Feb. 19, '16.
Frame up $1175
Enclosed and roof completed.... 1175
Completed and accepted..... 1175
Usual 35 days..... 1199
TOTAL COST, $4724
Bond, $2500. Sureties, J. E. MacCormac and William Makin. Limit, 30 days after Feb. 23. Forfeit, $3. Plans and specifications filed

DWELLING
(345) W MAGEE AVE 235 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....Estelle H. Nichols, 2342 14th Ave., Oakland.
Architect ...None.
Contractor..Leo L. Nichols, 2342 14th Ave., Oakland.
COST, $1900

ADDITION
(346) NO. 897 FIFTY-SECOND, Oakland. Addition.
Owner.....Mr. Kellogg, Premises.
Architect ...None.
Contractor..T. J. Anstey, 632 62rd, Okd.
COST, $400

DWELLING
(355) E MAPLE AVE 50 S Maine, Oakland. One-story 5-room dwelling.
Owner.....Mrs. E. McElveen.
Architect ...None.
Contractor..J. White, 32 8th, Oakland.
COST, $1500

DWELLING
(356) W ARBOR 150 N Hudson, Oakland. Two-story 6-room dwelling.
Owner.....I. W. Button, 347 63rd, Okd.
Architect ...None.
Day's work. COST, $3000

DWELLING
(357) W FOURTH AVE 125 N E-7th, Oakland. One-story 4-room dwelling
Owner.....Mrs. Jessie Delaney, 806 14th, Oakland.
Architect ...None,
Contractor..A. H. Rose & Co., 545 17th, Oakland. COST, $1500

DWELLING
(358) W SANTA CLARA AVE 450 S Chetwood, Oakland. One-story six-room dwelling.
Owner.....A. Hammarberg, 2758 Piedmont Ave., Oakland.
Architect ...None.
Day's work. COST, $2200

DWELLING
(359) SW DESMOND AND CORONDA Ave., Oakland. Two-story 9-room dwelling.
Owner.....Dr. Frank R. Makinson, Providence Hospital, Okd.
Architect ...None.
Contractor..R. E. Stubbe, 1408 Grand Ave., Oakland.
COST, $4000

DWELLING
(360) E HADDON ROAD 150 N Excelsior, Oakland. One-story 6-room dwelling.
Owner.....Mrs. S. Anderson, East Oakland.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $3000

DWELLING
(361) SW THIRTY-EIGHTH AND Manila Ave., Oakland. One-story 5-room dwelling.
Owner.....G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $2500

DWELLING
(362) E ELSTON AVE 300 S Hampel, Oakland. One-story 5-room dwelling.
Owner.....G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $2500

ADDITION
(369) NO. 2785 E-EIGHTH, Oakland. Addition.
Owner.....Filurena Gonzales, Prem.
Architect ...None.
Contractor..Manuel Thomas, 1072 Cotton, Oakland.
COST, $554

DWELLING
(370) E HALES 150 S Carey, Oakland. One-story 3-room dwelling.
Owner.....E. Tarriccao, 4908 Broadway, Oakland.
Architect ...None.
Contractor..A. W. Hunter, 871 53rd, Oakland.
COST, $500

ADDITION
(371) NO. 525 FORTY-FOURTH, Oakland. Addition.
Owner.....E. Friedberg, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(372) NO. 251 VERNON, Oakland. Alterations.
Owner .....W. Letts Oliver, 251 Vernon, Oakland.
Architect ...None.
Contractor..E. P. Stone, 1212 Carrison, Berkeley.
COST, $400

ALTERATIONS
(373) NO. 268 VERNON, Oakland. Alterations.
Owner.....W. Letts Oliver, 251 Vernon, Oakland.
Architect ...None.
Contractor..E. P. Stone, 1212 Carrison, Berkeley.
COST, $600

ADDITION
(379) NO. 1118 EIGHTEENTH, Oakland. Addition.
Owner.....H. Curran, Premises.
Architect ...None.
Contractor..C. M. Griffin, 746 5th Ave., Oakland. COST, $400

DWELLING
(380) N E-NINETEENTH 40 W 17th Ave., Oakland. One-story 6-room dwelling.
Owner.....Antone Saremento, 1728 E-19th, Oakland.
Architect ...None.
Contractor..L. Santos, 1820 E-17th, Oakland.
COST, $3500

DWELLING
(381) E PORTWOOD 100 N E-8th, Oakland. One-story 3-room dwlg.
Owner.....Roza Rozaria, S. F.
Architect ...None.
Contractor..G. Souza, 2947 Boehmer, Oakland. COST, $500

DWELLING AND STORE
(382) NE EIGHTY-FIRST AVE AND E-14th, Oakland. One-story dwelling and store.
Owner.....A. David De Swint, Hotel Anwa, Oakland.
Architect ...None.
Contractor..G. A. Butzback, 1345 86th Ave., Oakland.
COST, $1930

APARTMENTS
(383) N YOSEMITE 80 E Piedmont Ave., Oakland. Two-story 18-room apartments.
Owner.....V. Z. Rutherford, Thomson Bldg., Oakland.
Architect ...None.
Contractor..W. M. Greuner, Thomson Bldg., Oakland.
COST, $10,000

DWELLING
(384) S HOPKINS 40 E Laguna, Oakland. One-story 6-room dwelling.
Owner.....G. Siegrest, 605 Market, Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2000

ALTERATIONS
(385) NO. 170 ATHOL AVE., Oakland. Alterations.
Owner.....C. A. Ingerson, 288 Lester Ave., Oakland.
Architect ...None.
Day's work. COST, $500

DWELLING
(387) E PERALTA 485 S Sonoma, Albany. One-story 5-room dwelling.

Owner.....E. M. Bertheand, 1027 Peralta Ave., Albany.
Architect ...None.
Day's work. COST, $1500

DWELLING
(388) E ADAMS 159 N Buchanan, Albany. One-story 4-room dwelling.
Owner.....C. J. Wadsworth.
Architect ...None.
Day's work. COST, $1000

RESIDENCE
(389) JEROME AVE, Lot 17 Nova Piedmont, Piedmont. Two-story 7-room residence.
Owner.....C. E. Wheeland, 1037 Fillmore, San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(392) S BOULEVARD WAY about 100 E Crofton being W Ptn Blk "C" Grand Ave Heights (by the Parks), Oakland. All work except finish hardware and light fixtures for two-story frame dwelling.
Owner.....Stanley E. and Eliza Crichton, 487 Crofton Ave., Okd.
Architect ...None.
Contractor..M. E. Hopper & Sons, 90 Glen Ave., Oakland.
Filed Feb. 23, '16. Dated Feb. 9, '16.
1st floor joists on.....$465
Frame up 750
Brown coated 750
Completed and accepted..... 750
Usual 35 days..... 750
TOTAL COST, $3465
Bond, none. Limit, 70 days. Forfeit, none. Plans and specifications filed.

ADDITION
(394) 706 BROCKHURST, Oakland. Addition.
Owner.....R. E. Norman, Premises.
Architect ...None.
Contractor..S. A. Warner, 5396 Princeton, Oakland.
COST, $700

SHEDS
(395) FOOT OF MARKET, Oakland. Nine one-story sheds.
Owner.....Pacific Gas & Electric Co., 13th and Clay, Oakland.
Architect ...None.
Contractor..M. E. Hopper & Sons, 90 Glen Ave., Oakland.
COST, $2700

ALTERATIONS
(396) NO. 930 WASHINGTON, Oakland Alterations.
Owner.....T. Barnet, 4149 Broadway, Oakland.
Architect ...None.
Contractor..R. M. Barton, 1637 E-20th, Oakland. COST, $400

DWELLING
(397) COR. GOLDEN GATE AND Acacia, Oakland. Two-story 10-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Contractor..O'Connor & Elrod, Syndicate Bldg., Oakland.
COST, $5000

A ventilating apparatus that automatically changes the air in a telephone booth each time it is used has been patented by an Illinois inventor.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
334	Lee	Kollmer	400
335	Turner	Butterfield	400
336	Buttes	Allen	400
337	Sellars	Cruickshank	500
338	Brasck	Brasck	3500
363	U of C	Cal Granite	22500
364	Same	Ne Page	6089
365	Same	Turner	51180
366	Same	Hannah	195000
367	Same	Wentworth	100675
368	Same	Turner	8215
374	Coggins	Hall	2000
375	Crittenden	Riddell	750
376	Johnson	Texdahl	725
377	Love	House	400
378	Lindquist	Lindquist	1000
386	Oja	Oja	1400
390	Nichols	Nichols	1500
391	Same	Same	1500
398	Coleman	Patrick	4275

ADDITION
(334) NO. 2704 HILLEGASS, Berkeley. Addition.
Owner.....D. Lee, Premises.
Architect ...None.
Contractor..Jacob Kollmer, 2813 Stuart Berkeley.
COST, $400

ADDITION
(335) E BENVENUE 120 S Dwight Way, Berkeley. Two-story 2-room addition.
Owner.....Chester R. Turner, 2517 Benvenue, Berkeley.
Architect ...None.
Contractor .Butterfield & Barker, 2474 Shattuck Ave., Berkeley.
COST, $400

GARAGE
(336) S DURANT 100 W Shattuck Ave., Berkeley. Garage.
Owner.....F. M. Buttes, 635 El Dorado Berkeley.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd..
COST, $400

ALTERATIONS
(337) S FAIRVIEW 100 E California, Berkeley. Alterations.
Owner.....S. A. Sellars, 3023 Benvenue Berkeley.
Architect ...None.
Contractor..James Cruickshank, 5667 Dover, Oakland.
COST, $500

DWELLING
(338) E SAN MATEO 160 N Indian Rock, Berkeley. One and one-half-story 7-room dwelling.
Owner.....M. P. Brasch, 5836 Ocean View Drive, Berkeley.
Architect ...None.
Day's work. COST, $3500

GRANITE BALUSTRADE
(363) UNIVERSITY CAMPUS, Berkeley. Granite balustrade for Sather Tower.
Owner.....Regents University of California.
Architect ...John Galen Howard, 604 Mission, San Francisco.
Contractor..California Granite Co., Sharon Bldg., S. F.
COST, $22,500

ELECTRIC WORK
(364) UNIVERSITY CAMPUS, Berkeley. Electric work for four-story Class "A" building known as Wheeler Hall.
Owner.....Regents University of California.
Architect ...John Galen Howard, 604 Mission, San Francisco.
Contractor..Ne Page-McKinney Co., San Francisco.
COST, $6089

(365) HEATING AND VENTILATING on above.
Contractor..Turner Co., 272 Natoma, San Francisco.
COST, $51,180

CLASS "A" LIBRARY
(366) UNIVERSITY CAMPUS, Berkeley. General construction for four-story Class "A" library.
Owner.....Regents University of California.
Architect ...John Galen Howard, 604 Mission, San Francisco.
Contractor..J. D. Hannah, Monadnock Bldg., San Francisco.
COST, $195,000

(367) BOOK STACKS AND METAL furniture on above.
Contractor..F. W. Wentworth & Co., 539 Market, San Francisco.
COST, $100,675

(368) PLUMBING ON ABOVE.
Contractor..Turner Co., 272 Natoma, San Francisco.
COST, $8215

DWELLING
(374) SW PINE AVE AND RUSSELL, Berkeley. One-story 5-room dwlg.
Owner.....Leola Hall Coggins, 2929 Piedmont Ave., Berkeley.
Architect ...None.
Contractor..Hall & Coggins, 2929 Piedmont Ave., Berkeley.
COST, $2000

GARAGE
(375) NO. 2437 LE CONTE AVE., Berkeley. Garage.
Owner.....C. W. Crittenden, Premises.
Architect ...None.
Contractor..Riddell Bldg. Service Corporation, 2247 Telegraph Ave., Berkeley.
COST, $750

ALTERATIONS
(376) NO. 1614 ALCATRAZ AVE., Berkeley. Alterations.
Owner.....Hannah Johnson, Prem.
Architect ...None.
Contractor..C. Texdahl, 3035 Harper, Berkeley.
COST, $725

ALTERATIONS
(377) NO. 2112 VIRGINIA, Berkeley. Alterations.
Owner.....Clara Love, Premises.
Architect ...None.
Contractor..Jacob House, 1640 Allston Way, Berkeley.
COST, $400

DWELLING
(378) —CURTIS 271 S Gilman, Berkeley. One-story 5-room dwelling.
Owner.....Ida Lindquist, 1334 Curtis, Berkeley.
Architect ...None.
Contractor..N. E. Lindquist, 1334 Curtis, Berkeley.
COST, $1000

DWELLING
(386) N OREGON 105 W Matthews, Berkeley. One-story 4-room dwlg.

Owner.....Wm. Oja, 1212 Oregon, Berkeley.
Architect ...None.
Day's work. COST, $1400

DWELLING
(350) N WARD 213 E Mabel, Berkeley One-story 5-room dwelling.
Owner.....C. S. Nichols, 1719 Castro, Oakland.
Architect ...None.
Day's work. COST, $1500

DWELLING
(391) N WARD 178 E Mabel, Berkeley One-story 5-room dwelling.
Owner.....C. S. Nichols, 1719 Castro, Oakland.
Architect ...None.
Day's work. COST, $1500

DWELLING
(398) W SPRUCE 86 N Indian Rock Ave., Berkeley. Two-story 7-room dwelling.
Owner.....Florence Coleman, 1617 Cedar, Berkeley.
Architect ...None.
Contractor..O. M. & H. G. Patrick, 2001 Hopkins, Berkeley.
COST, $4275

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
347	Thompson	Thompson	4000
348	Anderson	Rockingham	1995
349	Strang	Strang	2700
350	Alameda Zone	Baker	500
351	Kronigshofer	Owner	450
352	Stephens	MacRae	450
353	Leydecker	Cowart	950
354	McFarlane	Andresen	800
393	Masonic Hall	Swenson	1064

PAVILION
(347) SURF BEACH PARK, Alameda. Pavilion.
Owner.....L. A. Thompson Coaster Co., Premises.
Architect ...None.
Day's work. COST, $4000

DWELLING
(348) NO. 2625 SANTA CLARA AVE., Alameda. One-story 5-room dwelling.
Owner.....Anna Anderson, 2109 Pacific Ave., Alameda.
Architect ...None.
Contractor..W. H. Rockingham, 2306 San Jose Ave., Alameda.
COST, $1995

DWELLING
(349) NO. 3226 BAYO VISTA AVE., Alameda. Two-story 6-room dwlg.
Owner.....F. N. Strang, 805 Pacific Ave., Alameda.
Architect ...None.
Day's work. COST, $2700

OFFICE BUILDING
(350) CENTRAL AVE AND PAGE, Alameda. Fence and office building.
Owner.....Alameda Zone, 450-52 Monadnock Bldg., S. F.
Architect ...None.
Contractor..A. D. Baker, 2131½ Union, San Francisco.
COST, $500

ADDITION
(351) NO. 2137 SANTA CLARA AVE., Alameda. Addition.
Owner.....Leon Konigshofer, Prem.
Architect ...None.
Day's work. COST, $450

(352) NO. 1250 BAY, Alameda. Alterations.
Owner .....Dr. W. B. Stephens, Prem.
Architect ...None.
Contractor..C. MacRae, 2305 Encinal Ave., Alameda.
COST, $450

DWELLING
(353) NO. 7 MASTICK COURT, Alameda. One-story 4-room dwelling.
Owner.....Theo. O. Leydecker, 839 Laurel, Alameda.
Architect ...None.
Contractor..Z. T. Cowart, 3275 Central Ave., Alameda.
COST, $950

STORE
(354) NO. 1325 HIGH, Alameda. One-story store.
Owner.....G. C. McFarlane.
Architect ...None.
Contractor..H. C. Andresen, 1229 Pearl, Alameda.
COST, $800

ALTERATIONS
(393) NO. 1329 PARK, Alameda. All work for remodeling store.
Owner.....Masonic Hall Ass'n. of Alameda, Premises.
Architect ...F. D. Voorhees, Central Bank Bldg., Oakland.
Contractor..L. Swenson, 2242 Encinal Ave., Alameda.
Filed Feb. 24, '16. Dated Feb. 23, '16.
One-half completed $399
Completed and accepted..... 399
Usual 35 days..... 266
TOTAL COST, $1064
Bond, $532. Sureties, D. M. Etter and A. Akesson . Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Feb. 18, 1916—E GRAND AVE W Park View Terrace N on curve to right 97.67 NE 98.55 SE 40.56 SW 100.95, Okd. Chas J and Carrie D. Rousseau to Anderson & Ringrose ....Feb. 14, 1916
Feb. 19, 1916—LOT 9, BLK A, Map Waterside Terrace, Alameda. Mark T Cole to whom it may concern.... .....Feb. 18, 1916
Feb. 21, 1916—LOT 10 BLK 14 Map Northbrae, Bkly. Tom R Wheldon to H H Schuessler.....Feb. 21, 1916
Feb. 21, 1916—NW FOURTEENTH Ave 80 SW E-21st SW 35xNW 124, Okd. Albert Hammarberg to whom it may concern.....Feb. 21, 1916
Feb. 23, 1916—**NE COR. E-TWENTY-fourth and SE 11th Ave** NE 35xSE 100, Okd. Robert W Farmer to whom it may concern...Feb. 23, 1916
Feb. 23, 1916—W FILBERT 125 S 8th S 43-8¾, Okd. E Marshall to O M Bullock .....Feb. 15, 1916
Feb. 23, 1916—LOT 18 Nova Piedmont Tract, Piedmont. Chas E Wheeland to whom it may concern..... .....Feb. 23, 1916
Feb. 24, 1916—S 11 LOT 37 and all Lot 36 and N 3 Lot 37 and S 22 Lot 37 and N 17 Lot 38 Blk "F" Map Broadway Terrace, Okd. Paul E Woodburn to whom it may concern .....Feb. 24, 1916
Feb. 24, 1916—LOT 11 BLK 22 Map Northbrae, Okd. W N Taylor to J G Taylor.....Feb. 18, 1916

LIENS FILED

ALAMEDA COUNTY.

Feb. 17, 1916—LOT 85, map Piedmont by the Lake, Oakland. Sadie Bartlett Campbell (wf L. G.).....$5000
Feb. 21, 1916—W MARKET 90 from N line 24th N 40xW 120, Okd. Leo V Gelder vs S Scheyer, J L Stewart and G A Webb (Stewart & Webb).. .....$267
Feb. 23, 1916—LOT 8 BLK "K" Map Grand Ave Heights, Okd. T O Churchill vs Leo L Nichols and G F Sperow $85
Feb. 23, 1916—LOT 7 BLK "K" Map Grand Ave Heights, Oakland. T O Churchill vs Leo L Nichols and G F Sperow $120
Feb. 23, 1916—LOT 14 BLK 6 Map Brookdale Terrace, Okd. I M Toalson (Alameda Hardwood Floor Co) vs Thomas A and Ethie L Batte and O G Smith $81
Feb. 24, 1916—N FORTY-FIRST 117 SE Linden SE 50 NE 88.31 W to arc to left 52.26 SE 73.23, Okd. Terminal Lumber Co vs C Izolla..$85.07

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME COTTAGE AND GARAGE
LOT 3 BLK 17, Hanchett Park Tract, San Jose. All work for one-story frame cottage and garage.
Owner.....Geo. Prindiville, San Jose.
Architect ...C. S. McKenzie, Bank of San Jose Bldg., San Jose.
Contractor..A. Compton, 547 N-17th, San Jose.
Filed Feb. 11, '16. Dated Feb. 5, '16.
Frames up $818.25
1st coat plaster on cottage... 818.25
Both completed 818.25
Usual 35 days..... 818.75
TOTAL COST, $3273.00
Bond, $1700 Sureties, W. M. Stalker and S. L. Williams. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
COR. EIGHTH AND ST. JOHN STS., San Jose. All work for two-story frame dwelling.
Owner.....L. V. Saph, Garden City Bank Bldg., San Jose.
Architect ...None.
Contractor..F. T. Edmans, 113 W-Santa Clara, San Jose.
Filed Feb. 15, '16. Dated Feb. 15, '16.
Frame up $1037
1st coat plaster on..... 1037
Building completed 1037
Usual 35 days..... 1039
TOTAL COST, $4150
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

BUNGALOW
LOT 15, BLK "B," of Hayward Park, San Mateo, Cal. All work for one story frame bungalow, 6 rooms and sleeping porch, concrete foundation.
Owner.....Louise C. Casey, San Mateo.
Architect....None.
Contractor..Croop & Keegan, San Mateo.
Filed Feb. 17, '16. Dated Feb. 14, '16.

Frame up and roof sheathed...$625
Brown plastered 625
Completed 625
Usual 35 days 625
TOTAL COST, $2500

Bond, $1250. Sureties, M. L. Boland and Elizabeth W. Brown. Forfeit, none. Limit, 60 days. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED

Feb. 7, 1916—N VINE, bet First and Market, San Jose. Mary A Ward to W J Moore and Frank Cox..... .....Feb. 4, 1916

Feb. 7, 1916—LOT 30 CHACE PARK Ave Tract, San Jose. W E Woodhams to whom it may concern..... .....Feb. 7, 1916

Feb. 17, 1916—PTN LOT 15 Leddy Tract, San Jose. L I Kelly to whom it may concern.....Feb. 12, 1916

Feb. 17, 1916—NO. 16 E-SANTA Clara St., San Jose. G R Sheppard, Agent to Mrs M D'Oyly..Feb. 10, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT

Feb. 11, 1916—NR COR. McLaughlin Ave and Story Road, San Jose. Bean Spray Pump Co vs A G Eisenmann $16.40

Feb. 11, 1916—NR COR. McLaughlin Ave and Story Road, San Jose. A Rodriquez vs A G Eisenmann..$29.34

Feb. 15, 1916—LOT 45 Sanderson Garden Tract, San Jose. Glenwood Lumber Co vs John and Mary Turturtici $140.46

LIENS FILED.

SAN MATEO COUNTY.

Feb. 16, 1916—LOT 7, BLK 14, Easton Addition to Burlingame, Burlingame. Loop-Wisnom Lumber Company vs. Grace W. Easton or Eaton and J. B. Woolfrey.....$161.14

Feb. 18, 1916—LOTS 12 AND 13 in block 6, Burlingame Grove Tract, Burlingame. Gust Johnson vs. A. L. Bowley $100

COMPLETION NOTICES

SAN MATEO COUNTY.

Feb. 17, 1916—PTN OF LOTS 1 AND 2 in block 26, Sub. of Town of San Mateo. Andrew F. Hahn to Croop & Keegan .....Feb. 11, 1916

BUILDING CONTRACTS.

MARIN COUNTY.

COTTAGE

SAN RAFAEL. All work for one and one-half-story cottage

Owner.....H. H. Hearfield, San Rafael
Designer ...S. A. Fancher.
Contractor..N. E. Abbott, San Rafael.
Filed Feb. 18, '16. Dated Feb. 17, '16.
Frame up $800
When plastered 800
When accepted 800
Usual 35 days..... 900
TOTAL COST, $3300

Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

STORE BUILDING

SAN ANSELMO. All work for one-story store building

Owner.....Carlo P. Pizochero.
Architect ...O'Brien Bros., Inc., 240 Montgomery, S. F.
Contractor..Peter Hamilton, Russ Bldg San Francisco.
Filed Feb. 19, '16. Dated Feb. 17, '16.
On 1st & 15th of each month.. 75%
Usual 35 days..... 25%
TOTAL COST, $7250

Bond, none. Limit, 70 days. Forfeit, none. Plans and specifications filed.

ELECTRIC WIRING

SAN RAFAEL. Electric wiring for Court House.

Owner.....County of Marin.
Architect ...None.
Contractor..G. W. Fox.
COST, $640.22

FILTERS

SAN RAFAEL. Install 3 filters for Municipal Bath.

Owner.....City of San Rafael.
Architect ...None.
Contractor..California Jewell Filter Co., Merchants' Exchange Bldg., San Francisco.
COST, $2780

BUILDING CONTRACTS.

CONTRA COSTA COUNTY.

STEAM HEATING PLANT

ALL MATERIALS AND LABOR required and install a vapor vacuum steam heating plant in City Hall.

Owner.....Nicholl City Hall Building Committee, Richmond, Cal.
Heating Engineer..John G. Grierson.
Contractor..John I. Collins, 252 17th St., Richmond, Cal.
Filed Feb. 17, '16. Dated Feb. 11, '16.
Progressive of 75%
Usual 35 days .....Bal.
TOTAL COST, $1765

Bond, $900. Surety, Royal Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

REMODELING

LOTS 12 TO 21 inclusive and lots 24 to 42 inclusive block 99 of City of Richmond. All work of remodeling of gymnasium building of Richmond Union High School.

Owner.....High School Board of Richmond, Richmond, Cal.
Architect....Stone & Wright, San Joaquin Valley Bank Bldg., Stockton.
Contractor..C. H. McCausland, Bush near 4th, Richmond.
Filed Feb. 14, '16. Dated Feb. 7, '16.
On or about 1st Monday of each month after meeting of Broad 75%
Usual 35 days 25%
TOTAL COST, $1738

Bond, $869. Sureties, New England Equitable Insurance Co. Forfeit, none. Limit, within 60 days. Plans and specifications filed.

REFINERY PROPERTY AT AVON. Contra Costa County, Cal. All work for 16-room bunk house.

Owner.....Associated Oil Co., Avon, Cal., and Sharon Bldg., San Francisco.
Engineer....Arthus F. S. Bell, Sharon Bldg., S. F.
Contractor..Gustave R. Nelson,, 211 Diamond, S. F.
Filed Feb. 17, '16. Dated Feb. 2, '16.
Progressive on 10th day of each month 75%
Usual 35 days .....Bal.
TOTAL COST, $1920

Bond, $960. Sureties, Guardian Casualty and Guaranty Co. Forfeit, none. Limit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED

Feb. 19, 1916—SAN ANSELMO, Marin Co. Gabriel Franchini to Perkins & Sherwood.....Feb. 18, 1916

Feb. 18, 1916—SAUSALITO, MARIN County. Henry Kruse to M. C. Drechsler .....Jan. 27, 1916

RELEASE OF LIENS.

MARIN COUNTY.

RECORDED AMOUNT

Feb. 21, 1916—SAN ANSELMO, Marin Co. Elling Ellingson to Harry McMillen $191

RELEASE OF LIENS.

CONTRA COSTA COUNTY.

Feb. 15, 1916—PTN OF LOT 6 of Huber Tract, Stege, Cal. Hidecker Lumber Company to W. F. Huber and A. Lefebure.....$167.95

LIENS FILED

CONTRA COSTA COUNTY.

RECORDED AMOUNT

Feb. 8, 1916—ALL LOT 117 and W ¼ of 18, E ptn of Lots 115 and 116 resubdivision of Lot 79 R. N. Burgess Company on Map No. 2 located near Town of Concord, Cal. J P Graham, doing business as Graham Lumber Company vs S A Radnich et al.....$166.70

Feb. 16, 1916—LOT 12 in block 50, Town of Crolona, Cal. O. Prytz vs. P. Murphy $190

Feb. 16 1916—LOT B in block 50 of Town of Crolona Cal. M. C. Arnold vs. Mary and P. Murphy.....$77

Feb. 8, 1916—LOT 1 in block A, Parkside add to Town of Concord and resurvey of blocks 1 to 14 inclusive, 18 and a portion of 17 and 19, Parkside add to Town of Concord. J. P. Graham (as doing business as Graham Lumber Company) vs. W. I. Setchell, et al.....$79.45

Feb. 16, 1916—LOT 8 in block 11 of Condon add to Town of Martinez, Cal. Martinez Lumber Company vs. Carrie McLenegan.....$141.28

Jan. 31 1916—LOT 7, block 1 of Pullman, Townsite, City of Richmond, Cal. Spiersch Bros. vs. Mary Smith $17.75

Feb. 8, 1916—ALL LOT 17 and W ¼ of 18, E ptn of lots 115 and 116, resubdivision of lot 79, R. N. Burgess Company on map No. 2, located near Town of Concord, Cal. J. P. Graham, doing business as Graham Lumber Company vs. S. A. Radnich .....

Feb. 14, 1916—LOTS 33 and 34 in block 6, Meeker's Add to City of Richmond, Cal. Edward E. Listman vs I. W. Callaway.....$269.50

BUILDING CONTRACTS.

FRESNO COUNTY.

ELLING
'S 37 AND 38 BLK 4, Orchard Hill
ddition, Fresno. Dwelling.
ner.....O. D. Atkins, 3219 Kerckhoff St., Fresno.
hitect ...None.
's work. COST, $1800

LIENS FILED.

FRESNO COUNTY.

CORDED AMOUNT
). 24, 1916—S ½ OF NE ¼ OF NE
¼ Sec 25-16-19, Fresno. H C Kofoid
umber Co vs J M Crawford.....$287

OTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

). 24, 1916—NO. 2325 FRESNO ST., Fresno. Emma M Brix and Estate f Brix Minors as to improvements n leased property.....
). 24, 1916—NO. 1139 J ST., Fresno. Emma M Brix and Estate of Brix linors as to improvements on eased property .....

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

VING PLANT
OS. OATS TRACT on R St. Raiload west of Oak Ave., Sacramento. Asphalt paving plant, factory type of onstruction covered with galvanized ron, underground, steam heating ystem.
ner.....A. Teichert & Son, Ochsner Bldg., Sacramento.
chitect ...None.
ntractor..Geiger Iron Works, 120-130 W-Main St., Sacramento
COST, $10,000

TERATIONS
). 2012 F ST., on E ½ of Lot 2 Blk F, 7, 20th and 21st Sts., Sacramento. Remodel private garage and set 260 gallon gasoline tank in sidewalk.
wner.....J. L. Russell, Premises.
chitect ...None.
ay's work. COST, $600

MBER RACK
). 1918 FRONT ST., on Blk R, T, 1st and 2nd Sts., Sacramento. Lumber rack.
wner.....Friend & Terry Lumber Co., Premises.
chitect ...None.
ay's work. COST, $500

RAME DWELLING
). 316 TWENTY-EIGHTH on N ¼ of Lot 5, C, D, 27th and 28th Sts., Sacramento. One-story 5-room and bath frame dwelling (concrete foundation).
wner.....E. C. Strauch 2926 S St., Sacramento.
rchitect ...None.
ontractor..T B. Hunt, 2926 S St., Sacramento. COST, $2000

DDITION
RONT AND "L," H, I, Front and 2nd Sts., Sacramento. One-story brick addition to water works with felt and gravel roof.
wner.....City of Sacramento, City Engineer's Office.
rchitect ...None.
Contractor..Teichert & Ambrose, Ochsner Bldg., Sacramento.
COST, $2418

FRAME DWELLING
NO. 3214 ALLEN AVE., Lot 25 Allen Tract, Sacramento. One-story five-room and bath frame dwelling with concrete foundation.
Owner.....W. B. Phillip, 4011 Cypress Ave., Sacramento.
Architect ...None.
Day's work. COST, $1500

REPAIRS
NO. 208 TWENTY-SIXTH ST., on N ½ of S ½ Lot 4, B, C, 25th and 26th Sts., Sacramento. Repair, place on concrete foundation and move from school site on E, F, 17th and 18th Sts.
Owner.....A. Winslow, 2123 3rd St., Sacramento.
Architect ...None.
Contractor..A. Johnson, 20th and F Sts Sacramento.
COST, $500

BUILDINGS
PTN OF S L S 323 and fraction pin of Sec 9 T 4 R 3, Sacramento. All work for buildings.
Owner.....H. J. Brock.
Architect ...None.
Contractor..W. L. Graff.
Filed Feb. 19, '16. Dated Nov. 1, '15.
COST, $6327

DWELLING
YARDLY AVE, Lot 1591 W and K Tr., Sacramento. One and one-half-story 5-room and bath Denison tile dwelling with concrete foundation.
Owner.....Chas. Deane, State Architect's Office, Sacramento.
Architect ...None.
Contractor..R. M. Smith, 2017 18th St., Sacramento.
COST, $3500

BRICK FOUNDATION
NO. 812 K ST., on S 68 of E ¼ of W ½ of E ½ Lot 2, K, L, 8th and 9th Sts., Sacramento. Brick foundation wall under two-story brick building.
Owner.....Lucien Coen, O St., bet 9th and 10th Sts., Sacramento.
Architect...None.
Contractor..A. Simminds, M St. Road, Sacramento.
COST, $400

BUILDING CONTRACTS.

SAN JOAQUIN COUNTY.

HEATING SYSTEM
SUTTER AND MAIN STS. Stockton. Install and complete low pressure steam heating system for one-story Class "A" bank building.
Owner.....Stockton Savings Bank by P. J. Walker, General Contractor, Monadnock Bldg., San Francisco.
Architect ...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..Miller-Hays Co.
Filed Feb. 19, '16. Dated Feb. 17, '16.
Payments semi monthly.....
36 days after.....Final
TOTAL COST, $1750
Bond, $875. Surety, Maryland Casualty Co. Limit, forfeit, none. Plans and specifications filed.

ALL PLUMBING AND SHEET METAL work on above.
Contractor..Pahl-Harry Co., 35 South Sutter St., Stockton.
Filed Feb. 19, '16. Dated Feb. 17, '16.
On 1st and 15th of each month....
36 days after.....Final
TOTAL COST, $1944
Bond, $972. Surety, Maryland Casualty Co. Limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SONOMA COUNTY

CLASS "C" HOTEL
CALIENTE SPRINGS. All work for two-story Class "C" hotel building.
Owner.....Theo. Richards and wife, Auga Caliente.
Architect ...O'Brien Bros., 240 Montgomery, San Francisco.
Contractor..J. M. Hildebrandt, Elks' Club, Santa Rosa.
Filed Feb. 17, '16. Dated Feb. 16, '16.
Exterior walls 6 feet high.....$3575
Ready for ceiling joists, 2d floor 3075
Roofed & plumbing roughed in. 3075
Brown coated 3075
Completed and accepted..... 3075
Usual 35 days..... 5125
TOTAL COST, $21,000
Bond, $10,500. Surety, Massachusetts Bonding & Insurance Co. Limit, 120 working days. Forfeit, $10 a day. Plans and specifications filed.

LIENS FILED

SONOMA COUNTY.

RECORDED AMOUNT
Feb. 17, 1916—ANALY TOWNSHIP. Hess Lumber Co vs J E Estes & wife $165.51

COMPLETION NOTICES

SONOMA COUNTY.

RECORDED ACCEPTED
Feb. 15, 1916—SONOMA. Sonoma School District to R H Ingraham.. .....Feb. 16, 1916
Feb. 19, 1916—SANTA ROSA. C O Dunlap to J C Lindsay..Feb. 16, 1916

COMPLETION NOTICES

SAN JOAQUIN COUNTY.

RECORDED ACCEPTED
Feb. 15, 1916—NEW EL DORADO School, Stockton. Stockton Board of Education to R W Moller..... .....Feb. 11, 1916
Feb. 23, 1916—ELM ST., Lodi, Cal. Dempsey Smith to Fred Cary..... .....Feb. 23, 1916

QUARANTINE HOSPITAL FOR BUENAVENTURA.

The Government of Colombia is authorized by a recent law published in the Diario Oficial to erect a temporary quarantine hospital at Buenaventura, where persons suffering from yellow fever or other epidemic may be isolated pending the construction of the proposed sanitary station. The law specifies that a structure for the quarantine hospital may be ordered by cablegram from a foreign country, and it must be ready to be put together and set up in the shortest possible time. In addition to temporary measures, plans for the complete and permanent sanitation of Buenaventura are now under consideration. Commerce Reports.

ARCHITECTURE FOR LONG BEACH SCHOOLS.

LONG BEACH, Cal.—Courses of collegiate standing in architecture are to be given in Long Beach high school in the near future if the petition of a score or more of budding architectural draughtsmen and structural engineers is granted by the board of education.

The request was received at the last regular board meeting and referred to the committee on teachers and courses of study. It is estimated that the first few courses can be given by the present instructors of the department of architecture and art with little or no extra expense to the district.

DISCUSS PLANS TO IMPROVE BAY.

RICHMOND, CAL.—Argument over the amount of money to be spent immediately on the harbor project from the bond money voted for such improvements is at present furnishing interest in the city council and all local civic bodies.

Originally 1,170,000 was voted by the city for improving its harbor with the understanding that government help would be secured to assist. Of this amount $230,000 will be expended when the tunnel, highway and outer wharf, now building, are finished. This leaves about $640,000 in the harbor improvement fund. Other needed improvements on the outer harbor will reduce this amount to nearly $400,000 for use in the inner harbor.

The nature of improvements for the inner harbor is the present question. City Attorney D. J. Hall will on next Monday present to the council an agreement between the city and the Bay Counties Land Company by which the company will part with valuable harbor lands to the city if the city will build a bulkhead and dredge a channel to their lands. The land company will give 100 acres of land and 20,000 to the project. The filled lands would be held for factory sites at a very low figure.

SHIPS SECURED FOR PUGET SOUND-VLADIVOSTOK LINE.

A new agency for a steamship line from Puget Sound ports to Vladivostok, the H. F. Ostrander Shipping Co., has recently been established with headquarters in Seattle. Eight vessels have been chartered for the Puget Sound-Vladivostok trade. These range in dead weight tonnage from 5,500 to 8,000, and will be continued in the service as long as the trade justifies it. The ships now under charter will afford sailings once a week, with a schedule starting February 2.

These charters will no doubt help relieve the freight congestion in Puget Sound ports. It is stated that transcontinental railways entering this section will act as agents for this new line.—Commerce Reports.

LIABILITY UNDER THE COMPENSATION ACT.

One of our local contractors, about a year ago, while doing a job in the country, had one of his men severely injured. He was carrying compensation insurance with the Commonwealth Bonding Company.

After the accident the insurance company took charge of the case and paid the injured his weekly compensation for a period of some six months, at the end of which time the company was forced into insolvency and thereafter failed to make any further payment of compensation to the injured, claiming that they had no money for such purposes, or to meet their liabilities.

Several months thereafter it developed that neither the contractor nor the insurance company had filed a proper statement with the Industrial Accident Commission (as required by them), requesting the commission to substitute the company for the employer as the liable party.

The insurance carrier having failed to meet its obligations in this case and the injured man having been without compensation for some months, it is quite possible that the contractor will be held to be the liable party, no substitution having been made by the Commission in this case and the contractor therefor not having been relieved of his original liability.

The draft of the act as originally prepared by the Commission had in mind the limiting of the employer's liability, whereby his credit would not be involved, by permitting him to file a notice of substitution with the Commission to the effect that he was insured in a certain company (see Section "E," sub-sections 1 and 2) and the insurance company was supposed to file on admission of liability. When this section is not complied with either by the employer or his insurance carrier, a condition arises similar to that in the case quoted above, in the event that the insurance company fails and is unable to meet its obligations. Where the insurance company acts in good faith and pursues a proper business practice for the protection of its policy holders, the admission of liability is invariably filed, but the above mentioned case should teach us that it is not safe to rely on the insurance company to file the notice of admission of liability and that the contractor, to be absolutely safe, should himself file a notice that he is insured with this certain company and requesting that substitution be made. Furthermore, he should not stop at that, but should satisfy himself that the substitution actually has been made. To insure this being done he should exhibit his policy to the Commission and the order of substitution will then be made by the Commission.

It should be understood that when neither the insured nor the insurance carrier file the substitution notice, both are made liable and the injured may collect from either.

Only companies licensed by the State Insurance Commissioner can do business in this state, and such companies must have on deposit with the state in which is located their head office, good and sufficient security to a value of not less than $200,000.

When such license to do business in this state is cancelled by the Insurance Commissioner (as was the case with the Commonwealth Bonding Company) the Industrial Accident Commission holds that thereafter such company is not an insurance carrier within the meaning of the act and they will not make any substitution asked for.

In the case we have considered above, the license of the Commonwealth Bonding Company was cancelled on September 21, 1915, and since then no substitutions have been made by the Industrial Accident Commission, unless it was filed prior to that date.

Mr. A. J. Phillsbury, chairman of the Industrial Accident Commission, states that when such notice of substitution is defective it is not recognized and in the case of the Commonwealth Company the notice filed with the Commission was not signed, and, although it is possible that the notice to the injured party from the company may have been signed, the Commission refuses to recognize the notice on account of no signature.

The Commonwealth Company succeeded in getting away with the $200,000 worth of good securities it had on deposit in the state of Texas and substituted therefor the notes of its Directors, which were found to be worthless. The Industrial Accident Commission has brought suit to recover the lost securities and if they are successful in this the policyholders of the company in California will eventually be protected.

The whole question of the substitution clause of the Compensation Act is doubtful as to its legality. If the Supreme Court holds that there is no power vested in the Legislature to provide for substitution, then the whole substitution provision will be void and all decisions will run against the insurance carrier and the employer jointly and an amendment to the State Constitution will be required to make the substitution clause legal.

It may be well to note that labor is strongly opposed to the substitution provision of the present act, claiming that the clause is no good because it makes the employer careless, since he will not personally be held responsible. Then, too, labor claims that one of the liable parties to whom the employee must look for his compensation is thus taken away from them and they are left with the insurance company only to look to.—General Contractors' Association Review.

Blocking of the Panama Canal creates administrative problems that test the flexibility and resourcefulness of the Governor of the Canal Zone. To find work for the men who ordinarily man the locks and guide the boats through the canal, recourse has been had by him to the plans for adornment of the canal entrances which were worked out by an expert commission of planners and architects whom the authorities in Washington a few years ago called in to adivse as specialists. If traffic cannot be carried on then labor must be given to make the zone more beautiful! So the official decree runs, and who says it is not a commendable one?

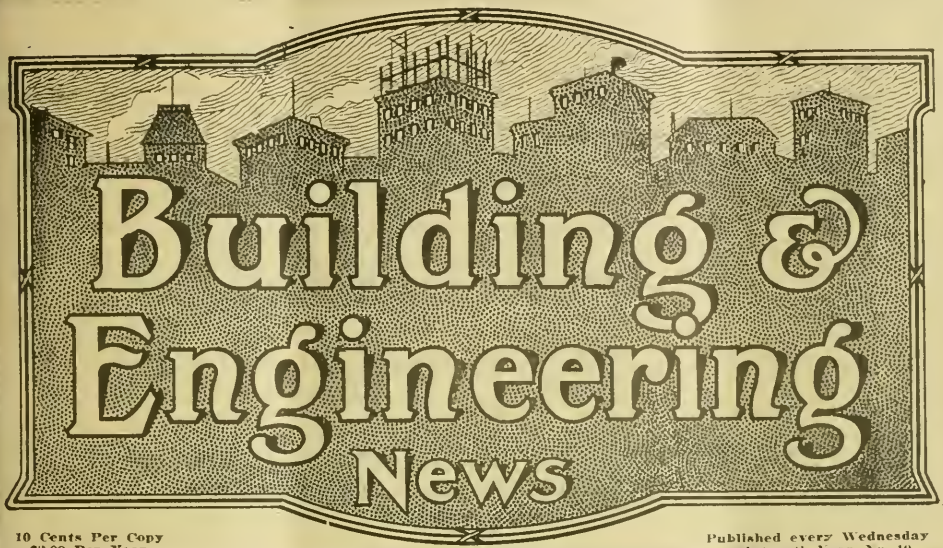
VENEZUELA.

Consul Homer Brett, La Guaira, Jan. 22.

New Bull Ring for Caracas.

The municipality of Caracas has tentatively approved a contract signed by the governor of the Federal District for construction of a new bull ring. The new building is to seat 12,000 spectators and is to be constructed so as to be also serviceable for theatrical and operatic purposes. The plans have been based upon those of the great Plaza de Toros of Madrid.

[The name of the architect and of the contractor may be obtained at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 72286.]



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Plans For Consolidation Of The Exchange And Association Arousing Interest.

More than usual interest in the forth coming election of the Directors of the Builders' Exchange is being manifested by the membership at large since it became known that the Building Trades Employers' Association was backing a ticket.

The ticket that the B. T. E. A. is endorsing, is pledged to devise a satisfactory plan for the unification of the building interests of San Francisco under one roof, which plan would then have to be submitted to the membership at large of both organizations for their endorsement before it could be effective.

It seems to be agreed on all sides that a unification or consolidation of the Exchange and the Association under one roof, would be a great step forward, but the rock upon which they disagree is that of the government. The present Board of Directors of the Exchange, and a great part of their membership, say that they would gladly receive into the Exchange the General Contractors' Association as individuals, thus retaining the present form of government of the Exchange, and any other form of government would not meet with their approval.

The Building Trades Employers' Association feel that they are not properly understood in this matter and desire to be placed upon record as per the following letter:

To the Editor Daily Pacific Builder.
Dear Sir:—

We, the undersigned, wish to take advantage of your columns for the purpose of making clear to your readers the present activities of the Building Trades Employers' Association in its endeavor to aid and assist in the unification of the building industry in San Francisco.

At the present moment there are in existence two headquarters or meeting places, namely, the Builders' Exchange and the General Contractors' Association. It is believed by this Association that the existence of two separate meeting places, no matter how well conducted, are a detriment to the business, and that these should be unified into one headquarters in which every line of the building industry shall have representation.

Many of our firms are paying dues to both places, are obliged to maintain representatives in both places and are thereby under unnecessary expense and also suffer a certain loss of efficiency.

The Building Trades Employers' Association in endorsing a number of nominees for directors of the Builders' Exchange are endorsing the principle of unification and centralization of the building industry, believing that such a plan will go far to eliminate the evils therein.

The committee at this time wish emphatically to state that their movement is an endorsement of principal alone, and that no matter of personality will be injected in this movement.

The building industry has never received the recognition which its magnitude should command, owing to the division of interests within its own ranks.

Unification will solidify the interests and bring that recognition and respect which must exist in any successful business.

We believe that the thinking men in the building industry will give this movement their support.

BUILDING TRADES EMPLOYERS' ASSOCIATION.
H. MORTENSON.
R. A. HISCOX.
M. A. DeLEW.
Special Committee.

Since the publication of the list of candidates endorsed by the Building Trades Employers' Association, the following signed letter was posted in the Exchange. It will be noted that the signers thereto are all agreed as to the desirability of unification.

TO THE MEMBERS OF THE BUILDERS' EXCHANGE.

Our names have appeared in the daily press as being the nominees for Directors of your Exchange of a certain organization who have nominated a ticket in opposition to your present Board of Directors, we therefor, wish to state publicly that we are not such nominees, nor do we approve of any external body, not being members of the Builders' Exchange, to dictate any policies of our Exchange or in any way interfering with its affairs.

We wish to state that we favor unification of the two bodies on lines that are just and equitable to the two parties concerned, the same as our present Board.

(SIGNED)
JOHN D. McGILVRAY, JR.
HENRY JACKS.
W. W. HAYES.

SIMPLEX WINDOW CO. INVADES EASTERN FIELD.

Californians ought to feel proud of the phenominal success of the Simplex Window Co., a purely California product. Although but a few years old, this company has met with phenominal success in the East. Monumental buildings in all the large Eastern cities are now being equipped with Simplex windows, the company having established a sales force backed with manufacturing facilities in 24 of the large Eastern cities.

Among some of the jobs just sold they mention the St. Louis Railway Ticket Office, a $600,000 building; the Dallas High School, Texas, using 1250 pairs of their patent fixtures; the Austin High School (Texas) 900 pair and a 70-room additional class room also in Texas; a Court House in Pennsylvania. In the last four months over 25,000 fixtures were sold through the Eastern offices.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 5 story and base. Class A construction. Cost not stated. Architect, Will H. Toepke, 46 Kearny street, S. F. Owners, Doe Estate. Mr. Phillips of the Doe Estate Co. owners of the gore corner at Market, Hayes and 9th streets, states that a Class A building of not less than five stories will be erected on the property before the end of the year. The building will probably occupy only a portion of the lot, having a Market street frontage of 160 feet and 155 feet on Hayes street. There will be stores on the first floor and a number of apartments on the upper floors. The present condition of the steel market is probably the only thing holding back the immediate improvement of the property. While the owners would not give the name of their architect, they admit that plans are underway. Will H. Toepke, 46 Kearny street, will probably be named as the architect.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architect, none. Owner, Walker R. Props, 1301 Gough street, S. F. Location, southwest corner of Jackson and Leavenworth, covering an area of 43 by 56 feet. Will contain fifteen suites of two and three rooms. Interior finish pine with some elm panels and hardwood floors. Wall beds and private baths. Steam heat and oil burning system. Hot water supply. Composition in bath rooms. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 5 and 7 story and base. Class A construction, $200,000 or more. Architect, T. Patterson Ross, 310 California street, S. F. Owner, W. F. Chipman. Location, southeast corner Powell and Sacramento. Only preliminary plans for this work have been prepared and a complete description cannot be given at this time. The building will be designed for exclusive apartments and will contain suites of from five to twelve rooms. Construction will be fireproof. Further mention will be made of the work.

SAN FRANCISCO—Apartment house and stores, 3 story and base. Class C construction, $30,000. Architect, William Wakeman. Owner, Andrew Nelson, Fulton and Gough streets, S. F. Location, northwest corner of Folsom and Ninth, covering an area of 72 by 100 feet. Will contain four stores besides the entrance on the first floor. Upper floors arranged for 22 suites of two and three rooms. Interior finish pine and elm panels. Some hardwood floors. Steam heat, hot water supply and oil burning equipment. Wall beds. Patent store fronts. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment houses, 2, 3 story and base, frame and brick. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northwest corner of Post and Octavia, covering an area of 50 by 120 feet. Each will contain fifteen suites of two and three rooms. Steam heat, oil burning equipment and hot water system. Interior finish pine, hardwood and white enamel. Hardwood floors. Wall beds. Bath rooms tile. Exterior covered with veneer pressed brick. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, none. Owner, S. Goldman, 2008 Shattuck avenue, Berkeley. Location, east Shattuck south of Los Angeles. Will contain two and three room apartments with bath and wall bed. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 1 story, frame, $2,500. Architect, none. Owner, J. E. Cofer, 1738 Bridge street, Oakland. Location, east Bridge street south of Foothill Boulevard. Will contain three suites of three rooms and bath. Interior finish pine and redwood. Wall beds. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SEATTLE, WASH—Apartment house, 3 story and base, brick, $40,000. Architect, Warren H. Milner, Haight Bldg., Seattle. Owner, J. M. Brewster. Location, John street near Minor, covering an area of 60 by 130 feet. Will contain eleven apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning system. Bath room finished in tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick. Plans being prepared.

SAN FRANCISCO—Apartment house, 5 story and base, reinforced concrete, $100,000. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner, Dr. C. F. Buckley. Location, O'Farrell west of Larkin. Will contain a large number of two and three room apartments with wall beds and private baths. Interior finished in pine and elm with some hardwood floors and white enamel. Automatic elevator, steam heat, oil burning plant and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 4 story and base, reinforced concrete, $25,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Mr. Kingston. Location, Eddy street between Larkin and Post, covering an area of 25 by 120 feet. Will contain 24 apartments of two rooms and bath. Interior finish pine and elm panels with some hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Bath rooms imitation tile. Exterior faced with cement plaster. Wall beds. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, brick, $20,000. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, east Larkin north of Geary, covering an area of 34½ by 45 feet. Will contain one store and ten apartments of two rooms and bath. Interior finish pine and redwood. Steam heat and hot water supply. Bath rooms imitation tile. Wall beds. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures in and under advisement.

BANKS

Contracts Awarded.

STOCKTON, SAN JOAQUIN CO., CAL. Bank and offices, 6 story and base. Class A construction, $175,000. Architect, George William Kelham, Sharon Bldg., S. F. Owners, Farmers' and Merchants' National Bank of Stockton. Contractors, P. J. Walker Co., Monadnock Bldg., S. F. Contract taken on the percentage basis. Plans being prepared.

BATH HOUSES.

VALLEJO, SOLANO CO., CAL.—Bath house, 2 story and base, reinforced concrete, $50,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name not given. Note: The Vallejo Chamber of Commerce is now endeavoring to raise additional money and interest the city authorities in taking the project out of private hands and building a Municipal Bath House. If this is done the amount of money expended will be doubled. Further mention will be made of the work.

BONDS

SANTA ANA, ORANGE CO., CAL.—To repair bridges and roads destroyed by the recent floods, the Board of Supervisors have called an election for May 3rd, when the people will decide the question of issuing bonds of $150,000 to finance the proposed work. The bonds will be segregated into three issues as follows: For new bridges, $110,000; for repair of roads, $35,000 and for repairing bridges, $5,000. The most expensive bridge to be constructed will be the East Chapman street bridge, where the Santa Ana River is 600 feet wide.

CALEXICO, IMPERIAL CO., CAL.—Park bonds amounting to $30,000 were sold to the First National Bank of Calexico last week. The proceeds of the sale will be used in laying out of parks in this city.

CALEXICO, IMPERIAL CO., CAL.—Efforts are being made by the Farmers and Merchants' Club to have the Southern Pacific Company erect a new depot building in Calexico.

RIVERDALE, FRESNO CO., CAL.—The $25,000 Riverdale Joint Union

High School bonds have been sold by the County Supervisors, who will shortly commission an architect to prepare plans for the proposed building to be erected from the proceeds of the sale.

SACRAMENTO, CAL. — The State Board of Control has sold $1,000,000 of San Francisco seawall bonds to Byrne & McDonnell of San Francisco for a premium of $5,000.

MERCED MERCED CO., CAL.—Resolutions favoring a bond election for $150,000 for a new site, erection of a high school and purchasing the necessary equipment, were passed at a recent meeting of the Trustees of the Merced Union High School District. A date for the election will be set in the next few days.

LODI, SAN JOAQUIN CO., CAL. The Rev. Father Dollard is leader of a committee to raise funds for the erection of a $50,000 parochial school building. A site for the proposed structure has already been secured.

LODI, SAN JOAQUIN CO., CAL.—The building of a municipal bath house is being considered by the Trustees.

CALEXICO, IMPERIAL CO., CAL.—Bonds of $130,000 for water, sewer improvements, the building of a new fire house in Calexico and for the purchase of new fire apparatus, were sold by the City Trustees last week, and bids on the work will be called for shortly.

OXNARD, LOS ANGELES CO., CAL.—A special election has been called by the Board of Trustees of Oxnard School District for March 18th, to vote bonds in the sum of $51,000 for the erection of a new grammar school building. Plans for the proposed structure are being prepared by Los Angeles architects.

SANTA MARIA, SANTA BARBARA CO., CAL.—The water bond election held February 26th, carried and the water plant formerly owned by the Domestic Water Company will be taken over by the city.

PHOENIX ARIZ.—Santa Cruz County has been granted permission by the State Board of Contral to issue $21,500 of bonds for the purpose of buliding a bridge across the Santa Cruz River.

ALBUQUERQUE, N. M.—An election will be held April 4th for the purpose of voting on the question of bonding the city for $400,000 for a water supply plant, and a system of waterworks.

SAN FRANCISCO—The North Beach Promotion Association, and two other improvement clubs interested in the northern part of the city, will request the Mayor to call an election to vote on a bond issue of $5,000,000 for the erection of school buildings. It is understood that the expenditure would include a high school for the northern part of the city.

BRIDGES, DAMS AND HARBOR WORK

EUREKA, HUMBOLDT CO., CAL.—Bridge, reinforced concrete, $10,000. Engineer, County Surveyor Arthur J. Logan, Eureka. Owners, Humboldt County. County Surveyor Arthur J. Logan states that bids will be called for during the month of May for the construction of a concrete trestle bridge to be built across the Little River about 3 miles south of Trinidad.

OAKLAND CAL.—Tunnel Construction, $33,000. Engineer, County Surveyro, Oakland. Owners, Alameda County and Southern Pacific Co. Concluding the hearing by the State Railroad Commission in the chambers of the Board of Supervisors a few days ago in the matter of the construction of a subway crossing under the Southern Pacific Company's tracks immediately north of Niles, an arrangement was agreed to whereby the tunnel which is to cost $33,000 at the equally divided expense of the railroad company and county. The State Highway Commission is to pay for the upkeep of the property.

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and concrete. Cost not stated. Engineer, Arthur J. Logan, Eureka. Owners, Humboldt County. Bids will be received until March 15th at 4 p. m. for the construction of a steel approach span for the county highway bridge across the South Fork of Eel River at Dyerville, in Road District No. 2.

SAN FRANCISCO — Wharf repairs. Cost not stated. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be opened by the State Board of Harbor Commissioners on March 16th for repairs and additions to Pier No. 44. Plans and specifications can be secured from the Secretary's office. An official proposal appears in another column of this issue.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. April 3, 1916, for the construction of a reinforced concrete girder bridge across San Antonio Creek at Station No. 382460 on the line of the State Highway in the Fifth Road District; also for construction of a reinforced concrete girder bridge across San Antonio Creek at Station No. 399125, on the line of the State Highway in the Fifth Road District, in accordance with plans on file in the office of the County Clerk.

SANTA ANA, ORANGE CO., CAL.—Bridge, reinforced concrete, $11,500. Engineer, City Engineer Bonebrake, Santa Ana. Owners, City of Santa Ana. City Engineer Bonebrake at the last meeting of the City Trustees submitted an estimate cost for constructing a concrete bridge over the creek at Hannah street. Plans for the bridge will be ordered at a future meeting.

Contracts Awarded.

VENTURA, VENTURA CO., CAL.—Bridge steel, $15,881.55. Engineer, County Surveyor Ventura. Owners, Ventura County. Contractors, Clinton Bridge Co., Crocker Bldg., S. F. Furnishing steel for six spans in the Saticoy bridge. Contract price, $15,881.55.

CHURCHES

SANTA ANA, ORANGE CO., CAL.—Mausoleum, 1 story and base, reinforced concrete. Cost not stated. Architects, Elwing & Tedford, Trust and Savings Bldg., Santa Ana. Owner's name not given. Location, Fairhaven Cemetery. Will cover an area of 122 by 60 feet. Will contain a large number of crypts. Interior finished in stone and plaster. Art glass windows and ornamental iron. Exterior faced with granite. Plans complete and figures being taken.

COURT HOUSES.

PRESCOTT, ARIZ.—Court house, 2 story and base. Class C construction, $250,000. Architect, W. S. Bowman, Denver, Colo. Owners, Yavapai County. Architect W. S. Bowman has been selected to prepare plans for the new $250,000 court house to be erected at Prescott, Ariz., for Yavapai County Norman R. Coulter, San Francisco, was awarded $1,000 for first prize and F. J. De Longchamps of Reno, Nev., second prize of $500. The building will have a complete steel frame and will be faced with granite. Further mention will be made of the work.

FACTORIES AND WAREHOUSES

SACRAMENTO, CAL.—Warehouse, 1 story, frame, $1,200. Architect, none. Owner, E. P. Thomas, 825 Walnut street, Sacramento. Location, Walnut avenue. No interior finish. Exterior rustic. Plans complete and work to done by Day Labor.

Contracts Awarded.

RICHMOND, CONTRA COSTA CO., CAL.—Factory group, 1 and 2 story and base, reinforced concrete and brick, $751,000. Architects, Klipstein & Rathmann, St. Louis, Mo. Owners, General Roofing Mfg. Co. Contractors, Wimmer Contracting Co., St. Louis, Mo. Contract taken on percentage basas. Work started and foundations nearly complete.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Cold storage plant, 5 story and base, reinforced concrete and brick, $55,000. Architect's name not given. Owners, Western Meat Co. Contractors, MacDonald & Kahn, Rialto Bldg., S. F. Contract price, $53,000. Note: Contractors are now taking subfigures on the work.

FIRE REPORT

AUBURN, PLACER CO., CAL. — Auburn Hotel. Damage estimated at $10,000, all of which is covered by insurance.

FIRE HOUSES AND JAILS

REDWOOD CITY, SAN MATEO CO., CAL.—Jail, 2 story and base. Class A construction, $60,000. Architect, Will H. Toepke, 46 Kearny St., S. F. Owners, San Mateo County. Will contain separate department for male, female and juveniles, office of the sheriff and guard room. Interior finish pine and hardwood with walls of cement plaster. Steam heat, oil burning equipment Exterior faced with cement plaster or pressed brick. Plans being prepared. Bids to be called for in about three weeks.

GILROY SANTA CLARA CO., CAL.—Fire house, 2 story and base, reinforced concrete, $20,000. Architect, William Finder, Rea Bldg., San Jose. Owners, City of Gilroy. Will contain space for apparatus room, office and quarters for the men. Interior finish pine with some hardwood floors. Central heating system. Special plumbing, including showers. Exterior faced with cement plaster. Plans being prepared. Construction depends on the voting of a bond issue. Further mention will be made of the work.

SAN FRANCISCO — Detention Home hardware. Cost not stated. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San

Francisco. Bids will be opened by the Board of Public Works on March 22nd for furnishing the finish hardware in the new Detention Home. Plans can be secured from the architect.

Contracts Awarded.

SAN FRANCISCO—Jail fencing, $3,-028. Architect, City Department of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Contractor, James B. McSheehy, 1147 Dolores street, S. F. Contract price, $3,-028.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $8,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Mrs. Sophie Grannis. Location, east Shrader west of Fell. Will contain two modern flats of five and six rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Mantels tile and brick. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, Fred A. Roemer, 230 Golden Gate avenue, S. F. Owner, G. A. Muller, 3472 Lexington. Location, north 18th east of Lexington, covering an area of 25 by 62 feet. Will contain four modern flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Charles E. Reinhart, 17th and Kansas streets, S. F. Location, east 11th avenue north of Judah, covering an area of 25 by 56 feet. Will contain two flats of five and six rooms. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $9,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, D. Vatuone. Location, north Washington east of Mason. Will contain six flats of four, five and six rooms. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flat alteration, 2 story and base, frame, $6,000. Architect, Arthur S. Bugbee, 1684 Washington street, S. F. Owner, Dr. Richard F. Tomlinson. Location, east Divisadero south of Washington. Work will consist of altering the two-story frame dwelling into two modern flats. Work will include carpentry work, plastering, plumbing, electric work and painting. Exterior will be covered with cement plaster. Plans are complete and figures are being taken.

GARAGES.

OAKLAND, CAL.—Garage, 1 story and base, reinforced concrete, $5,000. Architect, none. Owner, MacKinnon & Church, 1715 Telegraph avenue, Oakland. Location, west Broadway south of 38th street. Designed for a commercial garage and will contain, besides the storage space, wash rooms, machine shop and office. Interior rough. Concrete floor. Special gasoline storage tank. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Yerba Buena Water Supply.

A serious situation confronts the naval authorities on account of the cessation of the present system of supplying water at the naval training station at Yerba Buena Island, in San Francisco Bay. For some years the government has had a contract with the Southern Pacific Railway Company by which a pipe line extending from one of the piers of that company, has supplied the water for the station. This contract has expired, and the company has notified that by January 1 next it will be necessary for the Navy Department to make some other arrangement. It is estimated by the bureau of yards and docks of the Navy Department that an appropriation of about $33,000 will be required under the item of public works to furnish a new supply, and it is desired by the Navy Department that this sum be made immediately available. If this provision is not made by Congress it will be necessary to abandon the station. In a report made by the commandant of the station it is stated that it will not be practicable to extend the present pipe line to another point, and the bureau estimate, which has been approved by the Secretary of the Navy, contemplates a new source of supply approaching the island from an entirely different direction.

Philippine Demand for Cheap Fireproof Roofing.

[J. F. Bloomer, correspondent, Manila, December 30.]

The problem of a cheap roofing material that shall be fireproof and suitable to replace nipa and grass, the roofing materials of the poor in the Philippine Islands, has not yet been solved. There are many acres of short fibre asbestos in the islands, but as yet no machine or process has been obtained for turning this raw material, which is in very accessible places, into suitable roofing.

A local cement factory turns out a good product, and the asbestos beds are on the same island. Modern machinery to work the combined material into required lengths and thicknesses, as well as the process for making the combination, is wanted.

Salt Lake City, Utah, Cases.

The contract for installing eight steel cases in the U. S. post office building at Salt Lake City, Utah, has been awarded to the Berger Mfg. Co., Canton, Ohio, at $2,016.50; time 100 days.

Phoenix, Ariz., Cases.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for supplying steel cases for the U. S post office at Phoenix, Ariz.:

Crown Metal Construction Co., Jamestown, N. Y., $424; 75 days.

Watson Mfg. Co., Jamestown, N. Y., $497; 80 days.

Art Metal Construction Co., Jamestown, N. Y., $570.09; 55 days.

H. H. Shults Co., Gowanda, N. Y., $375; 90 days.

Van Dorn Iron Works Co., Cleveland, Ohio, $576.70; 90 days.

Keyless Lock Co., Indianapolis, Ind., $400; 60 days.

General Fireproofing Co., Washington, D. C., $541; 90 days.

Berger Mfg. Co., Canton, Ohio, $566; 90 days.

Steel Fixture Mfg. Co., Topeka, Kan., $456; 90 days.

Leupp Indian School Building.

The following bids were received by the Commissioner of Indian Affairs, Washington, D. C. for constructing additions to stone dormitory at the Leupp Indian School, Ariz.:

Herman F. Zillmer, Albuquerque, N. Mex., $19,672; 200 days.

N. P. Olson Construction Co., Flagstaff, Ariz., $23,500; 120 days.

Thomas W. Hall, Farmington, N. Mex., $18,740; 180 days.

Houghton Smith, Des Moines, Iowa, $22,999; 140 days; deduct $500 if allowed 180 days for the construction.

W. D. Lovell, Minneapolis, Miss., $17,600; 20 days.

Tender Sequoia, Repairs.

The following bids were received by the light house inspector, 18th district, San Francisco, Cal., for docking and repairing light house tender Sequoia:

Item 1, necessary items; 2, optional items.

United Engineering Works, San Francisco, Cal., item 1, $3,803.95; 2, $3,-753.83; 21 days.

W. G. Tibbetts, San Francisco, Cal., item 1, $2,421.70; 2, $3,084.70; time not stated.

Hanlon Dry Dock & Shipbuilding Co., Oakland, Cal., item 1, $2,263.50; 2, $2,-952.65; 21 days.

Muir & Symon, Inc., San Francisco, Cal., item 1, $2,612.50; 2, $5,102; time not stated.

Moore & Scott Iron Works, San Francisco, Cal., item 1, $2,269; 2, $2,-532.65; 30 days; accepted.

Mare Island Navy Yard, Cal., item 1, $2,356; 2, $3,322; 25 days.

New Naval Experimental Aeroplane.

The bureau of construction and repair of the Navy Department is directing the construction at the Washington navy yard of an experimental aeroplane, embodying as nearly as practicable the known requirements of the service. The design of this machine was prepared by Naval Constructor H. C. Richardson, and the details follow the line of the report made by the officers of the naval air service who determine the naval requirements in that particular. It has been the desire of the naval air service and the efforts of the department have been bent to the development of a type of machine primarily for naval use—that is, one capable of operating with the fleet and for this reason, one which can be started from a vessel of war, can be picked by the same or similar vessel, and can light on and start from the water even under adverse weather conditions. Contracts have been placed with practically all builders who submit designs which give promise of conforming to these requirements, but in most cases difficulties are being en-

countered in obtaining deliveries under these contracts.

Army Aviation School Site.

The commission of Army officers appointed under the law of March 4 last has made a report in regard to the site of an Army aviation school. It recommended one on North Island, where the signal corps aviation school is now located, provided title could be acquired; if not, then that a site located at Coronado Heights, a tract containing approximately 616 acres, be acquired. In the former instance it has been found that the question of title can only be determined after prolonged litigation and for that reason the War Department has approved the second choice, the Coronado Heights location, which can be purchased at an estimated cost of $300,000. This item, upon the recommendation of the Secretary of War, will be included in the next Army appropriation bill. In making its report of sites which are available for the purpose contemplated, the commission took into consideration the elements of climate, geographic location, and transportation facilities.

SAN FRANCISCO—Air compressors. Cost not stated. Engineer, U. S. Light House Service, Customs House Bldg., S. F. Owners, United States Government. Bids will be received until March 14th for furnishing the U. S. Light House Service with two direct-connected, horizontal, 4-cycle distillate engine-driven air compressors

HALLS AND SOCIETY BUILDINGS

MARTINEZ, CONTRA COSTA CO., CAL.—Club house, 1 story, frame. Cost not stated. Architect, James T. Narbett, 704 Maedonald avenue, Richmond. Owners, Social enter Club, Rev. C. A. Stone. Location, Estudillo avenue. Will contain social rooms, reading room and gymnasium. Interior finish pine with maple floor. Central heating system and open fire place. Exterior covered with rustic and cement plaster. Plans being prepared.

Contracts Awarded.

PORTLAND, ORE.—Municipal auditorium. Class A construction, $320,262. Architect's name not given. Owners, City of Portland. Contractor, Hans Pederson, Alaska Bldg., Seattle, Wash. Contract price, $320,262.

HOSPITALS

SAN FRANCISCO—Hospital wiring, $25,000. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. Four bids were received Wednesday by the Board of Public Works for the electric work in connection with the construction of the southeast wing of the San Francisco Hospital. Butte Electric and Engineering Co. presented the low bid on both propositions No. 1 and No. 2 as follows, No. 1, $25,728, No. 2, $24,853. Other bids received appear below: Ne Page-McKenny Electric Co., No. 1, $26,-987, No. 2, $26,187; McFell Electric Co., No. 1, $29,350, No. 2, $28,370; F. E. Newberry Electric Co., No. 1, $26,900, No. 2, $25,325.

SAN FRANCISCO — Bacteriological ward, 1 story, reinforced concrete, $4,-000. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Frank M. Garden Co., 251 Kearny street, presented the low bid for the general construction of the bacteriological ward at the Letterman General Hospital at the Presidio at $2,739 and will probably be awarded the contract. A. Wagner was low on the plumbing at $110 and McFell Electric Co. low on the electric wiring and electric fixtures at $558 for the wiring and $45 for the fixtures. These figures have been forwarded to Washington, D. C., for approval and for formal award.

STOCKTON, SAN JOAQUIN CO., CAL. —Hospital cottages, 2, 1 story and base, reinforced concrete and frame, $30,000 each. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received on March 27th for the construction of a convelescent building for females and for a cottage for the males. Interior finish pine and redwood. Central heating system, probably steam heat. Hospital plumbing. Exteriors covered with cement plaster. Plans complete and figures being taken. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

BERELEY, ALAMEDA CO., CAL.—Dispensary, 1 story, frame. Cost not stated. Architect, Charles H. Cheney, Crocker Bldg., S. F. Owners, City of Berkeley. Bids are now being taken for a one story dispensary to be located at the corner of 6th and University avenue. Interior finish pine. Central heating system. Hardwood floors. Exterior covered with cement plaster. Plans can be secured from the architect.

TALMAGE, MENDOCINO CO., CAL.—Elevator and Dumb waiter work. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received until March 28th at 12 noon for the completion of the electric elevator and dumb waiter work at the Mendocino State Hospital. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

HOTELS

STOCKTON, SAN JOAQUIN CO., CAL. —Hotel, 3 story and base, brick and concrete, $18,000. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owners, Giovani & Gattorna. Location, Commerce street between Market and Washington. Will contain office, lobby and guest rooms. Interior finish pine. Steam heat and hot water supply. Bath rooms composition floors. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures being taken.

IRRIGATION PROJECTS

COLUSA, COLUSA CO., CAL.—Irrigation lateral. Cost not stated. Engineer's name not given. Owners, Spalding Co. Contractor, W. T. Wilkins, College City Cost not stated.

LIBRARIES

GRASS VALLEY, NEVADA CO., CAL. —Library, 1 story and base, brick, $15,000. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners Town of Grass Valley. Will contain one main reading room and lecture hall. Interior finish pine and hardwood veneer. Hardwood floors. Furnace heat. Metal book stacks. Exterior faced with pressed brick. Plans complete and figures being taken.

RESIDENCES.

SAN FRANISCO—Residences, 4, 2 story and base, frame, $3,500 each. Architect, none. Owner, L. B. Ham, 274 25th avenue, S. F. Location, northeast corner of 20th avenue and Anza street. Each house will contain seven rooms, bath and basement garage. Interiors will be finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 and 3 story and base, frame, $18,000. Architect, Louis H. Upton, 111 Ellis street, S. . Owner's name not given. Location, Vallejo street. Will contain eighteen rooms, four baths, sleeping porch and conservatory. Separate garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Hot water heating system, hot water circulating system and vacuum cleaning. Oil burning plant. Bath rooms tile and equipped with showers. Open fire places and tile and marble mantels. Exterior faced with cement plaster. ormal gardens. Large roof garden. Plans being prepared.

SAN FRANCISCO — Residence, 1½ story and base, frame, $2,000. Architect, none. Owner, Victor Gullmes, 1828 Castro street, S. F. Location, south Geneva east of Athens. Will contain six rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $9,000. Architect, Carl Geilfuss, 46 Kearny street, S. F. Owner, Annie M. Janssen. Location, west Guerrero south of 25th. Will contain two residences of seven rooms and bath. Interior finished in pine, red gum and white enamel. Hardwood floors. Open fire places and furnace heat. Two separate furnaces. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans prepared and figures to be taken at once.

SAN FRANCISCO — Residence, 2 story and base, frame, $7,900. Architect, none. Owner, Charles C. W. Gompertz, 503 Market street. Location, north Green east of Broderick. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cemept plaster and brick veneer. Plans complete and work to be done by Day Labor.

OAKLAND CAL.—Residence 1 story and base, log construction, $10,000. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, Mrs. Nelson Mortimer Percy. Location, Fernwood. Will contain ten rooms, three baths and sleeping porch Interior finish pine and redwood. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water system. Bath rooms finished in tile.

Exterior rough logs. Plans complete and work to be done by Day Labor and subcontract.

OAKLAND, CAL.—Residence, 2 story and base, frame, $8,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, W. Hawley. Location, Thousand Oaks Tract. Will contain nine rooms, two baths and sleeping porches. Interior finish pine and redwood with hardwood floors throughout. Furnace heat and open fire places. Mantels brick and stone. Bath rooms tile. Automatic water heater. Exterior logs. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. J. Pfrang 5487 Claremont street, Oakland. Location, southwest corner of Hudson and Lawton. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. H. T. Marrinner. Location, Northbrae. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, W. L. Brodrick, 1201 Colusa avenue, Berkeley. Owner, Charles A. McKelveyby. Location, south San Benito Road east of Marin avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 1 story and base, frame, $2,000 each. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, Noble avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, E. B. Spitler, 815 Oxford street, Berkeley. Location, east Contra Costa north of Los Angeles. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, S. A. Isakson, 1464 55th avenue, Oakland. Location, east Patterson north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, W. C. Morsen, 534 22nd street, Oakland. Location, west Dohr south of Oregon. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, E. M. Bertheaud, 1027 Peralta avenue, Albany. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $6,000. Architect, none. Owner, R. Stuart, 2004 Pacific avenue, Alameda. Location, west Arch street south of Cedar. Will contain eleven rooms, two baths and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, E. L. Higgins, 250 Miles avenue, Oakland. Location, east Thomas north of Napa. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire place. Mantels tile and brick. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, John D. Schultz, 4416 East 16th street, Oakland. Location, north Bromley east of 62nd. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, M. P. Brash. Location, Indian Rock avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared. Will be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, W. J. Charles, P. O. Box 291, San Francisco. Location, west Curtis north of Hearst. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

BERKELEY ALAMEDA CO., CAL.—residence, 1 story and base, frame, $2,000. Architect, none. Owner Arvid E. Olson, 610 14th street, Oakland. Location, north Burnett east of San Pablo. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

LODI, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $8,000. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, Dr. J. E. Nelson. Will contain eight rooms and doctor's office, sleeping porch and garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $15,000. Architect, F. H. Reimers, 2145 Shattuck avenue, Berkeley. Owner, F. W. Butterick. Location, Tuxedo Park. Will contain twelve rooms, three baths and sleeping porch. A separate garage will be erected on the property. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

REDWOOD CITY, SAN MATEO CO., CAL.—Residence alterations and addition, frame, $20,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owner, Mrs. M. A. Harris. Work will consist of new interior finish, hardwood and white enamel. Hardwood floors, open fire places, painting, plastering and plumbing. Some exterior work will also be included. Plans are complete and work has been started by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owners, Dow and Cannon, Fresno. Location, Hazelwood Addition. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, Reese and Atkins, 743 Weldon street Fresno. Location, Alta Vista Addition. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

DECOTO, ALAMEDA CO., CAL.—Residences, 20, 1 story, frame. Cost not stated. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner's name not given. Each house will contain four and five rooms and bath. Interior finish redwood. Open fire places. Mantels tile. Exteriors

PROPOSALS FOR AIR COMPRESSORS.

COMPRESSORS, AIR—Sealed proposals will be opened by the light house inspector, San Francisco, Cal., at **2 o'clock p. m. March 14, 1916**, for furnishing two direct-connected horizontal, 4-cycle, distillate engine-driven air compressors for Point Conception Light Station, Cal. Information upon application to above office.

NOTICE TO CONTRACTORS.

NOTICE is hereby given that sealed bids will be received by the Board of Trustees of the Red Bluff Union High School District, Tehama County, California, at the office of the Clerk of said Board of Trustees, at the Elmore Pharmacy, in Red Bluff California, until **1 o'clock p. m. March 28th 1916**, for the erection and completion of a high school building to be built at Red Bluff, California, according to plans and specifications prepared for the same by W. H. Weeks, the authorized architect, of 75 Post street, San Francisco, California.

Bids will be received separately for furnishing and installing the heating and ventilating, vacuum cleaning, electric work, roofing, cork carpet, window shades and program clock systems; and bids will also be received for the general contract with alternate propositions as specially set forth in General Specifications.

Plans and specifications can be seen durin office hours at the office of the Clerk of said Board of Trustees at Red Bluff or at the office of the Architect, W. H. Weeks, 75 Post street, San Francisco, California.

A cash deposit of Twenty Dollars will be required from all prospective bidders on all copies of plans and specifications loaned out, as a guarantee of good faith and of the return of the same.

All bids should be presented on blank forms furnished by the Board of Trustees which may be procured at the office of the Clerk of the Board, or at the office of the Architect, W. H. Weeks.

Each bid must be accompanied by a certified check on some responsible California Bank in a sum not less than five (5) per cent of the amount bid, made payable to F. R. Eldredge Clerk of said Board of Trustees, as a guaranty of good faith that the party to whom the contract may be awarded will within ten days, enter into the necessary agreement and bonds for the faithful performance of said work, and in case the successful bidder, to whom the contract is awarded fails or refuses to enter into said agreement and bonds, said check will be forfeited to the said High School District in the manner provided by law.

Each bid must be enclosed in a sealed envelope and addressed to F. R. Eldredge, Clerk of the Board of Trustees at Red Bluff, California, and endorsed "Proposals for Buliding High School Building," or for furnishing and installing the different systems mentioned above.

The Board of Trustees expressly reserves the right to reject any and all bids.

BOARD OF TRUSTEES OF RED BLUFF UNION HIGH SCHOOL DISTRICT.
By R. L. DOUGLAS, President.
By F. R. Eldredge, Clerk.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednesday, March 29, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor and doing the work required for the complete construction and erection of the "Bank Screen and Railing," State Treasurer's Office, State Capitol Building, Sacramento, California**, in accordance with the plans and specifications therefore, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Ten ($10.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked, on the envelope: "Proposal for 'Bank Screen and Railing,' State Treasurer's Office, State Capitol Building, Sacramento, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, March 27, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials and labor and doing the work required for the complete construction and erection of the "Convalescent Building for Females and the "Cottage for Males," Stockton State Hospital, Stockton, California**, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering. Separate bids will be received for each building, and a contract for the construction and erection of both buildings will be awarded to the bidder submitting the lowest combined bid for the two buildings.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately in the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Convalescent Building for Females' and the 'Cottage for Males,' Stockton State Hospital, Stockton, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock noon, Tuesday, March 28, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials and labor and doing the work required to complete the Electric Elevators (Dumbwaiters) for the Mendocino State Hospital, Talmage, California**, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Ten ($10.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Electric Elevator (Dumbwaiters)' for the Mendocino State Hospital, Talmage, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

BIDS WANTED.

BIDS are wanted by **March 7th, 1916**, for the removal of all the pipe and fittings in eight palaces, Machinery Hall and five courts at the Exposition.

PACIFIC PIPE CO.,
Main and Howard Sts.,
San Francisco.

CALL FOR BIDS.

SEALED PROPOSALS will be received by the Lighthouse Inspector, San Francisco, Cal., **until March 14, 1916**, for furnishing two direct-connected, horizontal, 4-cycle, distillate engine-driven air compressors for Point Conception Light Station, Cal. Further information may be obtained on appplication to the lighthouse inspector, San Francisco. (Give No. 2999, Air Compressors.)

NOTICE TO CONTRACTORS.

Office of the Board of State Harbor Commissioners, Union Depot and Ferry House, San Francisco, California, March 4, 1916.

SEALED PROPOSALS or bids will be received at this office **at or prior to 11 o'clock A. M., on Thursday, March 16, 1916, for furnishing materials and making repairs and additions to Pier No. 44** on the waterfront of the City and County of San Francisco, in accordance with the plans and specifications prepared therefor by the Chief Engineer of the Board and adopted by the Board February 3, 1916, and on file in this office, to which special reference is hereby made.

The materials to be used in this work shall consist of the requisite quantities of Portland cement and creosoted piles (which will be furnished to the Contractor by the Board), yellow fir lumber, redwood lumber, cedar lumber, sand, castings, structural steel, rods, bolts, spikes, car springs, rails and fastenings, roofing and painters' materials, glass, window frames, etc. All materials used must be of the best of their respective kinds if not especially specified herein. All materials used in the structures will be subjected to a rigid examination and test, and if found defective, under size, unsuitable or not as specified, will be condemned and must be immediately removed from the work by the Contractor at his expense.

No bid will be received unless it is made on a blank form furnished from this office, and is accompanied by a certified check for an amount equal to Five (5) per cent of the aggregate amount of the proposal, to be made payable to the Secretary of the Board, conditioned that if the proposal is accepted and the contract awarded and if the bidder shall fail or neglect to execute a contract and give the bond required within six (6) days after the award is made, in that case the said sum mentioned in said check shall be deemed liquidated damages for such failure and neglect and shall be paid into the San Francisco Harbor Improvement Fund.

The bond required to be not less than one-half of the total amount of the bid, with two or more sureties, to be approved by the Board of State Harbor Commissioners, and conditioned for the faithful performance by the contractor of all the terms and conditions of said contract according to the true intent and meaning thereof and to the satisfaction of the Board, and said bond shall also be effective as provided in an Act approved May 1, 1911, for the protection of material men, mechanics and laborers.

Bids will not be considered by the Board unless delivered to the Secretary or to the Assistant Secretary at the office of the Secretary, Room No. 17, Union Depot and Ferry House, at or prior to **11 o'clock A. M. on Thursday, March 16, 1916**, at which time and place the bids will be opened.

The Board reserves the right to reject any or all bids if deemed for the best interests of the State.

Bidders are invited to be present at the opening of the bids.

Plans and specifications of this work to be had at Room 18, Union Depot and

Ferry House, upon depositing $20.00 for same, which will be returned on return of plans and specifications.

Bidders are requested to mark envelope containing bid: "Bid for Repairing Pier No. 44."

J. J. DWYER,
THOMAS S. WILLIAMS,
J.H. McCALLUM,
Board of State Harbor Commissioners,
JEROME NEWMAN,
Chief Engineer,
LEO V. MERLE, JR.,
Secretary. (*)

PROPOSALS FOR VESSELS.

CHARTERING VESSELS — Sealed proposals will be opened by the inspector, Coast and Geodetic Survey, 202 Burke Building, Seattle, Wash., at **10 o'clock a. m. March 10, 1916,** for charter of two power vessels of about 100 feet in length and four launches of about 50 feet for use of wire drag parties in Southeast Alaska. Information and forms of Proposal may be had by applying to above address.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Malta, Mont., until **2 o'clock p. m. March 15, 1916,** for earthwork and structures, Bowdoin canal, Milk River project, involving about 68,000 cubic yards of ecavation, 390 cubic yards of reinforced concrete, 720 square yards of paving, the placing of 17,000 pounds of reinforcement steel, and the placing in wooden structures of about 50,000 feet, board measure, of lumber. The work is located about seven miles east of Malta, Mont., near Strater and Bowdoin stations on the Great Northern Railway. For particulars address the U. S. Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. W. A. RYAN, acting director.

PROPOSALS FOR EARTH WORK.

EARTHWORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Fort Laramie, Wyo., until **2 o'clock p. m.** March 10, 1916, for earthwork on about 5½ miles of main canal, Fort Laramie unit, North Platte project, Nehraska-Wyoming, involving the excavation of approximately 811,000 cubic yards of material. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Laramie, Wyo. W. A. RYAN, acting director.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Supervising Architect's Office, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. March 22, 1916,** for the construction complete (including mechanical equipment and approaches), of the U. S. post office at Aberdeen, Wash. Drawings and specifications may be obtained from the custodian of site at Aberdeen, Wash., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

DEPARTMENT OF THE INTERIOR, U. S. INDIAN SERVICE.

PROPOSALS FOR SCHOOL BUILDINGS ROUND VALLEY INDIAN SCHOOL.

COVELO, CAL., Feb. 5, 1916

SEALED proposals, plainly marked on the outside of the sealed envelope: "Proposals for school buildings," and addressed to the Superintendent of the Round Valley Indian School, Covelo, California will be received until **9:00 o'clock a. m., March 9, 1916,** and then opened, for furnishing all the labor and materials required in the construction and completion of one frame day school building No. 63, at Yokaia Indian Rancheria, seven miles southeast of Ukiah, California; one frame employees' quarters No. 87, one frame day school building No. 83, and three frame outhouses No. 15, for Ukiah Day School, near Ukiah, California, in strict accordance with the drawings and specifications furnished therefor by the Office of Indian Affairs, and which may be examined at the Post Office, Ukiah, California, U S. Indian Warehouse, 608 Howard street, San Francisco, and at the Round Valley Indian School.

Bids must be submitted in accordance with the form attached to the plans and specifications. The right is reserved to reject any and all bids.

E. A. HUTCHISON,
Superintendent. (*)

ARGUE PORTERVILLE PAVING DISPUTE.

Whether the temporary writ of injunction, to prevent the Porterville trustees from hearing protests against the paying of $92,592, for paving work done by the Federal Construction Company at Porterville shall be made permanent, will be decided within the next few days by Judge W. B. Wallace at Visalia. The Federal Construction Company alleges a conspiracy to defeat payment, and adds that two of the trustees are disqualified from hearing the protests as they are property owners on the streets on which protests have been filed. The paving company says it would avail them nothing to defend themselves at such a hearing. Judge Wallace announced that he would give a decision on the temporary writ within a week.—Hanford Sentinel.

TO EXTEND PENINSULA RAILROAD SEVEN MILES.

PORT ANGELES, WN.—Announcement has been made that the Seattle, Port Angeles & Western Railroad will extend its tracks a distance of seven miles westward into the Twin river and Deer creek sections and later into the Clallam Bay. C. C. Donovan, the Seattle engineer in charge of the work, will start surveys at once. C. J. Erickson, Downs block, contractor, who built the original unit of the road, is interested in the work.

ESPEE READY TO BUILD ROAD.

COLUSA, Cal.—News has been received here that if the Supreme Court grants the petition of the Southern Pacific for a rehearing of the case in which an appeal was made from the judgment given by a jury in the Glenn County Superior Court to Charles Glenn in the condemnation suit of the Colusa and Hamilton Railroad for a right of way through his land which the railroad alleges was excessive, construction work north of Colusa will be resumed this spring and the roadbed from Harrington to Hamilton will be ballasted and passenger and freight trains operated.

It is reported that the right of way through the Glenn ranch must be cleared and the road completed to Hamilton before the ballast work can be started, as the railroad to save a long haul will begin ballasting at the Hamilton end and use gravel from the pit near Orland—Colusa Daily Sun.

ASK BIG SUM FOR LAKE CANAL.

SEATTLE, Wn.—Lieut. Col. J. B. Cavanaugh, Burke Bldg., chief of the local bureau of U. S. Engineers, has been advised that General D. C. Kingman of the Washington bureau has recommended the appropriation of $657,000 for the completion of the Lake Washington Canal. This sum will be used for the dredging of the channel from the Locks at the Narrows to deep water a distance of about a mile and for revetting the canal banks between the head of Salmon Bay and Lake Union and the north bank between Lake Union and Lake Washington. Inasmuch as the chief of the bureau has urged the necessity of passing this appropriation at this session, the local office is confident of favorable action by congress. With the passage of the bill work will be started on the concreting of the canal banks. An enormous amount of piling will enter into this work.

PLUMBING AND HEATING NEEDS AT HANKOW.

[Consul General Edwin S. Cunningham, Hankow, China, Jan. 10.]

There are at present not more than three buildings in Hankow in which heating plants are installed, but owners of a number of the older buildings would be glad to install modern plants if they were convinced that it could be done in a satisfactory manner. To get this business it will not be sufficient for the American manufacturer to establish an agency for the sale of heating plants and plumbing material. The agency should employ a competent and experienced American or European for the purpose of installing the heating plants in such a manner that they will be efficient.

Plumbing should be handled by the same firm, and in this there would be considerable competition, as already one Shanghai firm has a branch here, but there is no reason why the American business should not be developed more extensively than it is, if an experienced man is placed in charge.

New Buildings Offer Trade Possibilities.

A firm of architects has furnished an incomplete list of the more important buildings either in the course of erection or contemplated, with the approximate cost of each. It is believed that heating apparatus could be installed if the matter were presented by an efficient representative. The buildings, with cost estimated in United States currency, are: Hemmings & Berkley Building, $60,000; Hongkong and Shanghai Banking Corporation buildings, $360,000; Chinese Post Office Building, $50,000; Chinese Telephone Exchange Building, $66,000; British municipal school building, $9,000; Bank of Communications' Building, $50,000.

The Liddell Building has just been completed. Other buildings proposed and considered certain to be built, but not definitely decided upon, are: A Chinese customhouse; two new buildings of Butterfield & Swire, a British shipping concern; and a hotel to cost $240,000.

At the British Municipal Council Building, officials are considering the installation of new sanitation, and one firm has tendered for this at $3,300 gold.

An American's View of the Field.

An American, for many years a resident of Hankow, has said regarding the possibilities of steam and hot water heating here:

Large buildings are now being constructed in the foreign concessions, and plants more or less expensive are being installed. The Chinese as they construct larger buildings will employ foreign architects more or less, and

will imitate them where they do not employ, and the persons ready to supply at once, what is required, at the right price, will get orders in this line.

A large trade is developing in plumbing and plumbers' supplies. A little shop started in Shanghai on a shoe string, by a man who was never a mechanic in his life, does a large business and has extended its trade to Hankow, where it is doing about $32,500 per annum, with large profits. The business is about 15 years old, and the owner is now arranging to form a corporation and to put in the good will at $54,250. This company markets practically entirely British goods. If it be true that American goods are equal to the best in quality and appearance, and that they can be sold in this market to compete with any others, then all that is wanted is the right kind of a representative, a practical man, to work up the business.

Such a business could also carry stoves, ranges, and steam heating and fitting apparatus.

[A list of firms in Hankow prepared to handle plumbing material may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 72,540.]

STATE WATER COMMISSION.

The Cheney Slough Irrigation Company of Colusa, has applied to the State Water Commission for permission to appropriate 200 second feet of water, or 2000 miner's inches from the Sacramento River. A pumping plant of three or four separate units is proposed to lift the water from the river, pumping into a main canal 10 miles in length. The estimated cost of the plant is $50,000.

The Atascadero Mutual Water Company of Atascadero, San Luis Obispo county has applied to the State Water Commission for permission to appropriate 30 second feet of 1200 miner's inches from the Salinas River for irrigation and municipal purposes. The plans call for three pumping plants each capable of seven million gallons a day, pumpage to be direct from wells in the bed of the river into the mains. There is a contemplated storage reservoir to hold 60,000 acre feet with dams of rock fill construction to impound the water. In addition to furnishing a municipal supply, it is intended to irrigate some 23,000 acres of land. The estimated cost of the plant is fixed at $750,000.

REQUESTS FOR CATALOGUES.

Commercial Attache Julean H. Arnold, at Peking, has recently written the Bureau of Foreign & Domestic Commerce as follows:

In regard to the commercial library which I have established in connection with this office, I have to state that while many American manufacturers favored my office with catalogues of their products, yet the number and variety are smaller than I had hoped. I am still without many catalogues which would be of great service in extending American trade interests in China. I am constantly in receipt of inquiries from Chinese and others for American connections and always find it desirable to refer these inquirers to the catalogues in my library, with a suggestion that they address the persons or firms represented by the catalogues covering the lines of goods in which they are interested. I have set aside a special room in my offices for a commercial library, and the catalogues and other trade literature which are received are catalogued, labeled, and arranged in an orderly manner in glass cases, readily accessible to the public, and the public of Peking are being made acquainted with the fact that the library is maintained and that they are cordially invited to visit it. As soon as I have a full line of catalogues and directories I plan to issue a printed catalogue of the publications in the library for distribution among those who would find the library of interest and possible use.

Chester B. Loomis, M. E.
CONSULTING ENGINEER
Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing
Reports.
419 Wilcox Building
Los Angeles, California

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Attractive Catalog Issued By Eljer.

New Method of Displaying Line of Plumbing Goods is Greatly Appreciated by Architects.

Something new and unique in the way of plumbing goods' catalogue has just been issued by The Eljer Co. of Cameron, West Virginia, represented in San Francisco by E. Heymans, Monadnock Building.

The catalogue consists of but two pages and an attractive cover. The pages are original photographic prints showing in small size prints the complete line of fixtures manufactured by the Eljer Co. This method of presentation enables the prospective buyer or architect to make a comparison of the various fixtures without turning pages or consulting a catalogue of many pages.

Accompanying the catalogue are several sheets of descriptive matter and prices. Mr. Heyman is receiving many compliments on the appearance and convenience of the new catalogue.

APPROVES PLANS FOR DRAINAGE OF 38,000 ACRES, BUTTE COUNTY.

SACRAMENTO, Cal.—The state reclamation board has approved plans for the drainage of thirty-eight thousand acres in Butte county in preparation for opening the land for cultivation.

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.
Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
Write for descriptive folder.
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San Francisco Depot Key Route Ferry

FAST ELECTRIC TRAINS TO Sacramento
LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. F.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—4, 2 story and base, frame, $3,500 each. San Francisco. Architect, none. Owner, L. B. Ham, 274 25th avenue, S. F. Location, northeast corner of 20th avenue and Anza street. Each house will contain seven rooms, bath and basement garage. Interiors will be finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENE—2 and 3 story and base, frame, $18,000. San Francisco. Architect, Louis M. Upton, 111 Ellis street, S. F. Owner's name not given. Location, Vallejo street. Will contain eighteen rooms, four baths, sleeping porch and conservatory. Separate garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Hot water heating system, hot water circulating system and vacuum cleaning. Oil burning plant. Bath rooms tile and equipped with showers. Open fire places and tile and marble mantels. Exterior faced with cement plaster. Formal gardens. Large roof garden. Plans being prepared.

RESIDENCE—1½ story and base, frame, $2,000. San Francisco. Architect, none. Owner, Victor Gullmes, 1828 Castro street, S. F. Location, south Geneva east of Athens. Will contain six rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $9,000. San Francisco. Architect, Carl Geilfuss, 46 Kearny street, S. F. Owner, Annie M. Janssen. Location, west Guerrero south of 25th. Will contain two residences of seven rooms and bath. Interior finish pine, red gum and white enamel. Hardwood floors. Open fire places and furnace heat. Two separate furnaces. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans prepared and figures to be taken at once.

RESIDENCE — 2 story and base, frame, $7,900. San Francisco. Architect, none. Owner, Charles C. W. Gompertz, 503 Market street. Location, north Green east of Broderick. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 story and base. Class A construction. Cost not stated. San Francisco. Architect Will H. Toepke, 46 Kearny street, S. F. Owners, Doe Estate. Mr. Phillips of the Doe Estate Co., owners of the gore corner at Market, Hayes and 9th streets, states that a Class A building of not less than five stories will be erected on the property before the end of the year. The building will probably occupy only a portion of the lot, having a Market street frontage of 160 feet and 155 feet on Hayes street. There will be stores on the first floor and a number of apartments on the upper floors. The present condition of the steel market is probably the only thing holding back the immediate improvement of the property. While the owners would not give the name of their architect, they admit that plans are under way. Will H. Toepke, 46 Kearny street, will probably be named as the architect.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, none. Owner, Walker R. Props, 1301 Gough street, S. F. Location, southwest corner of Jackson and Leavenworth, covering an area of 43 by 56 feet. Will contain fifteen suites of two and three rooms. Interior finish pine with some elm panels and hardwood floors. Wall beds and private baths. Steam heat and oil burning system. Hot water supply. Composition in bath rooms. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 and 7 story and base. Class A construction, $200,000 or more. San Francisco. Architect, T. Patterson Ross, 310 California street, S. F. Owner, W. F. Chipman. Location, southeast corner Powell and Sacramento. Only preliminary plans for this work have been prepared and a complete description can not be given at this time. The building will be designed for exclusive apartments and will contain suites of from five to twelve rooms. Construction will be fireproof. Further mention will be made of the work.

APARTMENT HOUSE AND STORES—3 story and base. Class C construction, $30,000. San Francisco. Architect, William Wakeman. Owner, Andrew Nelson, Fulton & Gough streets, S. F. Location, northwest corner of Folsom and Ninth, covering an area of 72 by 100 feet. Will contain four stores besides the entrance on the first floor. Upper floors arranged for 22 suites of two and three rooms. Interior finish pine and elm panels. Some hardwood floors. Steam heat, hot water supply and oil burning equipment. Wall beds. Patent store fronts. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

APARTMENT HOUSES—2, 3 story and base, frame and brick. Cost not stated. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, northwest corner of Post and Octavia, covering an area of 50 by 120 feet. Each will contain fifteen suites of two and three rooms. Steam heat, oil burning equipment and hot water system. Interior finish pine, hardwood and white enamel. Hardwood floors. Wall beds. Bath rooms tile. Exterior covered with veneer pressed brick. Plans complete and figures being taken.

FLATS—3 story and base, frame, $9,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, D. Vatuone. Location, north Washington east of Mason. Will contain six flats of four, five and six rooms. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $8,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Mrs. Sophie Grannis. Location, east Shrader west of Fell. Will contain two modern flats of five and six rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Mantels tile and brick. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, Fred A. Roemer, 230 Golden Gate avenue, S. F. Owner, G. A. Muller, 3472 Lexington. Location, north 18th east of Lexington, covering an area of 25 by 62 feet. Will contain four modern flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Charles E. Reinhart, 17th and Kansas streets, S. F. Location, east 11th avenue north of Judah, covering an area of 25 by 56 feet. Will contain two flats of five and six rooms. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

COURT HOUSE—2 story and base. Class A construction, $250,000. Prescott, Ariz. Architect, W. S. Bowman, Denver, Colo. Owners, Yavapai County. Architect W. S. Bowman has been selected to prepare plans for the new $250,000 court house to be erected at Prescott, Arizona, for Yavapai County. Norman R. Coulter, San Francisco, was awarded $1,000 for first prize and F. J. De Longchamps of Reno, Nev., second prize of $500. The building will have a complete steel frame and will be faced with granite. Further mention will be made of the work.

SCHOOL—4 story and base. Class C construction, $10,000. San Francisco. Architect, Matthew O'Brien, Foxcroft

Bldg., S. F. Owners, St. Francis Girls Directory. Location, Waller, Central Avenue and Buena Vista. Only preliminary plans have been prepared and details of construction cannot be given. The building will replace the one recently destroyed by fire and will contain besides dormitories, class rooms and chapel. Exterior will be faced with pressed brick. Further mention will be made of the work.

SCHOOL REPAIRS—2 story, frame, $6,000. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, St. John's Evangelical Lutheran Church. Location, Howard and 25th streets. Work will consist of interior and exterior alterations, including plastering, plumbing, painting and carpentry work. Plans are complete and figures are being taken.

HOSPITAL WIRING—$25,000. San Francisco. Architect, Hermann Barth, 2 Geary street, S. F. Owners, City and County of San Francisco. Four bids were received Wednesday by the Board of Public Works for the electric work in connection with the construction of the southeast wing of the San Francisco Hospital. Butte Electric and Engineering Co. presented the low bid on both propositions No. 1 and 2 as follows: No. 1, $25,728; No. 2, $24,853. Other bids received appear below: Ne Page, McKinney Electric Co., No. 1, $26,987, No. 2, $26,187; McFell Electric Co., No. 1, $29,350, No. 2, $28,370; F. E. Newberry Electric Co., No. 1, $26,900, No. 2, $25,325.

BACTERIOLOGICAL WARD—1 story, reinforced concrete, $4,000. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Frank M. Garden Co., 251 Kearny street, presented the low bid for the general construction of the bacteriological ward at the Letterman General Hospital at the Presidio at $2,739, and will probably be awarded the contract. A. Wagner was low on the plumbing at $440, and McFell Electric Co. low on the electric wiring and fixtures at $558 for the wiring and $45 for the fixtures. These figures have been forwarded to Washington D. C., for approval and for formal award.

AIR COMPRESSORS—Cost not stated. San Francisco. Engineer, U. S. Light House Service, Customs House Bldg., S. F. Owners, United States Government. Bids will be received until March 14th for furnishing U. S. Light House Service with two direct-connected horizontal 4-cycle distillate engine-driven air compressors.

APARTMENT HOUSE—4 story and base, $25,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Mr. Kingston. Location, Eddy street between Larkin and Post, covering an area of 25 by 120 feet. Will contain 24 apartments of two rooms and bath. Interior finish pine and elm panels with some hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Bath rooms imitation tile. Exterior faced with cement plaster. Wall beds. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base brick, $20,000. San Francisco. Architect, W. G. Hind, 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, east Larkin north of Geary, covering an area of 34½ by 45 feet. Will contain one store and ten apartments of two rooms and bath. Interior finish pine and redwood. Steam heat and hot water supply. Bath rooms imitation tile. Wall beds. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures in and under advisement.

STORE AND LOFT ALTERATION—2 story and base. Class C. Cost not stated. San Francisco. Architect, Carl Geilfuss, 46 Kearny St., S. F. Owner, R. Jordan. Location, Washington street west of Battery. Work will consist of installing new interior partitions, painting, electric work and plumbing. Plans are complete and figures are being taken.

APARTMENT HOUSE—5 story and base, reinforced concrete, $100,000. San Francisco. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner, Dr. C. F. Buckley. Location, O'Farrell west of Larkin. Will contain a large number of two and three room apartments with wall beds and private baths. Interior finished in pine and elm with some hardwood floors and white enamel. Automatic elevator, steam heat, oil burning plant and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

FLAT ALTERATION—2 story and base, frame, $6,000. San Francisco. Architect, Arthur S. Bughee, 1684 Washington street, S. F. Owner, Dr. Richard F. Tomlinson. Location, east Divisadero south of Washington. Work will consist of altering the two-story frame dwelling into two modern flats. Work will include carpentry work, plastering, plumbing, electric work and painting. Exterior will be covered with cement plaster. Plans are complete and figures are being taken.

WHARF REPAIRS—Cost not stated. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be opened by the State Board of Harbor Commissioners on March 16th for repairs and additions to Pier No. 44. Plans and specifications can be secured from the Secretary's office. An official proposal appears in another column of this issue.

DETENTION HOME HARDWARE—Cost not stated. San Francisco. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Bids will be opened by the Board of Public Works on March 22nd for furnishing the finish hardware in the new Detention Home. Plans can be secured from the architect.

Contracts Awarded.

JAIL FENCING—$3,028. San Francisco. Architect, City Department of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Contractor, James B. McSheehy, 1147 Dolores street, S. F. Contract price, $3,028.

City Bids Opened.

Bids For Electric Work in Southeast Wing of San Francisco Hospital Only Received.

Four bids were received Wednesday by the San Francisco Board of Public Works for the electric work in connection with the construction of the southeast wing of the San Francisco Hospital. Butte Electric & Engineering Co. presented the low bid on both propositions No. 1 and No. 2 as follows: No. 1, $25,728; No. 2, $24,853. Other bids received appear below.

Electric Wiring S. F. Hospital Wing.

Butte Eng. & Elec. Co.	$25,728	$24,853
Ne Page, McKenney Elec. Co.	26,987	26,187
McFell Elec. Co.	29,350	28,370
F. E. Newberry Elec. Co.	26,900	25,325

On Friday, at a joint meeting of the Building Committee of the Board of Supervisors and the Board of Public Works, ways and means of constructing the southeast wing of the San Francisco Hospital will be considered. Contracts for the steel work and foundation work have already been awarded, while bids for the general construction, brick and terra cotta work, plumbing, heating and electric work have been taken. The total of these figures far exceed the amount available for construction.

OAKLAND AND ALAMEDA COUNTY

RESIDENCE — 1 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, E. B. Spitler, 815 Oxford street, Berkeley. Location, east Contra Costa north of Los Angeles. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, S. A. Isakson, 1464 55th avenue, Oakland. Location, east Patterson north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, W. C. Morsen, 534 22nd street, Oakland. Location, west Dohr south of Oregon. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Abany, Almeda Co., Cal. Architect, none. Owner, E. M. Bertheaud, 1027 Peralta avenue, Albany. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $6,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. Stuart, 2004 Pacific avenue, Alameda. Location, west Arch street south of Cedar. Will contain eleven rooms, two baths and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior cov-

ered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, E. L. Higgins, 5250 Miles avenue, Oakland. Location, east Thomas north of Napa. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire place. Mantels tile and brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, W. J. Charles, P. O. Box 291, San Francisco. Location, west Curtis north of Hearst. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, Arvid E. Olson, 610 14th street, Oakland. Location, north Burnett east of San Pablo. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,900. Oakland, Cal. Architect, none. Owner, John D. Schultz, 4416 East 16th street, Oakland. Location, north Bromley east of 62nd. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, M. P. Brasch. Location, Indian Rock avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared. Will be done by Day Labor.

DISPENSARY—1 story, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, Charles H. Cheney, Crocker Bldg., S. F. Owners, City of Berkeley. Bids are now being taken for a one story dispensary to be located at the corner of 5th and University avenue. Interior finish pine. Central heating system. Hardwood floors. Exterior covered with cement plaster. Plans can be secured from the architect.

GARAGE—1 story and base, reinforced concrete, $5,000. Oakland, Cal. Architect, none. Owners, MacKinnon and Church, 1715 Telegraph avenue, Oakland. Location, west Broadway south of 38th street. Designed for a commercial garage and will contain besides the storage space, wash rooms, machine shop and office. Interior rough. Concrete floor. Special gasoline storage tank. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—20, 1 story, frame. Cost not stated. Decoto, Alameda Co., Cal. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner's name not given. Each house will contain four and five rooms and bath. Interior finish redwood. Open fire places. Mantels tile. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, Edwin C. Graff, Syndicate Bldg., Oakland. Location, east Jean street south of Santa Clara. Will contain five rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, northwest corner of East 28th street and Bella Vista avenue. Will contain nine rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. Goranson, 431 48th street, Oakland. Location, south Hopkins east of Laguna. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floor. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,250. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Josn D. Garretson. Location, northeast corner of East 28th and Bay View. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—20, 1 story, frame. Cost not stated. Newark, Alameda Co., Cal. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owners, Newark Land Co. Each house will contain from three to four rooms. Interiors finished in pine and redwood. Open fire places and tile mantels. Exteriors covered with rustic. Plans complete and work to be done by Day Labor.

TUNNEL CONSTRUCTION — $33,000. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County and Southern Pacific Co. Concluding the hearing before the State Railroad Commission in the chambers of the Board of Supervisors a few days ago in the matter of the construction of a subway crossing under the Southern Pacific Company's tracks immediately north of Niles, an arrangement was agreed to whereby the tunnel, which is to cost $33,000, at the equally divided expense of the railroad company and county. The State Highway Commission is to pay for the upkeep of the property.

RESIDENCE — 1 story and base, log construction, $10,000. Oakland, Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, Mrs. Nelson Mortimer Perry. Location, Fernwood. Will contain ten rooms, three baths and sleeping porch. Interior finish pine and redwood. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water system. Bath rooms finished in tile. Exterior rough logs. Plans complete and work to be done by Day Labor and subcontract.

RESIDENCE — 2 story and base, frame, $8,000. Oakland, Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, W. Hawley. Location, Thousand Oaks Tract. Will contain nine rooms, two baths and sleeping porches. Interior finish pine and redwood with hardwood floors throughout. Furnace heat and open fire places. Mantels brick and stone. Bath rooms tile. Automatic water heater. Exterior logs. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, C. J. Pfrang, 548 Claremont street, Oakland. Location, southwest corner of Hudson and Lawton. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, R. H. T. Marrinner. Location, Northbrae. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, W. L. Brodrick, 1201 Colusa avenue, Berkeley. Owner, Charles A. McKelveyby. Location, south San Benito Road east of Marin avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCES — 3, 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, Noble avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base frame, $8,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, S. Goldman, 2008 Shattuck avenue, Berkeley. Location, east Shattuck south of Los Angeles. Will contain two and three room apartments with bath and wall bed. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE — 1 story, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. E. Cofer, 1738 Bridge street, Oakland. Location, east Bridge street, south of Foothill Boulevard. Will contain three suites of three rooms and bath. Interior finish pine and redwood. Wall beds. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

THEATRE AND STORES—3 story and base, reinforced concrete. Cost not stated. Oakland, Cal. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owner, McPike Estate, leased to Bishop Co. Contractor, P. A. Palmer, Monadnock Bldg., S. F. Contract price not stated.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET IMUROVEMENT — $247,128.25. Burlingame, San Mateo Co., Cal. Engineer, City Engineer Burlingame. Owners, City of Burlingame. Bids were received Tuesday evening by the City Council for extensive street and sewer work in the Easton Addition. The Federal Construction Co., 32 Sharon Bldg., S. F., presented the low bid at $247,128.25, and were awarded the contract. Following is a complete list of the bids received: Federal Construction Co., $247,128.25; McGillivray Construction Co., $282,014.54; Ransome-Crummey Co., $296,139.80; Blanchard & Ehrhart Co., $256,641; Raisch Improvement Co., $275,201.68; Clark & Henery, $255,950.67; Johnson & Shea, $287,575.77; Peterson & Grier, $309,747.78; Shattuck & Edinger, $309,605.37.

RESIDENCE ALTERATIONS AND ADDITION—Frame, $20,000. Redwood City, San Mateo Co., Cal. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owner, Mrs. M. A. Harris. Work will consist of new interior finish, hardwood and white enamel. Hardwood floors, open fire places, painting, plastering and plumbing. Some exterior work will also be included. Plans are complete and work has been started by Day Labor.

FIRE HOUSE—2 story and base reinforced concrete, $20,000. Gilroy, Santa Clara Co., Cal. Architect, William Binder, Rea Bldg., San Jose. Owners, City of Gilroy. Will contain space for apparatus room, office and quarters for the men. Interior finish pine with some hardwood floors. Central heating system. Special plumbing, including showers. Exterior faced with cement plaster. Plans being prepared. Construction depends on the voting of a bond issue. Further mention will be made of the work.

JAIL—2 story and base. Class A construction, $60,000. Redwood City, San Mateo Co., Cal. Architect, Will H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Will contain separate departments for male, female and juveniles, office of the sheriff and guard room. Interior finish pine and hardwood with walls of cement plaster. Steam heat, oil burning system and hot water supply. Special jail equipment. Exterior faced with cement plaster or pressed brick. Plans being prepared. Bids to be called for in about three weeks.

COLD STORAGE PLANT—5 story and base, reinforced concrete and brick, $53,000. South San Francisco, San Mateo Co., Cal. Architect's name not given. Owners, Western Meat Co. Contractors, Macdonald & Kahn, Rialto Bldg., S. F. Contract price, $53,000. Note: Contractors are now taking subfigures on the work.

RESIDENCE — 2 story and base, frame, $7,000. Palo Alto, Santa Clara Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Designed in the Colonial style and will contain nine rooms, two baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Hot water heaters. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

Award Big Street Job In Easton.

BURLINGAME, San Mateo Co., Cal.—Bids were received Tuesday evening by the City Council for extensive street and sewer work in the Easton Addition. The Federal Construction Co. presented the low bid at $247,128.25, and were awarded the contract. Following is a complete list of the bids received:

Easton Street Improvements.

Federal Constr. Co.	$247,128.25
McGillivary Co.	282,014.84
Ransome-Crummey Co.	296,139.80
Blanchard & Erhart Co.	256,641.00
Raisch Improvement Co.	275,201.68
Clark & Henery	255,950.67
Johnson & Shea	287,575.77
Peterson & Grier	309,747.78
Shattuck & Edinger	309,605.37

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENT—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma Owners, City of Petaluma. The City Council has passed a resolution of intention providing for the following work: That Webster street from the west line of Hayes avenue to the southeasterly line of the Hillside Tract be improved by grading to the subgrade for its entire width, and between the curb lines by macadamizing with crushed rock and then oiled, and curbed and guttered with concrete. Bids will be called for shortly on this work.

STREET IMPROVEMENT—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. The City Council at its last meeting ordered 23rd street, from Macdonald avenue to Esmond avenue, improved with a bitulithic pavement. From Esmond avenue north to the city limits, 23rd street is said to have a 20-foot improvement with Topeka finishing.

SEWER WORK AND GRADING — Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids were ordered received up to March 13th, 8 p. m. by the City Council at its last meeting for the sewering and grading the canal subdivision. Plans may be had from City Engineer H. D. Chapman at Richmond.

RESERVOIR—Reinforced concrete. Cost not stated. San Rafael, Marin Co., Cal. Engineer's name not given. Owners, Marin Municipal Water Co. The Marin Municipal Water Directors at the last meeting passed resolutions adopting what is known as the Alpine site for the site of their new reservoir. Plans for the reservoir will probably be ordered prepared at the next session of the directors. Further mention will be made of this work.

BATH HOUSE—2 story and base, reinforced concrete, $50,000. Vallejo, Solano Co., Cal. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name not given. Note: The Vallejo Chamber of Commerce are now endeavoring to raise additional money and interest the city authorities in taking the project out of private hands and building a Municipal Bath House. If this is done the amount of money expended will be doubled. Further mention will be made of the work.

CLUB HOUSE—1 story, frame. Cost not stated. Martinez, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owners, Social Center Club, Rev. G. A. Stone. Location, Estudillo avenue. Will contain social rooms, reading room and gymnasium. Interior finish pine with maple floor. Central heating system and open fire place. Exterior covered with rustic and cement plaster. Plans being prepared.

STORES—1 story and base, brick, $7,000. Martinez, Contra Costa Co., Cal. Architect, none. Owner, A. E. Blum, 713 Main street, Martinez. Location, Main street, covering an area of 52 by 160 feet. Will contain two large stores. Interior finish pine. Patent store fronts, marble bases. Exterior faced with pressed brick. Plans complete and owner taking figures.

STORES AND OFFICES—4 story and base, brick and steel. Cost not stated. Vallejo, Solano Co., Cal. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name not given. Will cover an area of 50 by 80 feet. There will be four stores on the first floor and a number of modern offices on the upper floors. Interior finish pine with some hardwood. Patent store fronts and marble bases. Steam heat and electric elevator. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

IRRIGATION LATERAL—Cost not stated. Colusa, Colusa Co., Cal. Engineer's name not given. Owners, Spalding Co. Contractor, W. T. Wilkins, College City. Cost not stated.

FACTORY GROUP—1 and 2 story and base reinforced concrete and brick, $750,000. Richmond, Contra Costa Co., Cal. Architects, Klipstein & Rathmann, St. Louis Mo. Owners, General Roofing Mfg. Co. Contractors, Wimmer Contracting Co., St. Louis. Contract taken on percentage basis. Work started and foundation nearly complete.

STORES AND OFFICES—2 story and base, brick and steel, $21,000. Richmond, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, Dr. W. E. Cunningham. Contractor, J. S. Hannah, Williams Bldg., S. F. Contract price, $21,000. Note: Contract does not include steam heat or oil burning plant.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

HIGHWAY CONSTRUCTION — $80,000. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Definite action towards the construction of 16 miles of paved boulevard from Fernbridge to Ferndale and from Grizzly Bluff to Wadington, was taken when the Supervisors appointed J. A. Shaw to make preliminary surveys and prepare specifications. The boulevard from the railroad to Ferndale will be 18 feet wide, with a 3-foot shoulder, and be of concrete foundation with bitumen surfacing. The Grizzly Bluff-Centerville unit is to be 16 feet wide with a 2-foot shoulder. The approximate cost of the boulevard is given as $180,000. Further mention will be made of this work when plans are complete.

SEWER CONSTRUCTION—Cost not stated. Sacramento, Cal. Engineer, City Engineer E. C. Miller, Sacramento. Owners, City of Sacramento. City Engineer E. C. Miller has recommended to the City Commission that sewers be installed in the annexed territory as follows: Wolf to Fig avenues, Peach to Apricot, F to H, 40th to 42nd. Riverside road, Freeport road, city limits to the 114-inch sewer; Highland Park, 23rd to Lower Stockton road; Y, 3rd avenue to Curtis Oaks; Elmhurst sewer, west end; Elmhurst, southeast end; Upper Stockton road, south of hospital grounds; Miller avenue and Manzanilla and Stanford avenues. These sewers are recommended in addition to sewers through Curtis Oaks, the Heilbron Tract and Highland Park. The recommendations were taken under advisement.

BRIDE—Reinforced concrete, $10,000. Eureka, Humboldt Co., Cal. Engineer, County Surveyor Arthur J. Logan, Eureka. Owners, Humboldt County. County Surveyor Arthur J. Logan states that bids will be called for during the month of May for the construction of a concrete trestle bridge to be built across the Little River about three miles south of Trinidad.

BRIDGE—Steel and concrete. Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor Arthur J. Logan, Eureka. Owners, Humboldt County. Bids will be received until March 15th at 4 p. m. for the construction of a steel approach span for the county highway bridge across the South Fork of Eel River at Dyerville, in Road District No. 2.

RESIDENCE — 2 story and base, frame, $8,000. Lodi, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, Dr. J. E. Nelson Will contain eight rooms and doctor's office, sleeping porch and garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $15,000. Stockton, San Joaquin Co., Cal. Architect, F. H. Reimers, 2145 Shattuck avenue, Berkeley. Owner, F. W. Butterick. Location, Tuxedo Park. Will contain twelve rooms, three baths and sleeping porch. A separate garage will be erected on the property. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—2 story and base, brick and concrete, $90,000. Red Bluff, Tehama Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Red Bluff Union High School District. Will contain twelve class rooms, auditorium, office and teachers' rooms. Interior finished in pine with maple floors. Steam heat, oil burning equipment, program clocks and vacuum cleaning. Slate blackboards. Modern school plumbing. Exterior faced with pressed brick and terra cotta. Plans complete and segregated figures being taken. Bids close on March 28th. The work is segregated as follows: General construction, heating and ventilating, vacuum cleaning, electric work, roofing, cork carpet, window shades, program clocks.

HOSPITAL COTTAGES—2, 1 story and base, reinforced concrete and frame, $30,000 each. Stockton, San Joaquin Co., Cal. Architect, George B. McDougall, Sacramento. Owners, State of California. Bids will be received on March 27th for the construction of a convalescent building for females and a cottage for the males. Interior finish pine and redwood. Central heating system probably steam heat. Hospital plumbing. Exteriors covered with cement plaster. Plans complete and figures being taken. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

ELEVATOR AND DUMB WAITER WORK—Cost not stated. Talmage, Mendocino Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received until March 28th at 12 noon for the completion of the electric elevator and dumb waiter work at the Mendocino State Hospital. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

WAREHOUSE—1 story, frame, $1,200.. Sacramento, Cal. Architect, none. Owner, E. P. Thomas, 825 Walnut street, Sacramento. Location, Walnut avenue. No interior finish. Exterior rustic. Plans complete and work to be done by Day Labor.

HOTEL—3 story and base, brick and concrete, $18,000. Stockton, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owners, Giovani & Gattorna. Location, Commerce street between Market and Washington. Will contain office, lobby and guest rooms. Interior finish pine. Steam heat and hot water supply. Bath rooms composition floors. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures being taken.

LIBRARY—1 story and base, brick, $15,000. Grass Valley, Nevada Co., Cal. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, Town of Grass Valley. Will contain one main reading room and lecture hall. Interior finish pine and hardwood veneer. Hardwood floors. Furnace heat. Metal book stacks. Exterior faced with pressed brick. Plans complete and figures being taken.

THEATRE AND LODGE ROOMS—3 story and base. Class A construction. Cost not stated. Stockton San Joaquin Co., Cal. Architect, A. W. Cornelius, Merchants' National Bank Bldg., S. F. Owner, R. E. Wilhoit, leased to Turner & Dahnken and the Stockton Moose. Location, Main street between Market and Hunter, covering an area of 75 by 100 feet. Complete steel frame and brick exterior walls, faced with pressed brick and terra cotta. Theatre will seat 2400 people. Upper floors finished in pine and hardwood; theatre in ornamental plaster. Steam heat, oil burning plant and vacuum cleaning. Considerable marble and tile. Plans being prepared.

SCHOOL—1 story and base, frame, $11,000. Newcastle, Placer Co., Cal. Architect, Allen D. Fellows, East Auburn. Owners, Newcastle School District. Will contain four class rooms and assembly hall. Interior finish pine with some maple floors. Central heating system, probably hot air. Exterior covered with cement plaster. Plans being prepared. Ready for figures about April 1st.

Contracts Awarded

BANK AND OFFICES—6 story and base. Class A construction $175,000. Stockton, San Joaquin Co., Cal. Architect, George William Kelham, Sharon Bldg., S. F. Owners, Farmers' and Merchants' National Bank of Stockton. Contractors, P. J. Walker Co., Monadnock Bldg., S. F. Contract taken on the percentage basis. Plans being prepared.

Bids Received For Women's Building.

State Opens Bids For Reinforced Concrete Structure to be Erected in Agriculture Park.

(By Special Wire.)

SACRAMENTO, Cal., Feb. 28, 1916.—Thirteen sets of figures were opened by the State Department of Engineering for the construction of a one-story reinforced concrete Women's Building at Agriculture Park, Sacramento. McLeran & Peterson of San Francisco submitted the lowest figure for the work at $23,950. Following is a complete list of the bids received:

Women's Building.

McLeran & Peterson	$23,950
Welsh Bros. & Hannaman	24,164
Louis Cereghino & Son	24,200
Teichert & Ambrose	24,380
C. J. Guth	24,458
Harvey A. Klyce	24,985
Howard S. Williams	26,200
L. G. Bergren & Son	26,472
Wm. C. Keating	26,850
M. P. Mortensen	26,950
E. T. Thurston Jr.	27,700
John H. Silva	29,600
Siller Bros.	30,065

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

STREET PAVING—Cost as follows. Lindsay, Tulare Co., Cal. Engineer, City Engineer, Lindsay. Owners, City

Lindsay. Contractors, Worswick t Paving Co., Union National Bldg., Fresno. Unit prices for vork following: Bituminous base, inches thickness with asphaltic ete wearing surface 2 inches , including grading, per square 13¾c. Crushed rock and oiled ders 6 inches thick, including ng, per square foot, 6c. Grading t surface outside of pavement, ubic yard, 70c. Cement concrete per linear foot, 48c. Cenment ete walks, including grading, per e foot, 12½c. Corrugated iron rf, 10 inches in diameter in place, ding outlet and grating, per linoot, $3. Corrugated iron culvert, hes in diameter in place, including and gratings, per linear foot, Corrugated iron part circle culin place, per linear foot, $2.50. nt concrete gutter, per linear foot, Work will be started shortly.

SIDENCE — 1 story and base, e, $2,000. Fresno, Fresno Co., Cal. itect, none. Owners, Reese and is, 743 Weldon street, Fresno. Lon, Alta Vista Addition. Will confive rooms, bath and sleeping . Interior finish pine and redwood. hardwood floors. Open fire place ile mantel. Automatic water heat-Exterior covered with rustic and nt plaster. Plans complete and to be done by Day Labor.

SIDENCE — 2 story and base, e, $3,500. Fresno, Fresno Co., Cal. itect, none. Owners, Dow and on, Fresno. Location, Hazelwood ion. Will contain seven rooms, and sleeping porch. Interior finine, hardwood and white enamel. wood floors. Open fire places and r brick mantel. Automatic water r. Exterior covered with rustic cement plaster. Plans complete work to be done by Day Labor.

HOOL—1 story and base, brick, 0. Taft, Kern Co., Cal. Archi-Orville L. Clark, Brower Bldg., rsfield. Owners, Conley School ict. Will contain eight class s, assembly hall and teachers' s. Interior finish pine and hard-with maple floors. Steam heat oil burning equipment. Modern l plumbing and slate blackboards. rior faced with pressed brick. s being prepared.

LOS ANGELES & SOUTHERN CALIFORNIA.

SIDENCE — 2 story and base, e, $20,000. Oak Knoll, Los Angeles Cal. Architect, Reginald D. John-Staats Bldg., L. A. Owner, Mrs. A. ndreth. Will contain twelve rooms, baths and sleeping porches. Sep-garage. Interior finish pine and wood with some white enamel. wood floors. Central heating sysand hot water circulating system. rooms tile. Open fire places and r brick mantels. Exterior covered cement plaster. Plans being pre-l.

WER CONSTRUCTION — $20,000. Angeles Cal. Engineer, City En-r, Los Angeles. Owners, City of Angeles. Mike Chutuk was the st bidder at $18,980 for the contion of a sewer complete in Normal ue between Vermont avenue and l avenue, and in other streets. next low bidder is B. Z. Wuretich 0,500. The highest bidder is Leo ich at $33,751.58.

STREET PAVING AND CULVERTS —Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of Monday, March 13th, 1916, for constructing concrete pavement with expansion joints and bituminous wearing surface, reinforced concrete culverts and concrete curbs on portions of Grand View avenue and 10th street near Burbank, about 1.11 miles in length, in Road Improvement District No. 3.

STREET IMPROVEMENT — $45,000. Los Angeles, Cal. Engineer, City Engineer, L. A. Owners, City of Los Angeles. Fred Hoffman of Long Beach was the lowest bidder at $45,000 for constructing concrete pavement with granite base, bituminous wearing surface on Norwalk and Puente Mills road from Whittier road to Anaheim Telegraph road, about 3.65 miles in length, in Road Improvement District No. 54. The next lowest bid was submitted by the Coast Construction Co. at $45,336. The highest bid was submitted by W. A. Dontanville at $55,531.30.

STREET IMPROVEMENT — $15,875. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. The S. C. Contracting Co., Washington Bldg., L. A., was the lowest bidder at $15,875 for the construction of a macadam pavement, concrete curbs and gutters on Whittier avenue from Oak avenue to Frist street near Newark, about 1.4 miles in length, known as Road Improvement District No. 99. The next lowest bidder was Jas. L. Frazer, Marine Bank Bldg., Long Beach, at $15,885. The highest bid was submitted by Rogers Bros. Construction Co. at $21,700.

MAUSOLEUM—1 story and base, reinforced concrete. Cost not stated. Santa Ana, Orange Co., Cal. Architects, Elwing & Tedford, Trust and Savings Bldg., Santa Ana. Owner's name not given. Location, Fairhaven Cemetery. Will cover an area of 122 by 60 feet. Will contain a large number of crypts. Interior finished in stone and plaster. Art glass windows and ornamental iron. Exterior faced with granite. Plans complete and figures being taken.

BRIDGES—Reinforced concrete. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. April 3, 1916, for the construction of a reinforced concrete girder bridge across San Antonio Creek at Station No. 382460 on the line of the State Highway in the Fifth Road District; also for construction of a reinforced concrete girder bridge across San Antonio Creek at Station No. 399425 on the line of the State Highway in the Fifth Road District, in accordance with plans on file in the office of the County Clerk.

BRIDGE—Reinforced concrete, $11,500. Santa Ana, Orange Co., Cal. Engineer, City Engineer Bonebrake, Santa Ana. Owners, City of Santa Ana. City Engineer Bonebrake at the last meeting of the City Trustees submitted an estimate cost for constructing a concrete bridge over the creek at Hannah street. Plans for the bridge will be ordered at a future meeting.

SCHOOL GROUP—1 and 2 story and base. Class A construction. Cost not stated. Los Angeles, Cal. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, City of Los Angeles. Location, Country Club Drive. The bids received February 17th on the plumbing, electric wiring, program clocks and boilers are retained under advisement and the contracts will not be awarded until the new bids for the general work and heating are received. The previous bids on the general contract were rejected on account of an error in the bid of the Los Angeles Planing Mill Co., the lowest bidder, which rendered the bid irregular. The heating bids were rejected because they were received on all the three buildings complete, and the Board of Education had not sufficient funds for the erection of all the buildings. The new bids will be taken on each building separately.

Contracts Awarded.

SEWER CONSTRUCTION—$22,222.22. Los Angeles, Cal. Engineer, City Engineer, L. A. Owners, City of Los Angeles. Contractor, J. P. Glick, L. A. Contract price, $22,222.22.

BRIDGE STEEL—$15,881.55. Ventura, Ventura Co., Cal. Engineer, County Engineer, Ventura. Owners, Ventura County. Contractors, Clinton Bridge Co., Crocker Bldg., S. F. Furnishing steel for six spans in the Saticoy bridge. Contract price, $15,881.55.

SCHOOL—1 story and base, hollow tile, $44,888. Brea, Orange Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, Brea School District. Contractor, Harvey Garber, Orange, general construction, $44,888. The following low bids on the segregated parts of the work were taken under advisement: Plumbing—Thomas Haverty Co., 517 South Los Angeles street, L. A., at $4,375. Heating—Hoagland-Lakin Co., at $3,190. Electric wiring—Robertson & Packard, Santa Ana, at $1,865. Painting—H. Lester, Brea, at $2,585.

SCHOOL CHEMISTRY BUILDING—3 story and base, reinforced concrete, $65,000. Pasadena, Los Angeles Co., Cal. Architect, Elmer Grey, Wright and Callender Bldg., L. A. Owners, Throop Polytechnic College. Contractors, Frank Graves & Son, Builders' Exchange, L. A. Contract price, $65,000.

PORTLAND AND OREGON

Contracts Awarded.

MUNICIPAL AUDITORIUM—2 story and base. Class A construction, $320,262. Portland, Ore. Architect's name not given. Owners, City of Portland. Contractor, Hans Pederson, Alaska Bldg., Seattle, Wash. Contract price, $320,262.

SEATTLE AND WASHINGTON

APARTMENT HOUSE—3 story and base, brick, $40,000. Seattle, Wash. Architect, Warren H. Milner, Haight Bldg., Seattle. Owner, J. M. Brewster. Location, John street near Minor, covering an area of 60 by 130 feet. Will contain eleven apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning system. Bath rooms finished in tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick. Plans being prepared.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
471	Nelson	Nelson	2850
472	Nelson	Nelson	2850
473	Kincanon	Kincanon	35000
474	Johnstone	Ostlund	2500
475	Alco Taxi	Grace	700
476	Biesen	Rexen	400
477	McPhee	McPhee	4500
478	Rauer	Rauer	400
479	Merchants' Ex	Owner	850
480	Lowney	Lowney	500
481	Dante	Liebert	500
482	Bodley	Watson	400
483	Robbers	Guillie	1000
484	Newsom	Seghieri	450
485	Smith	Fennell	700
486	Green	Miller	400
487	Allen	Allen	400
488	Pearsons	Pearsons	500
489	Tolerton	Collman	11000
490	Sullivan	Collman	7985
No.	**Owner**	**Contractor**	**Amt.**
491	de Trieste	Greenback	4922
492	Standard Oil	N Y Belting	3227
493	Same	Musto	5800
494	Finance & Rlty	Owner	——
495	Ambrosetti	Rossi	1800
496	Crocker	Scott	1460
497	Same	Same	1610
498	3rd Chr Scientist	Bosch	5145
499	Bernhard	Zaro	1100
500	Ham	Ham	3500
501	Ham	Ham	3250
502	Ham	Ham	3250
503	Ham	Ham	3250
504	Norman Est	Hock	800
505	Daylight	Novelty	750
506	Dampster	Dampster	1000
507	Marden	Banta	1000
508	Rohson	Sattler	1000
509	Reinhart	Reinhart	4000
510	McCollom	McCollom	1000
511	Williams	Coburn	1000
512	Gulimes	Gulimes	2000
513	Gompertz	Gompertz	7900
514	Ginotti	Sangiacomo	400
515	Rooney	Rooney	400
516	Heyman	Heyman	1950
517	Murray	Coburn	24000
518	Bigelow	Palmer	31732
519	City & Co of S F	McSheehy	3682
520	3rd Ch Scientist	Hetty	1145
521	Fry	Hannah	3150
522	Bancroft Est	Owner	5000
523	Marine Grotto	Owner	1800
524	Recreation Pk	Owsley	2500
525	Walters	Molseed	400
526	Hokamp	Coburn	400
527	Stelling	Trost	50
528	Atkins	Atkins	700
529	Meussdorffer	Owner	550
530	Hotel Von Dorn	Mullen	1000
531	Moores	Moores	750
532	Phelan	Scully	3000
533	Fishbeck	Woolfrey	4500
534	O'Donnell	Segurson	3500
535	Reese	Reese	2800
536	Grannis	Grannis	8000
537	Schoning	McCormick	4500
538	Nat'l Mill Co.	Owner	850
539	Sorensen	Hansen	1300
540	Rosenblooms	Owner	450
541	Mayers	Mayers	400
542	S P Co.	Dolan	2000
543	Lange	Lange	50000
544	Herrscher	W'n Hdwd	500
545	Klint	Klint	800
546	Conroy	Conroy	400
547	Van Husen	Van Husen	1000
548	Buffa	Buffa	600
549	Webber	Witzelsberger	500
550	Chandler	Cal Metal	400
551	Droger	Pettersen	100
552	Bjorkman	Bjorkman	1800
553	Martenstein	Van Emon	1800
554	Rust	Hamilton	400
555	Allen	Allen	4 70

FRAME RESIDENCE
(471) E FORTY-THIRD AVE 110 N Fulton. Two-story and basement frame residence.
Owner.....Emil Nelson, 244 Rivoli, San Francisco.
Architect...None.
Day's work. COST $2850

FRAME RESIDENCE
(472) E FORTY-THIRD AVE 85 N Fulton. Two-story and basement frame residence.
Owner.....Emil Nelson, 244 Rivoli, San Francisco.
Architect...None.
Day's work. COST $2850

BRICK APARTMENTS
(473) S POST 55 W Polk. Four-story and basement brick (20) apartments.
Owner.....J. G. Kincanon, 215 Montgomery San Francisco.
Architect...C. O. Clausen, Hearst Bldg San Francisco.
Day's work. COST, $35,000

ALTERATIONS
(474) NO. 184 O'FARRELL. Alter and repair interior and exterior of restaurant.
Owner.....C. A. A. Johnstone, 1901 Bryant, San Francisco.
Architect...None.
Contractor..Ostlund & Johnson, 1901 Bryant, San Francisco.
COST, $2500

REPAIRS
(475) NO. 360 GOLDEN GATE AVE. Repair office and garage.
Owner.....Alco Taxi Co., Premises.
Architect...None.
Contractor..Grace & Bernieri, 714 Claus Spreckels Bldg., S. F.
COST, $700

ALTERATIONS
(476) NO. 350 DUNCAN. Alter bakery
Owner.....J. Biesen, Premises.
Architect...None.
Contractor..James Rexen, Daly City.
COST, $400

FRAME RESIDENCE
(477) N CAMINO DEL RAY BLVD 50 E Lincoln Park. Two-story and basement frame residence.
Owner.....Anna and Mrs. D. McPhee, 6331 California, S. F.
Architect...None.
Contractor..D. McPhee, 6331 California, San Francisco.
COST, $4500

ALTERATIONS
(478) SE SANCHEZ & SEVENTEENTH. Alter store.
Owner.....J. J. Rauer, 381 Bush, San Francisco.
Architect...None.
Day's work. COST, $400

APARTMENTS
(479) SE CALIFORNIA AND LEIDESDORFF. Carpenter work, metal lathing and plastering, wainscoting, decorating, tinting, wiring, shelving, ventilating, heating, etc., for apartments.
Owner.....Merchants' Exchange Club, Merchants' Exchange Bldg. San Francisco.
Architect...Nathaniel Blaisdell, 255 California, San Francisco.
Day's work. COST, $850

ADDITION
(480) E NINTH 50 S Harrison. and repair shop.
Owner.....D. D. Lowney, Premises
Architect...None.
Day's work. COST,

ALTERATIONS
(481) NE BROADWAY & ROMO Alter saloon and restaurant.
Owner.....Dante Restaurant, Inc., Broadway, San Francis
Architect...None.
Contractor..Liebert & Martinelli, Pacific, San Francisco.
COST,

UNDERPIN STORES
(482) W MISSION 200 S 22nd. Un pin stores.
Owner.....H. S. Bodley, 129 Su San Francisco.
Architect...None.
Contractor..Sage Watson, 40 7th, S
COST,

ALTER STORE
(483) NO. 84 LANDERS. Alter sto
Owner.....H. F. Robbers, Premise
Architect...None.
Contractor..E. H. Guillie, 154 Herm San Francisco.
COST, $

RETAINING WALL
(484) E RAMONA 90 S 14th. Conc retaining wall.
Owner.....Wm. A. Newsom, 220 Sl on Bldg., San Francisc
Architect...None.
Contractor..Seghieri Bros., Inc., Cook, San Francisco.
COST,

UNDERPIN APARTMENTS
(485) S ELLIS 57½ W Hyde. Un pin apartments.
Owner.....Matthew Smith, Ellis Jones, San Francisco.
Architect...Wm. H. Crim, 425 K ny, San Francisco.
Contractor..Jos. Fennell, 180 Je San Francisco.
COST,

ALTERATIONS
(486) NW GEARY & TWENTY-FIF Ave. Alter store.
Owner.....J. H. Green, 2521 Clem San Francisco.
Architect...None.
Contractor..W. A. Miller, 2503 Clem San Francisco.
COST,

ALTERATIONS
(487) W FILLMORE 106-2¼ N C fornia. Alterations.
Owner.....Allen & Co., 128 Sut San Francisco.
Architect...A. R. Denke, New Bldg., San Francisco.
Day's work. COST,

UNDERPIN DWELLING
(488) E BRYANT 125 S 18th. Und pin and alter dwelling,

Owner.....E. K. Pearsons, 2372 Bryant, San Francisco.
Architect...None.
Day's work. COST, $500

CLASS "C" STORE
(189) N SUTTER 181-6 W Powell N 137-6 W 25-4½ S to a pt 207-2½ W from Powell E 25-8½. All work for one-story and mezzanine floor Class "C" store building.
Owner.....Hill Tolerton, 10[illegible] Grant Ave., San Francisco.
Architect...Wm. C. Hays, Nevada Bank Bldg, San Francisco.
Contractor..Collman & Collman Co., Sharon Bldg., S. F.
Filed Feb. 26, '16. Dated Feb. 25, '16.
Walls up 40%
Completed and accepted..... 35%
Usual 35 days..... 25%
TOTAL COST, $11,000
Bond, none. Limit, 80 days. Forfeit, none. Plans and specifications filed.

CLASS "C" BUILDING
(190) N BUSH 68-9 W Mason N 100 W 22-11 S 100 E to beg. All work except excavating grading, bulkheading, shades and electric fixtures for one-story Class "C" reinforced concrete building.
Owner.....Walter H. Sullivan, 129 Sutter, San Francisco.
Architect...August G. Headman, New Call Bldg., S. F.
Contractor..Collman & Collman Co., Sharon Bldg., S. F.
Filed Feb. 26, '16. Dated Feb. 17, '16.
Foundation work and concrete walls completed up to 1st floor line $1000
Roof completed and marquise frame in position..... 2000
Completed and accepted..... 2988
Usual 35 days..... 1997
TOTAL COST, $7985
Bond, $3993. Surety, New Amsterdam Casualty Co. Limit, 50 days from excavating. Forfeit, $5. Bonus, $5 per day. Plans and specifications filed.

LATH AND PLASTER
(191) NE VAN NESS AVE AND McAllister 120x109. All work for lath and plaster for building.
Owner.....Mrs. Hannah de Urioste.
Architect...J. C. Hladik, Monadnock Bldg., San Francisco.
Contractor..Greenback Plastering Co., 110 Jessie, San Francisco.
Filed Feb. 28, '16. Dated Feb. 28, '16.
Lathing finished $1000
Brown coated 1617
White coated 1000
Usual 35 days..... 1206
TOTAL COST, $4823
Bond, $2411.50. Surety, United States Fidelity & Guaranty Co. Limit, as fast as possible. Forfeit, $20. Plans and specifications filed.

TILE FLOORS, ETC.
(192) NW SANSOME AND BUSH N 137-6xW 67-6. Interlocking rubber tile floors, treads and landing for alterations and extension of Class "A" office building.
Owner.....Standard Oil Co., 200 Bush, San Francisco.
Architect...Brad. C. McDougall, Sheldon Bldg., San Francisco.
Contractor..New York Belting & Packing Co.
Filed Feb. 28, 16. Dated Feb. 8, '16.
Between 1st and 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $3227
Bond, $1614. Surety, Fidelity & Deposit Co. of Maryland. Limit, 15 days after notification. Forfeit, $25. Plans and specifications filed.

(193) MARBLE WORK ON ABOVE
Contractor..Joseph Musto Sons-Keenan Co., 565 North Point, S. F.
Filed Feb. 28, '16. Dated Feb. 8, '16.
Payments same as above.....
TOTAL COST, $5800
Bond, $2900. Surety, Aetna Accident & Liability Co. Limit, 30 days after notification. Forfeit, $25. Plans and specifications filed.

RESIDENCES
(194) E FORTY-FOURTH AVE 200, 225 and 250 S Geary. Plans and specifications filed for the erection of 3 two-story 6-room frame residences.
Owner.....Finance & Realty Development Co. 340 Phelan Bldg., San Francisco.
Architect...None.
Day's work. COST, $——
Plans and specifications filed Feb. 28, 1916.
NOTE:—Plans and specifications only were filed on the above.

FRAME COTTAGE
(195) SW QUESADA AVE 262-6 SE Lane SE 28-1½ SW 100 ptn Blk 349 S. S. P. Hd and R. R. Ass'n. All work except shades and lighting fixtures and cement floors in basement for one-story and basement frame cottage.
Owner.....Emilio E. Ambrosetti, 1772 Quesada Ave., S. F.
Architect...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..F. Rossi, 1799 Filbert, San Francisco.
Filed Feb. 29, '16. Dated Feb. 26, '16.
Frame up $450
Brown coated 450
Completed and accepted..... 450
Usual 35 days..... 450
TOTAL COST, $1800
Bond, $900. Sureties, G. Chiappellone and Carlo Rossi. Limit, 75 days after March 1. Forfeit, $5. Plans and specifications filed.

HEATING AND VENTILATING
(196) NO. 240 STOCKTON, bet. Post & Sutter. Heating and ventilating for alterations to Wiltshire Hotel.
Owner.....Chas. H. Crocker.
Architect...Macdonald & Macdonald, 58 Sutter, San Francisco.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 29, '16. Dated Feb. 26, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1160
Bond, none. Limit, as soon as practicable. Forfeit, none. Plans and specifications, none.

(197) OIL BURNING EQUIPMENT on above.
Contractor..Scott Co., 243 Minna, S. F.
Filed Feb. 29, '16. Dated Feb. 26, '16.
Payments same as above.....
TOTAL COST, $1610
Bond, none. Limit, as soon as practicable. Forfeit, none. Plans and specifications, none.

PLASTERING, ETC.
(198) N HAIGHT 137-6 E Central Ave E 75xN 137-6. Plastering, metal ceilings, wire lath, etc., for church.
Owner.....Third Church of Christ Scientist.
Architect...Edgar A. Mathews, 251 Post, San Francisco.
Contractor..Hermann Bosch 191 10th, San Francisco.
Filed Feb. 29, '16. Dated Feb. 17, '16.
Entire 10th of each month.... 75%
Usual 35 days..... 25%
TOTAL COST, $5115
Bond $2,772.50. Surety, Guardian Casualty & Guaranty Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(199) N FILBERT 131-6 W Divisadero W 29xN 137-6. Plumbing, gas fitting, etc., for frame residence.
Owner.....Mina R. Bernhard.
Architect...Fredk. D. Boese, 74 Montgomery, San Francisco.
Contractor..Geo. N. Zaro.
Filed Feb. 29, '16. Dated Feb. 23, '16.
Roughing in done.....$550
Completed and accepted..... 225
Usual 35 days..... 325
TOTAL COST, $1100
Bond none. Limit, 100 days Forfeit, $[illegible]. Plans and specifications filed.

FRAME RESIDENCE
(500) NE TWENTIETH AVE & ANZA. Two story and basement frame residence.
Owner.....L. B. Ham, 274 25th Ave., San Francisco.
Architect...None.
Day's work. COST, $3500

FRAME RESIDENCE
(501) E TWENTIETH AVE 25 N Anza Two-story and basement frame residence.
Owner.....L. B. Ham, 274 25th Ave., San Francisco.
Architect...None.
Day's work. COST, $3250

FRAME RESIDENCE
(502) E TWENTIETH AVE 50 N Anza Two-story and basement frame residence.
Owner.....L. B. Ham, 274 25th Ave., San Francisco.
Architect...None.
Day's work. COST, $3250

FRAME RESIDENCE
(503) E TWENTIETH AVE 75 N Anza Two story and basement frame residence.
Owner.....L. B. Ham, 274 25th Ave., San Francisco.
Architect...None.
Day's work. COST, $3250

UNDERPIN APARTMENTS
(504) NW BUSH AND MASON. Underpin apartments.
Owner.....Norman Estate, 110 Market San Francisco.
Architect...B. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..Chas. H. Hock, 180 Jessie, San Francisco.
COST, $800

MARQUISE, ETC.
(505) NO. 1031 MARKET. Marquise and electric sign.
Owner.....Daylight Market, Prem.
Architect...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $750

FRAME FLATS
(506) E CAROLINA 100 S 23rd. Two-story and basement frame (2) flats.

Owner.....Lawrence C. Dampster, 140 Wisconsin, S. F.
Architect ...None.
Day's work. COST, $1000

FRAME DWELLING
(507) N LOMBARD 110 E Scott. One-story and basement frame dwelling.
Owner.....F. Marden, 2318 Clay, S. F.
Architect ...None.
Contractor..Banta & Loblaw, 2222 Fillmore, San Francisco.
COST, $1000

PARTITIONS
(508) NE GEARY AND STOCKTON. Erect partitions.
Owner.....Robson & Sattler, 1201 Nevada Bank Bldg., S. F.
Architect ...None.
Day's work. COST, $1000

FRAME FLATS
(509) E ELEVENTH AVE 275 N Judah. Two-story and basement frame (2) flats.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $4000

FRAME DWELLING
(510) W THIRTY-SIXTH AVE 200 N Balboa. One-story frame dwelling.
Owner.....F. A. McCollom, 571 39th Ave., San Francisco.
Architect ...None.
Day's work. COST, $1000

FRAME DWELLING
(511) E SANCHEZ 267 N 23rd. One-story and basement frame dwelling.
Owner.....Geo. Williams, 4030 24th, San Francisco.
Architect ...None.
Contractor..Chas. Coburn, 4030 24th, San Francisco.
COST, $1000

FRAME DWELLING
(512) S GENEVA 30 E Athens. One and one-half-story and basement frame dwelling.
Owner.....Victor Gullmes, 1828 Castro San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(513) N GREEN 26 E Broderick. Two-story and basement frame residence.
Owner.....Chas. W. Gompertz, 503 Market, San Francisco.
Architect ...None.
Day's work. COST, $7900

ALTERATIONS
(514) S GEARY 32-6 E 25th Ave. Alter coal yard.
Owner.....F. Ginotti & Co., 4509 Geary San Francisco.
Architect ...None.
Contractor..G. Sangiacomo, 458 9th Ave., San Francisco.
COST, $400

ALTERATIONS
(515) NO. 2485 BRYANT. Alter flats and store.
Owner.....J. J. Rooney, Premises.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(516) E THIRTY-FOURTH AVE 175 N Fulton. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1950

CLASS "C" GARAGE
(517) S CALIFORNIA 137-6 E Leavenworth S 137-6xE 68-9. Concrete, steel, carpenter work, etc., for two-story Class "C" garage building.
Owner.....Ella F. Murray, 621 Foxcroft Bldg., S. F.
Architect ...Matthew O'Brien, 68 Post, San Francisco.
Contractor..Ira W. Coburn, 547 Brannan, San Francisco.
Filed Mar. 1, '16. Dated Feb. 29, '16.
Progressive payments on 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $24,000
Bond, $12,000. Sureties, Chas. J. Morrison and Frank Mordecai. Limit, 110 days from issuing permit. Forfeit, $15. Plans and specifications filed.

(Correction in Location)
CLASS "A" GARAGE
(518) N BUSH 137-6 E Mason N 137-6 xE 87-6. All work except elevator for two-story and basement Class "A" reinforced concrete garage.
Owner.....J. K. Bigelow, Sonoma, Cal.
Architect ...August G. Headman, New Call Bldg., S. F.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
Filed Mar. 1, 16. Dated Mar. 1, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $31,732
Bond, $15,866. Surety, The Aetna Accident & Liability Co. Forfeit, $25. Bonus, $25 per day. Limit, June 23, 1916. Plans and specifications filed.

FENCE
(519) INGLESIDE. Construct fence at Jails Nos. 2 and 3.
Owner.....City & County of San Francisco.
Architect ...None.
Contractor..J. B. McSheehy, 1147 Dolores, San Francisco.
COST, $3682

ELECTRIC WORK
(520) N HAIGHT 137-6 E Central Ave E 75xN 137-6. Electric work for church.
Owner.....Third Church of Christ Scientist.
Architect ...Edgar A. Mathews, 251 Post, San Francisco.
Contractor..Hetty Bros., 326 Ellis, S. F.
Filed Mar. 2, '16. Dated Feb. 24, '16.
On or before 10 of each month.. 75%
Usual 35 days..... 25%
TOTAL COST, $1145
Bond, $578. Surety, Hartford Accident & Indemnity Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(521) NW BUSH AND POLK. All work for alterations and additions to St. Dunstan Apartments.
Owner.....Estate of Sarah Fry.
Architect ...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..J. S. Hannah, Williams Bldg., San Francisco.
Filed Mar. 2, '16. Dated Feb. 25, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $3150
Bond, $1576. Sureties, G. W. Cushing and J. D. Hannah. Limit 30 days from recording. Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(522) NOS. 725-727 MARKET. New front, and alter interior for cafe.
Owner.....Bancroft Estate, 731 Market, San Francisco.
Architect ...A. F. Heide, 367 Russ Bldg San Francisco.
Day's work. COST, $5000
NOTE:—Job started.

ALTERATIONS
(523) W POWELL, bet. Ellis and O'Farrell. Alter stores and grill.
Owner.....Marine Grotto of S. F.
Architect ...Cunningham & Politeo, 1st National Bank Bldg., S. F.
Day's work. COST, $1800

ERECT FENCE
(524) W VALENCIA 390 N 15th. Erect fence.
Owner.....Recreation Park Ass'n., 374 Valencia, S. F.
Architect ..None.
Contractor..B. T. Owsley, 119 Jessie, San Francisco.
COST, $2500

TERRAZZO STEPS
(525) NO. 2 ANZA. Terazzo steps.
Owner.....W. J. Walters.
Architect ...None.
Contractor..G. W. Molseed, 365 5th Ave., San Francisco.
COST, $400

ADDITION
(526) No. 2408 FRANKLIN. Add and alter dwelling.
Owner.....H. Hokamp, Polk and Sacramento, San Francisco.
Architect ...None.
Contractor..Chas. Coburn, 4030 24th, S. F. COST, $400

ALTERATIONS
(527) N FULTON 70 W Baker. Erect partition for store and alter present store building.
Owner.....B. Stelling, NW Baker and Fulton, San Francisco.
Architect ...None.
Contractor..Robt. Trost, 26th and Howard, San Francisco.
COST, $950

FRAME GARAGE
(528) NO. 1055 GREEN. Two-story frame garage.
Owner.....David Atkins, Premises.
Architect ...Julia Morgan, Merchants' Exchange Bldg., S. F.
Day's work. COST, $700

ALTERATIONS
(529) NO. 115 HAIGHT. Alter room into kitchen and bath.
Owner.....C. A. Meussdorffer, 1104 Humbolut Bank Bldg., S. F.
Architect ...C. A. Meussdorffer.
Day's work. COST, $550

ALTERATIONS
(530) NO. 242 TURK. New front for hotel.
Owner.....Hotel Von Dorn, Premises.
Architect ...None.
Contractor..Mullen Mfg. Co., 64 Rausch San Francisco.
COST, $1000

GRAVEL BUNKERS
(531) E ALABAMA 141 S 15th. Erect gravel bunkrs.

Owner.....E. M. Moores, 15th and Alabama, San Francisco.
Architect...None.
Day's work. COST, $750

ALTERATIONS
(532) S MARKET 125 E Seventh (Hotel Federal). Subdivide store and increase hotel lobby.
Owner.....Jas. D. Phelan, Phelan Bldg., San Francisco.
Architect...E. E. Gottschalk, Phelan Bldg., San Francisco.
Contractor..J. E. Scully, 2449 Larkin, San Francisco.
COST, $3000

FRAME FLATS
(533) E FIFTH AVE 25 S Irving. Two story and basement frame (2) flats.
Owner.....J. M. Fishbeck.
Architect...None.
Contractor..John B. Woolfrey, 10 Bartlett, San Francisco.
COST, $4500

FRAME TENEMENTS
(534) W TWENTY-FIFTH AVE 75 W Hampshire. Two-story and basement frame (4) tenements.
Owner.....E. O'Donnell, 1573 Fulton, San Francisco.
Architect...None.
Contractor..Segurson Bros., 308 Guerrero, San Francisco.
COST, $3500

FRAME DWELLING
(535) W EIGHTH AVE 225 N Lawton. Two-story and basement frame dwlg.
Owner.....O. L. Reese, 1552 9th Ave., San Francisco.
Architect...Wm. C. Gilligan, 1675 12th Ave., San Francisco.
Day's work. COST, $2800

FRAME FLATS
(536) E SHRADER 100 W Fell. Two-story and basement frame (4) flats.
Owner.....Mrs. Sophie Grannis, 1955 Franklin, San Francisco.
Architect...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $8000

FRAME FLATS
(537) W SEVENTEENTH AVE 125 S Anza. Two-story and basement frame (2) flats.
Owner.....O. A. Schoning and H. S. Thomson, Mission & Charles, San Francisco.
Architect...None.
Contractor..T. McCormick, 25 Gladys, San Francisco.
COST, $4500

FRAME BUILDING
(538) MARKET, McCOPPIN & ELGIN Park. One-story frame building.
Owner.....National Mill & Lumber Co 5th and Bryant, S. F.
Architect...None.
Day's work. COST, $850

FRAME STORE
(539) NO. 1426 RAIL ROAD AVE. One story frame store.
Owner.....L. Sorensen.
Architect...None.
Contractor..C. W. Hansen, 110 Jessie, San Francisco.
COST, $1300

ALTERATIONS
(540) W FORTY-FIRST AVE 150 S Geary. Raise and repair dwelling.
Owner.....R. Rosenblooms, 2346 Mission, San Francisco.
Architect...None.
Day's work. COST, $450

ALTERATIONS
(541) NOS. 3145-51 SIXTEENTH. Alter bakery.
Owner.....A. Mayers, 10 Belvedere, San Francisco.
Architect...None.
Day's work. COST, $400

WRECKING BUILDING
(542) GROUNDS OF PANAMA-PACIFIC International Exposition. All labor, etc., for wrecking building of Southern Pacific Company.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect...None.
Contractor..D. J. Dolan Wrecking & Constr. Co., 1607 Market, San Francisco.
Filed Mar. 3, '16. Dated Feb. 29, '16. Usual 35 days after completion and acceptance.....Total amount TOTAL COST, $2000
Bond, $1000. Surety, Royal Indemnity Co. Limit, 45 days. Forfeit, none. Specifications only filed.

CLASS "C" APARTMENTS
(543) N POST 68 E Leavenworth. Five story and basement Class "C" brick and concrete (35) apartments.
Owner.....Lange & Bergstrom, 207 Sbaron Bldg., San Francisco
Architect...Charles Peter Weeks, Mutual Savings Bank Bldg., San Francisco.
Day's work. COST, $50,000

ALTERATIONS
(544) NO. 385 GEARY. Alter front and interior.
Owner.....E. E. Herrscher, Chronicle Bldg., San Francisco.
Architect...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., San Francisco.
COST, $500

ALTERATIONS
(545) NO. 264 FIFTH AVE. Alterations.
Owner.....A. H. Klint, Premises.
Architect...None.
Day's work. COST, $800

ALTERATIONS
(546) NO. 430 TWENTY-SEVENTH Ave. Raise, move and alter dwelling.
Owner.....J. A. Conroy, Premises.
Architect...None.
Day's work. COST, $400

ADDITIONS
(547) NOS. 846-848 DOLORES. Minor changes and additions.
Owner.....J. H. Von Husen, 933 Dolores, San Francisco.
Architect...None.
Day's work. COST, $1000

FRAME DWELLING
(548) W PALOU 425 S Jennings. One story and basement frame dwelling.
Owner.....Angelo Buffa, 733 Union, San Francisco.
Architect...None.
Day's work. COST, $600

GARAGE
(549) W PALM AVE 226 S Euclid Ave. One-story frame garage.
Owner.....Chas. F. W. Webber, 129 Palm Ave., San Francisco.
Architect...None.
Contractor..J. Witzelsberger, 176 Rousseau, San Francisco.
COST, $500

MARQUISE
(550) NW GEARY AND MARKET. Erect marquise.
Owner.....Dr. Frank W. Chandler, 702 Market, San Francisco.
Architect...None.
Contractor..California Metal Works, Oakland. COST, $400

ALTERATIONS
(551) SW BUSH AND LAGUNA. Alter for market.
Owner.....Maria G. Droger, 1562 Haight, San Francisco.
Architect...None.
Contractor..Pettersen & Persson, 332 Lick Bldg., San Francisco.
COST, $100

FRAME DWELLING
(552) W CORDOVA 25 S Athens. One-story and basement frame dwelling.
Owner.....John Bjorkman, 102 Cordova, San Francisco.
Architect...None.
Day's work. COST, $1800

ALTERATIONS
(553) SW BATTERY AND PACIFIC Enlarge elevator shaft and install elevator.
Owner.....J. Martenstein & Co., 699 Battery, San Francisco.
Architect...None.
Contractor..Van Emon Elevator Co., 51 Natoma, San Francisco.
COST, $1800

FRAME GARAGE
(554) NO. 2976 TWENTY-SIXTH. One story frame garage.
Owner.....F. M. Rust, Premises.
Architect...None.
Contractor..A. O. Hamilton, 677 McAllister, San Francisco.
COST, $400

FRAME RESIDENCE
(555) S ALLSTON WAY 120 E Claremont Boulevard. Two-story and basement frame residence.
Owner.....Charlotte D. Allen, 4525 Mission, San Francisco.
Architect...None.
Contractor..L. L. Allen, 4525 Mission, San Francisco.
COST, $4250

LEASE.

Mar. 1, 1916—NOS. 1422-1424 MARKET and 21-23 Fell. Grand Central Investmen Co to J M Deward. 2 years. $1800.

Mar. 3, 1916—S CLEMENT 70 W Third Ave W 25xS 100. Frederik C C and Emma M Bertelsen to Chas and Ella Moeller. 45 months. $3780.

Mar. 3, 1916—NOS. 571 AND 577 Arguello Blvd. Mrs **Josiephine** T Sharpe to Wm H Greely and W S Helter. 1 year $50 per month with option to renew.

Mar. 1, 1916—S CALIFORNIA 137-6 E Leavenworth E 68-9xS 137-6. Ella F Murray to Albert E Kern. 10 years. $57,000.

NOTICE OF NON-RESPONSIBILITY.

Mar. 2, 1916—NW SANTIAGO & 22ND Ave N 192 W 210-1 S 204-6 E 210. J P Treanor as to improvements on leased property .....

Mar. 2, 1916—E FIFTEENTH AVE 250 N Fulton N 25xE 127-6; E 15th Ave 275 N Fulton N 25xE 127-6; E 15th Ave 300 N Fulton N 25xE 127-6; E 15th Ave 325 N Fulton N 25xE 127-6; E 15th Ave 375 N Fulton N 25xE 127-6; E 15th Ave 350 N 15th Ave N 25xE 127. Sterling Realty Co as to improvements on leased property .....

Mar. 3, 1916—Lot 2 Blk 21, Crocker Amazon Tract, Crocker Estate Co as to improvements on leased property .....

BUILDERS' BOND.

Feb. 28, 1916—SE BRAYANT 265 NE 22nd SE 160xNE 126, M J Cebrian with J. S. Sampson and L C Larson (as Sampson & Larson). Sureties, Guardian Casualty & Guaranty Co. Bond, $18,187.50 and $36,375. Same with Decker Elec Constr Co. Surety, American Surety Co of N. Y. Bond, $573.75 and $1147.50.

BUILDING OPERATIONS FOR FEBRUARY.

The following is a report of Building operations during the month of February, 1916, as shown by the Records of the Bureau of Building Inspection:

Class	No. of Bldgs.	Cost.
"A"	1	$ 130,000
"C"	9	157,700
Frames	158	613,056
Alterations	361	113,257
Harbor	1	92,000
State	1	250,657
Total	531	$1,356,915

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED

Feb. 26, 1916—W SIXTEENTH AVE 175 N Balboa N 25xW 120. Gus D Harper Jr to whom it may concern.....Feb. 25, 1915

Feb. 26, 1916—W BRYANT 74-5 N Army N 24x75. Philip W Montrouil to whom it may concern. Feb. 25, 1916

Feb. 26, 1916—N UNION 65 W Leavenworth 48-6x137-6. S Foppiano to Curran & Bulotti.....Feb. 26, 1916

Feb. 26, 1916—NW MADRID 200 SW Excelsior Ave SW 25xNW 100 Ptn Lot 7 Blk 29 Excl Hd. Richard and Lilly Strandlund to whom it may concern.....Feb. 4, 1916

Feb 26, 1916—E CHURCH 52 S Army S 25 E 95 N 25 W 25. C Eriksen to Chas G Anderson.....Feb. 24, 1916

Feb. 25, 1916—SW CALIFORNIA AND Mason W 77-6xS 60. S W Morshead to Jas H Pinkerton Co..Feb. 16, 1916

Feb. 26, 1916—W MISSION 229 N Valencia N 30xW 145. C Batiloro to G & P Carraro..... Feb. 23, 1916

Feb. 28, 1916—NW CALIFORNIA & 25th Ave 32-6x74. Mark I Hart to whom it may concern...Feb. 28, 1915

Feb. 28, 1916—COMG. 100 E Bryant and 325 S 26th E parallel with 26th 25 S 83-6 to N Army W 25-0⅞ m or l N 85-6⅝. Gus Lindberg to whom it may concern..Feb. 28, 1916

Feb. 28, 1916—SW CALIFORNIA AND Helen 20x57-6. Jacob Nurok to M Brueck.....Feb. 23, 1916

Feb. 16, 1916—N HOWARD 215 W 3rd N 80xW 60. Emma F Corr to whom it may concern.....Feb. 7, 1916

Feb. 29, 1916—SW QUESADA AVE 318-9 SE Lane SE 28-1½x100 Blk 349 South San Francisco Hd and R R Ass'n. Samuel Vallon to P H Madden.....Feb. 24, 1916

Feb. 29, 1916—S O'FARRELL 137-6 W Polk 27-6x120. Thos Smith and J L Stewart to J B Reite. Feb. 28, 1916

Feb. 29, 1916—W SANCHEZ 61 S 25th 25x76-9. John W Flaherty to Johnson & Hatland.....Feb. 20, 1916

Feb. 26, 1916—N UNION 65 W Leavenworth 48-6x137-6. S Foppiano to A Fraschina, Manager Dinarta Printing Co.....Feb. 26, 1916

Mar. 1, 1916—LOT 5 BLK 3, St. Francis Wood. Sylvain M Levy to Kal Schley.....Feb. 25, 1916

Mar. 1, 1916—E THIRTEENTH AVE 100 S Balboa S 25xE 120. Thos F Whelan to C J & W J Keenan.....Jan. 24, 1916

Mar. 1, 1916—E SEVENTH AVE 250 S Lake S 25xE 120. Joseph C Kirby to whom it may concern. Mar. 1, 1916

Mar. 1, 1916—W SEVENTEENTH AV 146-1 S California S 25xW 100. Grace Yager to whom it may concern.....Feb. 29, 1916

Mar. 1, 1916—N CALIFORNIA 32-6 W 16th Ave W 25xN 100. Grace Yager to whom it may concern.....Feb. 29, 1916

Mar. 1, 1916—NO. 2970 BROADWAY. Florence H Ehrman to Herman Bosch.....Feb. 16, 1916

Mar. 2, 1916—S TWENTY-FOURTH 25 W Vicksburg W 25xS 108-8. Thos P Duffy, Gdn Estate Jno F Duffy, minor, to A E Olson.....Mar. 1, 1916

Mar. 2, 1916—SW LAIDLEY 400 NW Fairmount. Richard H Wibel to N F Nilsson.....Feb. 28, 1916

Mar. 2, 1916—E FORTY-FIFTH AVE 250 N Fulton N 25xE120. Carl Menzel to whom it may concern.....Mar. 2, 1916

Mar. 2, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Elec Co to George MacGruer.....Feb. 29, 1916

Mar. 3, 1916—S BUSH 71-8 W Hyde W 66-1 S 117-6 E 42-9 N 60 E 23-4 N 57-6. Clyde S Payne to whom it may concern.....Mar. 1, 1916

Mar. 3, 1916—W TWENTY-FIRST Ave 400 N Irving N 25x120. Michael Cain to whom it may concern.....Mar. 3, 1916

LIENS FILED

San Francisco

Feb. 26, 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. F G Norman & Son vs Edward and Margaret Perry and F R Holm.....$52.61

Feb. 26, 1916—NW COOK & GEARY N 100xW 26-8. Schwarz & Gottlieb, Inc, Cpn vs H M and Francis C Berthiaume and O R Thayer..$190.16

Feb. 26, 1916—E LISBON 175 N Italy Ave N 25xE 100. J F Dowling & Co vs A Boscos.....$255.87

Feb. 26, 1916—NW LONDON 100 SW Brazil Ave S 25 NW 100 NE 25 SE 100; Lot 8 Blk 3, Excl Hd. Charles H Schmidt vs Franco and Rosalia Indelicato $260

Feb. 26, 1916—W MISSION 190-9 N 25th N 25xW 117-6. John Delucchi vs Annie M Schulz and Ratto & Ratto $280

Feb. 28, 1916—NO. 2363 SIXTEENTH S line 179-8 W Guerrero 110x25. Gus Johnson vs Edw and Margt Perry and Greenback Plastering Co $145

Feb. 28, 1916—SE UTAH AND 19TH. Columbia Lumber Co vs John F Haner $439.59

Feb. 28, 1916—E FORTY-FIFTH AVE 125 N Cabrillo (C) 25x120; E 45th Ave 150 N Cabrillo 25x120. W P King, $262.75; A R King, $96.50 vs H H Clark, Co-Operative Carpenters Co and Sterling Realty Co.....

Mar. 1, 1916—E TWELFTH AVE 25 S Balboa S 25xE 95. Wm A Hayes vs Gladys C Small, Admx Estate Katherine Small, dec'd and R and J S McLelland.....$55

Mar. 1, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. O and A Giannini vs Katherine Black....$519

Mar. 2, 1916—LOT 4 BLK 2840 Forest Hill Court. I Wanner vs E M Reagh $75

Mar. 2, 1916—N MISSION 190-9 N 25th N 110-7½ W 138-1½ S 38-6¾ E 117-6. Macdonald Lumber Co vs Annie M Schultz and Ratto & Ratto $49.50

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 29, 1916—SE CLEMENT AND 24th Ave S 100xE 30. Fred Jones to Anna R Wissmann.....

Feb. 29, 1916—E TWELFTH AVE 25 S Balboa S 25xE 95. Hardwood Interior Co; Incandescent Supply Co to Robert and J S McLelland, C David, Katherine Small, decd, and Gladys Small, Admx Est Katherine Small, decd. .....

Feb. 25, 1916—S FULTON 75-3 E Octavia E 50 S 137-6 W 25 N 50 W 25 N 87-6. Empire Planing Mill to Amabile Porta and Giacomo Aimar

Feb. 25, 1916—SW PINE & BATTERY. Hansbrough-Johnston Co, Builders' Supply Depot to Anna Meloy Donahue and Anna Meloy Donahue, Tr Estate Michael Donahue, decd....

Feb. 28, 1916—W TENTH AVE 100 S Balboa S 25xW 120. Pacific Woodworking Co to Alice C Bollier, Robt McClelland to Alice C and Paul E

Feb. 28, 1916—W TENTH AVE 100 S Balboa S 25xW 120. McClelland & McLelland, McLelland & McLelland Bollier .....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
399	Snow	Dunakin	400
400	Ferguson	Wells	1400
401	Schultz	Schultz	1200
402	Hill	Brown	1200
403	McKee	Wolfe	1225
407	Muir	Connell	400
408	Down Town Co	Owner	1000
409	Luckenbach	Federal	400
412	Bauman	Roust	2500
413	Holland	Holland	600
414	Peterson	Northup	1000
415	Higgins	Higgins	3500
416	Roach	Cress	2500
417	Sunset Groc	Bradshaw	1000
418	Gardner	Borle	400
419	Barnum	Vaughn	1180
420	Taylor	Clark	1500
421	Taylor	Clark	1500
424	Idora Park	Palmer	19526
427	Isakson	Isakson	1700
428	Kilpatrick	Costodio	3400
429	Umbdenstock	Owner	750
431	Muller	Muller	2500
432	Muller	Muller	2500
437	Pfrang	Pfrang	2500
438	Garretson	Garretson	4250
439	Cofer	Cofer	2500
440	MacKinnon	Church	5000
441	McDonald	Littlefield	600
442	Miller Est	Palmer	36300
443	Same	Calif Plate Glass	810
446	Johnson	Jones	1000
447	Bernstein	Vaughn	900
448	Kane	Bignami	1090
449	Bettman	Tanley	400
450	Anderfurson	Whitford	400
453	Eggleston	Anderson	2000
454	Eggleston	Anderson	2000

Eggleston	Anderson	2000
Eggleston	Anderson	2000
Bertheaud	Owner	1500
Strang	Strang	3500
Osborn	Dexter	2500
Garretson	Owner	5000
Goranson	Goranson	1850
Graff	Graff	3000
Gier	Bradshaw	1000
Drees	Roust	600
McLaughlin	Bartlett	400
Barnard	Tranmal	7900
Percy	Percy	10000
Gier	Bradshaw	400
Whalen	Whalen	2000
Whalen	Whalen	2000
Mederer	Mederer	1000
Cardoza	Cardoza	1300
Havens	Kulchar	500
Cohen	Johnson	1500
Tyson	Bertelsen	1800

ERATIONS
) NO. 2678 PERALTA AVE., Oakland. Alterations
ler.....A. P. Snow, Premises.
nitect ...None.
tractor..T. H. Dunakin, 1516 36th Ave., Oakland.
COST, $400

ELLING
) NE NINETY-SIXTH AVE AND rry, Oakland. One-story 4-room welling.
ner.....Geo. Ferguson, 1928 96th Ave., Oakland.
hitect ...None.
tractor..E. E. Wells, 1751 Auseon, Oakland.
COST, $1400

ELLING
) N BROMLEY 275 E 62nd Ave., akland. One-story 5-room dwelling.
ner.....John D. Schultz, 4416 E-16th, Oakland.
hitect ...None.
's work. COST, $1200

ELLING
2) E EIGHTY-NINTH AVE 424 S lymouth, Oakland. One-story five-oom dwelling.
ner.....Otto B. Hill, 1610 89th Ave., Oakland.
hitect ...None.
ntractor..Tom Brown, 1642 89th Ave., Oakland.
COST, $1200

ELLING
3) E THIRTY-FIFTH AVE 80 S enniman, Oakland. One-story 5-oom dwelling.
ner.....Rachel McKee, 3588 Brookdale Ave., Oakland.
hitect ...None.
ntractor..J. E. Wolfe, 2915 Octavia, Oakland.
COST, $1225

PAIRS
7) SW SAN PABLO AVE AND sabella, Oakland. Repairs.
ner.....Mrs. A. R. Muir, 26th bet. Telegraph & Broadway, Oakland.
chitect ...None.
ntractor..Robert Connell, 533 31st, Oakland. COST, $400

PAIRS
8) NO. 1728 BROADWAY, Oakland. Repairs.
ner.....Down Town Co., Premises.
chitect ...None.
y's work. COST, $1000

ECTRIC SIGN
09) SE SIXTH AND WEST, Oakland. Electric sign.
ner.....Fred Luckenbach, Oakland
chitect ...None.

Contractor. Federal Sign System Elec., 818 Mission, San Francisco.
COST, $400

DWELLING
(412) W SIXTY-THIRD AVE 440 N Fortune Way, Oakland. Two-story 5-room dwelling and store.
Owner.....Joe Bauman.
Architect ...None.
Contractor..A. Roust, 6508 Raymond, Oakland.
COST, $2500

ADDITION
(413) NO. 1082 106TH AVE., Oakland. Addition.
Owner.....J. C. Holland Premises.
Architect ...None.
Day's work COST, $600

ADDITION
(414) W 88TH AVE 50 N Birch, Oakland. One-story 5-room addition.
Owner.....C. P. Peterson 1907 88th Ave., Oakland.
Architect ...None.
Contractor..Northup & Kundrus 2200 90th Ave., Oakland.
COST, $1000

DWELLING
(415) E THOMAS 94 N Napa, Oakland. Two-story 6-room dwelling.
Owner.....E. L. Higgins, 5250 Miles Ave., Oakland.
Architect ...None.
Day's work. COST, $3500

ADDITION
(416) NO. 767 CALMAR AVE., Oakland Add conservatory to dwelling.
Owner.....H. P. Roach, Premises.
Architect ...None.
Contractor..Frank H. Cress, 461 Crescent, Oakland.
COST, $2500

ELECTRIC SIGN
(417) NO. 1209 BROADWAY, Oakland. Electric sign.
Owner.....Sunset Grocery Co., Prem.
Architect ...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $1000

ALTERATIONS
(418) N ELIZABETH 150 E 57th Ave., Oakland. Alterations
Owner.....W. S. Gardner, 1315 Park, Alameda.
Architect ...None.
Contractor..C. A. Borle, 2117 Buena Vista Ave., Oakland.
COST, $400

DWELLING
(419) E SHATTUCK 100 N 55th, Oakland. One-story 4-room dwelling.
Owner.....C. E. Barnum, Oakland.
Architect...None.
Contractor..M. C. Vaughn, 5833 Ayala, Oakland.
COST, $1180

DWELLING
(420) W SEMINARY AVE 110 N Elizabeth, Oakland. One-story 4-room dwelling.
Owner.....Dr. Miles Taylor, Head Bldg., San Francisco.
Architect ...None.
Contractor..David Clark, 2231 Seminary Ave. Oakland.

DWELLING
(421) W SEMINARY AVE 170 N Elizabeth, Oakland. One-story 4-room dwelling
Owner.....Dr. Miles Taylor, Head Bldg., San Francisco.
Architect ...None.
Contractor..David Clark, 2231 Seminary Ave. Oakland.
COST, $1500

CONCRETE SWIMMING TANK
(424) IDORA PARK, Oakland. All work for concrete swimming tank, dressing rooms, office, walks, fencing, plumbing and mechanical equipment.
Owner.....Idora Park Co., Premises.
Architect ...Walter D. Reed, Oakland Bank of Savings Bldg., Oakland.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
Filed Feb. 29, '16. Dated Feb. 26, '16.
Each 15 days what has been expended .....
Usual 35 days..... 25%
TOTAL COST, not over $19,526.10
(includes 10%.)
Bond, none. Limit, April 14. Forfeit, none. Plans and specifications filed.

DWELLING
(427) E PATTERSON 180 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....S. A. Isakson, 1464 55th Ave., Oakland.
Architect ...None.
Day's work. COST, $1700

DWELLING
(428) W BROADWAY 100 N Kales Ave Oakland. One-story 4-room dwelling.
Owner.....J. T. Kilpatrick, 1565 Broadway, Oakland.
Architect ...None.
Contractor..J. J. Costodio, 4157 Broadway, Oakland.
COST, $1400

ADDITION
(429) NO. 742 ALCATRAZ AVE., Oakland. Two-story addition.
Owner.....Mrs. John Umbdenstock, Premises.
Architect ...None.
Day's work. COST, $750

DWELLING
(431) W HILLEGASS 50 N Alcatraz Ave., Oakland. Two-story six-room dwelling.
Owner.....F. Muller, Syndicate Bldg., Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $2500

DWELLING
(432) NW HILLEGASS & ALCATRAZ Ave., Oakland. Two-story six-room dwelling.
Owner.....F. Muller, Syndicate Bldg., Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $2500

DWELLING
(437) SW HUDSON AND LAWTON, Oakland. One-story 5-room dwlg.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(438) NE E-TWENTY-EIGHTH AND Bay View Ave., Oakland. Two-story

7-room dwelling.
Owner.....John D. Garretson, 610 Thomson Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $4250

APARTMENTS
(439) E BRIDGE AVE 352 S Foothill Blvd., Oakland. One-story 9-room dwelling.
Owner.....J. E. Cofer, 1738 Bridge Ave., Oakland.
Architect...None.
Day's work. COST, $2500

CONCRETE GARAGE
(440) W BROADWAY 220 S 38th, Oakland. One-story reinforced concrete garage.
Owner.....MacKinnon & Church, 1715 Telegraph Ave., Oakland.
Architect...None.
Day's work. COST, $500(

ALTERATIONS
(441) NO. 1731 BROADWAY, Oakland. Alterations.
Owner.....Wm. McDonald.
Architect...None.
Contractor..R. W. Littlefield, 626 33rd, Oakland. COST, $600

CLASS "C" THEATRE
(442) E FRANKLIN 477.3 N 14th N 180.3xE 150, Oakland. Excavation, concrete work, brick work, carpenter work for Class "C" theatre and store.
Owner.....William E. Miller Est. Co.
Architect...Edw. T. Foulkes, Crocker Bldg., San Francisco.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
Filed Feb. 29, '16. Dated Feb. 28, '16.
1st and 15th of each month.... 75%
Usual 35 days..... 25%
TOTAL COST, $36,300
Bond, $18,150. Surety, Aetna Accident & Liability Co. Limit, 120 days. Forfeit, none. Plans and specifications filed.

(443) GLASS WORK ON ABOVE.
Contractor..California Plate & Window Glass Co., 864 Mission San Francisco.
Filed Feb. 29, '16. Dated Feb. 25, '16.
10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $810
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(446) NO. 146 MONTE VISTA AVE., Oakland. Alterations.
Owner.....W. P. Johnson, Premises.
Architect...None.
Contractor..F. G. Jones, 1217 Webster, Oakland.
COST, $1000

ALTERATIONS
(447) SE FIFTEENTH AND BROADWAY, Oakland. Alterations.
Owner.....M. Bernstein, Premises.
Architect...None.
Contractor..M. C. Vaughn, 5833 Ayala, Oakland.
COST, $900

REPAIRS
(448) S E FOURTEENTH 75 E 11th Ave., Oakland. Repairs.
Owner...T. Kane, 1125 10th Ave., Oakland.
Architect..None.
Contractor..Bignami & Laughland, 2132 Broadway, Oakland.
COST, $1090

SHOP
(449) NO. 3853 PIEDMONT AVE., Oakland. Two-story shop.
Owner.....Louis Bettman, 3857 Piedmont Ave., Oakland.
Architect...None.
Contractor..I. Tanby, Premises.
COST, $400

ADDITION
(450) NO. 4195 SHAFTER AVE., Oakland. Addition.
Owner.....W. J. Anderfurson, Prem.
Architect...None.
Contractor..W. T. Whitford, 421 42nd, Oakland. COST, $400

DWELLING
(453) N MARIN 175 W Pomona, Albany One-story 5-room dwelling.
Owner.....L. W. Anderson and C. P. Eggleston.
Architect...None.
Contractor..L. W. Anderson, 208 Syndicate Bldg., Oakland.
COST, $2000

DWELLING
(454) N MARIN 140 W Ponoma, Albany One-story 5-room dwelling.
Owner.....L. W. Anderson and C. P. Eggleston.
Architect...None.
Contractor..L. W. Anderson, 208 Syndicate Bldg., Oakland.
COST, $2006

DWELLING
(455) N MARIN 105 W Pomona, Albany. One-story 5-room dwelling.
Owner.....L. W. Anderson and C. P. Eggleston.
Architect...None.
Contractor..L. W. Anderson, 208 Syndicate Bldg., Oakland.
COST, $2000

DWELLING
(456) N MARIN 70 W Ponoma, Albany. One-story 5-room dwelling.
Owner.....L. W. Anderson and C. P. Eggleston.
Architect...None.
Contractor..L. W. Anderson, 208 Syndicate Bldg., Oakland.
COST, $2000

DWELLLING
(457) E PERALTA 485 S Sonoma, Albany. One-story 5-room dwelling.
Owner.....E. M. Bertheaud, 1027 Peralta Ave., Albany.
Architect...None.
Day's work. COST, $1500

FRAME DWELLING
(460) LOT 99, NOVA PIEDMONT, Piedmont. Two-story 7-room frame dwlg.
Owner.....V. N. Strang, 1521 9th St., Alameda.
Architect...None.
Day's work. COST, $3500

DWELLING
(461) S OAKLAND AVE 288.32 E Fairview Ave., being Ptn Lot 7 Blk "B," Lincoln Park, Piedmont. All labor for one-story 6-room dwelling.
Owner.....Stephen M. and Marie Osborn, Oakland.
Architect...None.
Contractor..A. R. Dexter, 2212 Grove, Oakland.
Filed Mar. 2, '16. Dated Feb. 2, '16.
Frame up 24
Brown coated .....
Completed .....
Usual 35 days.....
TOTAL COST, $2
Bond, none. Limit, 90 days. Forf plans and specifications, none.

DWELLING
(463) NW E-TWENTY-EIGHTH A Bella Vista, Oakland. Two-story room dwelling.
Owner.....John D. Garretson, Tho son Bldg., Oakland.
Architect...M. I. Diggs, Syndic Bldg., Oakland.
Day's work. COST, $5

DWELLING
(464) S HOPKINS 85 E Laguna A Oakland. One-story 5-room dwlg
Owner.....H. Goranson, 431 48th, C
Architect...None.
Day's work. COST, $1

DWELLING
(465) E JEAN 200 S Santa Clara, O land. One-story 5-room dwelling
Owner.....Edwin C. Graff, Syndic Bldg., Oakland.
Architect...None.
Day's work. COST, $36

ELECTRIC SIGN
(466) EIGHTEENTH AND SAN PAB Ave., Oakland. Electric sign.
Owner.....Theo. Gier Wine Co., Pre
Architect...None.
Contractor..Bradshaw Elec. Sign C 2063 Broadway, Oakland
COST, $1

ALTERATIONS
(467) NO. 3854 THIRTY-NINTH AV Oakland. Alterations.
Owner.....A. Drees, Premises.
Architect...None.
Contractor..A. Roust, 6508 Raymo Oakland. COST, $6

GARAGE
(468) N SEVENTEENTH 100 W Gro Oakland. Garage.
Owner.....David McLaughlin, 15th Broadway, Oakland.
Architect...None.
Contractor..John M. Bartlett, 565 16t Oakland. COST, $4

FRAME DWELLING AND STUDIO
(469) — ASHBY AVE — W Piedmo Ave 55x130; being Lot 13 Blk "B" M Elmwood Park Berkeley. All wo for two-story frame dwelling a studio.
Owner.....Grace Everett Barnar Hotel Shattuck, Berkeley
Architect...Julia Morgan, Merchant Exchange Bldg., S. F.
Contractor..Enoch Tranmal, 54 Kales Ave., Oakland.
Filed Mar. 4, '16. Dated Mar. 4, '16.
Frame up, boarded in, chimneys up and rough plumbing in.....
Brown coated .....
Completed and accepted.....
Usual 35 days.....
TOTAL COST, $79
Bond, none. Limit, 75 days. Forfei none Plans and specifications filed.

DWELLING
(470) FERNWOOD ESTATE, Oaklan One-story 3-room log dwelling.
Owner.....Mrs. Nelson Mortime Percy.
Architect...E. W. Cannon, Centr Bank Bldg., Oakland.
Day's work. COST, $10,00

ELECTRIC SIGN
(471) EIGHTEENTH AND SAN PABLO Ave., Oakland. Electric sign.
Owner.....Theo. Gier Wine Co., Prem.
Architect ...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $400

DWELLING
(472) N SANTA CLARA AVE 106 W Valle Vista, Oakland. One-story 5-room dwelling.
Owner.....J. F. Whalen, 1748 Broadway, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(473) N SANTA CLARA AVE 139 W Valle Vista, Oakland. One-story 5-room dwelling.
Owner.....J. F. Whalen, 1748 Broadway, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(474) W THIRTEENTH AVE 100 N E-32nd, Oakland. One-story 4-room dwelling.
Owner.....B. M. Mederer, 3207 13th Ave., Oakland.
Architect...None.
Contractor..A. L. Haley, 1128 Broadway, Oakland.
COST, $1000

DWELLING
(475) W NINETY-FIFTH AVE 110 S "A," Oakland. One-story five-room dwelling.
Owner.....Frank Cardoza, 1263 82nd Ave., Oakland.
Architect ...None.
Day's work. COST, $1300

ALTERATIONS
(476) SE FOURTEENTH AND CLAY, Oakland. Alterations.
Owner.....Wickham Havens, Inc.
Architect ...None.
Contractor..S. Kulchar & Co., E-8th & 10th Ave., Oakland.
COST, $500

DWELLING
(477) SE THIRTY-SECOND & LINDEN, Oakland. One-story 5-room dwlg.
Owner.....Mrs. Rachel Cohen, 3203 Filbert, Oakland.
Architect ...None.
Contractor..Walter Johnson, 3201 Filbert, Oakland.
COST, $1500

BARN
(478) N SOTELLO AVE 1200 N Sotello Ave (which curves), Oakland. One-story barn.
Owner.....James Tyson, 25 Sotello Ave., Oakland.
Architect ...None.
Contractor..S. J. Bertelsen, 667 39th, Oakland.
COST, $1800

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
404	Coleman	Patrick	4275
405	Olson	Olson	1800
406	Charles	Charles	1500
410	Minasian	Tippo	2900
411	Hazier	Blabon	5500
422	Peake	Anderson	2500
423	Browne	Browne	6000
444	Mattern	Mattern	25000
445	Morsen	Morsen	1900.
451	Jungck	Jungck	400
452	Davis	Davis	700
458	Spitler	Spitler	3000
459	Johnsen	Foss	5500
462	Jones	Jones	——

FRAME DWELLING
(404) LOT 14 BLK 8 Map Berkeley Heights Northbrae Properties, Berkeley. All work for two-story and basement 8-room frame dwelling.
Owner.....Florence C. and George A. Coleman, 1635 Cedar, Bkly.
Architect ...None.
Contractor..O. M. and H. G. Patrick, 2101 Hopkins, Berkeley.
Filed Feb. 25, '16. Dated Feb. 11, '16.
Frame up and chimney built.... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $4275
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(405) N BURNETT 320 E San Pablo Ave., Berkeley. One-story 5-room dwelling.
Owner.....Arvid E. Olson, 610 14th, Oakland.
Architect ...None.
Day's work. COST, $1800

DWELLING
(406) W CURTIS 68 N Hearst, Berkeley. One-story 5-room dwelling.
Owner.....W. J. Charles, P. O. Box 291, San Francisco.
Architect ...None.
Day's work. COST, $1500

DWELLING
(410) E COLBY 273 S Webster, Berkeley. One-story 6-room dwelling.
Owner.....J. F. Minasian, 3021 Colby, Oakland.
Architect ...None.
Contractor..Cruickshank & Tippo, 5667 Dover, Oakland.
COST, $2900

DWELLING
(411) N FOREST AVE 100 E Claremont Court Gate, Berkeley. Two-story 7-room dwelling.
Owner.....J. W. Hazier.
Architect ...None.
Contractor..C. M. Blabon, 3424 Chauncey, Oakland.
COST, $5500

DWELLING
(422) N HOPKINS 100 E Grove, Berkeley. One-story 6-room dwelling.
Owner.....F. R. Peake Co., 2127 University Ave., Berkeley.
Architect ...None.
Contractor..Anderson Bros. & Swanson, 903 Market, Oakland.
COST, $2500

DWELLING
(423) W ARCH 168 S Cedar, Berkeley. Two-story 11-room dwelling.
Owner.....R. Stuart Browne, 2004 Pacific Ave., Alameda.
Architect ...None.
Day's work. COST, $6000

APARTMENTS
(444) E HILLEGASS 150 S Stuart, Berkeley. Two-story 52-room apartments
Owner.....G. A. Mattern, 2701 Regent, Berkeley.
Architect ...Wright & Rushforth, 345 Pine, San Francisco.
Day's work. COST, $25,000
NOTE:—Job nearly completed.

DWELLING
(445) W DOHR 75 S Oregon, Berkeley. One story 5-room dwelling.
Owner.....W. C. Morser, 534 22nd, Berkeley.
Architect ...None.
Day's work. COST, $1900

ALTERATIONS
(451) NO. 1511 MILVIA, Berkeley. Alterations.
Owner.....D. L. Jungck, 3025 Dana, Berkeley.
Architect ...None.
Day's work. COST, $400

DWELLING
(452) N PRINCE 100 E Sacramento, Berkeley. One-story 4-room dwlg.
Owner.....D. E. Davis, 599 35th, Okd.
Architect ...None.
Day's work. COST, $700

DWELLING
(458) E CONTRA COSTA 200 N Los Angeles, Berkeley. One-story 6-room dwelling.
Owner.....E. B. Spitler, 815 Oxford, Berkeley.
Architect ...None.
Day's work. COST, $3000

APARTMENTS
(459) NE SIXTY-SECOND & GROVE, Berkeley. Two-story 12-room apartments.
Owner.....E. Jahnsen, 6123 Dover, Oakland.
Architect ...None.
Contractor..C. C. Foss & Son, 1212 1st Ave., Oakland.
COST, $5500

FRAME DWELLING
(462) LOT 38 BLK 10, Thousand Oaks, Berkeley. All work for one-story 7-room frame dwelling.
Owner.....J. W. and Madge H Jones, 1645 Virginia, Berkeley.
Architect ...None.
Contractor..J. W. Jones, 1645 Virginia, Berkeley.
Filed Mar. 2, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.
NOTE:—Above is given just as it is filed. No agreement is attached to document.

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
425	Williams	Christopher	2000
426	Chamberlin	Norris	1700
430	Borle	Borle	445
433	Kernick	Schnebly	8500
434	Noble	Noble	2000
435	Noble	Noble	2000
436	Noble	Noble	2000

AMUSEMENT PALACE
(425) SURF BEACH PARK, Alameda. Two-story frame amusement palace.
Owner.....J. Williams, Premises.
Architect ...E. Symmes, Pacific Bldg., San Francisco.
Contractor..Gordon Christopher, Webster & Chestnut, S. F.
COST, $2000

DWELLING
(426) NO. 1416 FIFTH, Alameda. One-story 5-room dwelling.
Owner.....H. B. Chamberlin, 444 Central Ave., Alameda.
Architect ...None.

Contractor...J. Norris, 2828 Richmond Ave., Alameda.
COST, $1700

ADDITION
(430) NO. 1605 CHESTNUT, Alameda. Addition.
Owner.....C. A. Borle, 2117 Buena Vista Ave., Alameda.
Architect ...None.
Day's work. COST, $445

DWELLING
(433) FOOT ST. CHARLES, Alameda. One and one-half-story 8-room dwlg.
Owner.....Geo. Kernick, 28th & Webster, Oakland.
Architect ...None.
Contractor..Schnebly, Hostrawser & Pedgrift, 6th and Jackson, Oakland.
COST, $8500

DWELLING
(434) NO. 2515 NOBLE AVE., Alameda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(435) NO. 2518 NOBLE AVE., Alameda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(436) NO. 2504 NOBLE AVE., Alameda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

NOTICE OF NON-RESPONSIBILITY.

Feb. 29, 1916—NO. 527 NINTH, Okd. Mrs C W Burgans as to improvements on leased property.....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Feb. 18, 1916—E GRAND AVE W Park View Terrace N on curve to right 97.67 NE 98.55 SE 40.56 SW 100.95, Okd. Chas J and Carrie B. Rousseau to Anderson & Ringrose .....Feb. 14, 1916

Feb. 19, 1916—LOT 9, BLK A, Map Waterside Terrace, Alameda. Mark T Cole to whom it may concern.....Feb. 18, 1916

Feb. 21, 1916—LOT 10 BLK 14 Map Northbrae, Bkly. Tom R Wheldon to H H Schuessler.....Feb. 21, 1916

Feb. 21, 1916—NW FOURTEENTH Ave 80 SW E-21st SW 35xNW 124, Okd. Albert Hammarberg to whom it may concern.....Feb. 21, 1916

Feb. 23, 1916—**NE COR. E-TWENTY-fourth and SE 11th Ave** NE 35xSE 100, Okd. Robert W Farmer to whom it may concern...Feb. 23, 1916

Feb. 23, 1916—W FILBERT 125 S 8th S 43-8¾, Okd. E Marshall to O M Bullock .....Feb. 15, 1916

Feb. 23, 1916—LOT 18 Nova Piedmont Tract, Piedmont. Chas E Wheeland to whom it may concern.....Feb. 23, 1916

Feb. 24, 1916—S 11 LOT 35 and all Lot 36 and N 3 Lot 37 and S 22 Lot 37 and N 17 Lot 38 Blk "F" Map Broadway Terrace, Okd. Paul E Woodburn to whom it may concern .....Feb. 24, 1916

Feb. 24, 1916—LOT 14 BLK 22 Map Northbrae, Okd. W N Taylor to J G Taylor.....Feb. 18, 1916

Feb. 25, 1916—W BELGRAVE PLACE 196-8 N Napa N 39-2xW 100, Okd. R H Banning and Jas E Stewart to whom it may concern..Feb. 24, 1916

Feb. 29, 1916—LOT 14 BLK "B" Scenic Blvd Knoll, Okd. H S Patton to G W Baumann...Feb. 29, 1916

Feb. 29, 1916—NO. 2845 TWENTY-third Ave, being Lot 2 Blk 4 Puttman Tract, Okd. E H Strang to whom it may concern....Feb. 26, 1916

Feb. 29, 1916—PTN LOTS 21, 22 & 25 Blk 3 Map Berkeley Square, Kingsley W Cannon to Joseph Coward.....Feb. 23, 1916

Mar. 1, 1916—PTN LOT 97 Map Colby Tract, Bkly. Kingston Investment Co to Chris Engelsen.. .....Mar. 1, 1916

Mar. 1, 1916—LOT 5 BLK "H" Map East Piedmon, Heights, Okd. Wickham Havens, Inc to R E Stubbe.....Mar. 1, 1916

Mar. 1, 1916—S E-SIXTEENTH 60 E 22nd Ave, Okd. M J Dowd to A J Bellefontaine.....Feb. 5, 1916

Mar. 1, 1916—S BUENA VISTA AVE 273-11 W St. Charles S 150xW 35-6, Ala. Sivert C Hansen to Conrad Roth.....Feb. 29, 1916

Mar. 2, 1916—SE E-ELEVENTH AND Park Ave, Okd. J A Berger to Harry C Knight.....Mar. 1, 1916

Mar. 3, 1916—LOT 21 Map Nova Piedmont, Piedmont. George Erickson to E W Woodard.....Mar. 3, 1916

Mar. 3, 1916—W SCOTT 209.52 from Marlin; being Lot 7 Blk G Toler Heights, Okd. R E and Marguret F Pierce to J E Settles....Compelted —

Mar 3, 1916—LOT 14 Brookside Manor Okd. Eunice C Wiser to Gordon J Wiser.....Mar. 1, 1916

Mar. 3, 1916—E GROVE 90 S 62nd, Okd. Eugenia Morch to Butterfield & Barker.....Feb. 26, 1916

Mar. 3, 1916—W 33 LOT 15 BLK "M" Map Ptn Lynn Homestead, Okd. E W Horne to Hugh Tullock..... .....March 3, 1916

LIENS FILED

ALAMEDA COUNTY.

Feb. 17, 1916—LOT 85, map Piedmont by the Lake, Oakland. Sadie Bartlett Campbell (wf L. G.).....$5000

Feb. 21, 1916—W MARKET 90 from N line 24th N 40xW 120, Okd. Leo V Gelder vs S Scheyer, J L Stewart and G A Webb (Stewart & Webb).. .....$267

Feb. 23, 1916—LOT 8 BLK "K" Map Grand Ave Heights, Okd. T O Churchill vs Leo L Nichols and G F Sperow $85

Feb. 23, 1916—LOT 7 BLK "K" Map Grand Ave Heights, Oakland. T O Churchill vs Leo L Nichols and G F Sperow $120

Feb. 23, 1916—LOT 14 BLK 6 Map Brookdale Terrace, Okd. I M Toalson (Alameda Hardwood Floor Co) vs Thomas A and Ethie L Batte and O G Smith $84

Feb. 24, 1916—N FORTY-FIRST 117 SE Linden SE 50 NE 88.31 W to arc to left 52.26 SE 73.23, Okd. Terminal Lumber Co vs C Izolla..$85.07

Feb. 25, 1916—LOT 98 Santa Fe Tract No. 20, Okd. G Leone vs J J Benton and Gustaf Johanson.....$230

Feb. 25, 1916—LOT 98 Santa Fe Tract No 20, Okd. Contra Costa Bldg Materials Co vs Gustaf Johansan, J J Benton and M Pontynen...$38.95

Feb. 25, 1916—N LINCOLN 90 W California N 40xE 90, Bkly. J Thalous Kingrea vs Fred and Emma P Zimmering and Henry Ahnifeld..$25

Feb. 28, 1916—LOT 98 Map Santa Fe Tract No. 20, Okd. Gaillard & Cooper vs J J Benton and Gustaf Johanson $53

Feb. 28, 1916—E THIRD AVE 110 N 34th N 140xE 150, Okd. The Turner Co vs William G Gilmour....$1641.08

Feb. 29, 1916—LOT 25 BLK "A" Map Bellevue Tract, Alameda. John P Maxwell (Maxwell Hardware Co) vs Oscar S Huntington and M H Tremble $90.73

Mar. 2, 1916—LOT 2 AND W 25 LOT 3 Blk "E" Map Orland Heights, being No. 4707 Brookdale Ave., Okd. Eureka Mill & Lumber Co vs F A Scott, Flora and John Doe Vautier and F M Maestretti.....$54.62

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

FACTORY BUILDINGS
8 ACRES between tracks of Santa Fe and Southern Pacific Railways, Richmond. Group of 1 and 2 story brick and concrete factory buildings.
Owner.....General Roofing Mfg. Co., Insurance Exchange, S. F.
Architect ...Klipstein & Rathmann, St. Louis, Mo.
Contractor..Wimmer Contracting Co., St. Louis, Mo.
COST, $——

FRAME HOTEL
HERCULES, Contra Costa Co. Two-story and basement frame hotel.
Owner.....Hercules Powder Co.

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods, Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our new stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francirco**

rchitect ...James T. Narbett, 704 Mac-donald Ave., Richmond.
ntractor..Mathew Morton, 1300 Alcatraz Ave., Berkeley.
COST, $14,000

RICK STORE AND OFFICE BLDG.
CHMOND. All work except steam heat and oil burning system for two-story and basement brick Class "C" store and office building.
wner.....W. E. Cunningham.
rchitect ...James T. Narbett, 704 Mac-Donald Ave., Richmond.
ntractor..J. S. Hannah, Williams Bldg., San Francisco.
COST, $21,000

RAME AUDITORIUM
SSOCIATED OIL COMPANY'S PROPerty at Avon. All work for one-story frame auditorium.
wner.....Associated Oil Company.
rchitect ...None.
ntractor..Ward & Goodwin, 110 Jessie, San Francisco.
COST, $11,000

RAME COTTAGES
SSOCIATED OIL COMPANY'S PROPerty at Avon. All work for fifteen one-story 5-room frame cottages.
wner.....Associated Oil Co., Avon, Cal., and Sharon Bldg., S. F.
rchitect ...None.
ontractor..Ward & Goodwin, 110 Jessie. San Francisco.
COST, $——

COMPLETION NOTICES.

MARIN COUNTY.

ECORDED ACCEPTED
ar. 1 1916—SAUSALITO, Marin Co. Sylvester Pearl to R De Luca.....
.....Feb. 1, 1916

BUILDING CONTRACTS.

FRESNO COUNTY.

WELLING
OTS 9 AND 10 BLK 2, Altamont Add'n. Fresno. Dwelling.
wner.....L. E. Williams, 1123 R St., Fresno.
rchitect ...None.
ontractor..C. V. Smith, 1371 Del Mar St., Fresno.
COST, $1950

OTS 2, 3 BLK 2 Mattewan Add'n, Fresno. All work for dwelling.
wner.....E. J. Gearhart, 1314 I St., Fresno.
Architeca ...None.
Contractor..Lee R. Duncan, 1102 Franklin St., Fresno.
Filed Feb. 28 '16. Dated Feb. 25, '16.
Foundation completed $500
Frame up, siding and roof on.... 500
Plastered ready for finishing.... 500
On completion .....Balance
TOTAL COST, $1675
Bond, none. Limit, 180 working days. Forfeit, none. Specifications only filed.

DWELLING
LOT 21 BLK 1, Alta Vista Addition, Fresno. Dwelling.
Owner.....Reese & Atkins, 743 Walden St., Fresno.
Architect ...None.
Day's work. COST, $1800

DWELLING
LOTS 15-16 BLK 239, Fresno. Dwelling.
Owner.....J. Baker.
Architect ...None.
Contractor..Chris Lehman, 824 Ventura St., Fresno.
COST, $1415

SHEET METAL WORK
H AND TULARE STS., Fresno. Sheet metal work in building.
Owner.....Julius Olender and Samuel Olender, 910 S St., Fresno.
Architect ...Coates & Traver, Rowell Bldg., Fresno.
Contractor..Edward Guy.
Filed Feb. 25, '16. Dated Jan. 22, '16.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $2485
Bond, limit, forfeit, none. Plans and specifications filed.

DWELLING
LOT 8 BLK 28, Hazelwood Addition. Fresno. Dwelling.
Owner.....Dow & Cannon.
Architect ...None.
Day's work. COST, $3500

NOTICE OF NON-LIABILITY.

FRESNO COUNTY.

Feb. 25, 1916—EXTENSION ON Mining Claim, Fresno. Crark McClurg & Co as to improvements on leased property.....

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
Feb. 26, 1916—LOTS 28 AND 29 BLK 16, North Park Terrace, Fresno. A R Jack to C B Hanner..Feb. 26, 1916

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
Feb. 26, 1916—LOTS 47 TO 52 BLK 1 Van Ness Add'n., Fresno. Kutner Goldstein Co vs Maud E and Lewis H Smith $111
Feb. 28, 1916—PTN FRACTIONAL Blk H H, Fresno. Barrett & Hicks Co vs K Alexander .....
Feb. 28, 1916—LOTS 7 AND 8, Long Tract, Fresno. Barrett & Hicks Co vs Filomena and Frank Fieiro...$104
Feb. 28, 1916—LOTS 6 AND 7 Ptn Lots 1 to 5 Blk 95, Fresno. Pioneer Brick Co vs Frank Rehern and F M Roessler $991

BUILDING CONTRACTS

SACRAMENTO COUNTY.

FRAME FLATS
NOS. 500-502 NINETEENTH ST., on E 45 feet of N 51 feet of Lot 4 E, F, 16th and 17th Sts., Sacramento. Two-story frame flats with concrete foundation.
Owner.....T. J. Kalbaugh, 1602 E St., Sacramento.
Architect ...None.
Contractor..A. W. Norris, 3012 G St., Sacramento.
COST, $6000

FRAME APARTMENTS
NO. 715 SIXTEENTH ST., on W 52 feet of S ¼ Lot 1 G, H, 16th and 17th Sts., Sacramento. Two-story frame (4) apartments with concrete foundation.
Owner.....Clara E. Thielan, 1318 21st St., Sacramento.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
COST, $5500

OIL TANK, ETC.
NO. 800 J ST., on W ½ of N 90 feet of Lot 1 J, K, 8th and 9th Sts., Sacramento. Install mechanical equipment and 1 1500-gallon oil tank in four-story steel concrete and brick office and bank building.
Owner.....California Guaranty Co., Oakland, Cal.
Architect ...None.
Contractor..Hatley & Hatley, Ochsner Bldg., Sacramento.
COST, $1300

FRAME ROOMING HOUSE
SOUTH GARDEN ROAD on tract of land 100.15 acres of Geo. A. Meister, Sacramento. Two-story frame room-in house with concrete foundation.
Owner.....Albert Meister, 315 16th St., Sacramento.
Architect ...None.
Contractor..Geo. W. McKay, 1018 T St., Sacramento.
COST, $3000

REMODEL STORE
E 20 FEET OF N ½ LOT 3, K, L, 7th and 8th Sts., Sacramento. Remodel store and place fixtures, new wiring, etc.
Owner.....E. W. Meyers Co., 722 K St. Sacramento.
Architect ...None.
Contractor. Siller Bros., 1614 13th St., Sacramento.
COST, $600

REMODEL STORE
W 20 FEET OF S ½ LOT L, N, O, 14th and 15th Sts., Sacramento. Remodel store front and repair paint, etc.
Owner.....Lynn & O'Neil, 1401 O St., Sacramento.
Architect ...None.
Contractor..Siller Bros., 1614 13th St., Sacramento.
COST, $400

REPAIRS
NO. 1205 THIRD ST., S 30 feet of N 60 feet L, M, 3rd and 4th Sts., Sacramento. Repair work to interior and roof of two-story frame stores.
Owner.....A. M. Pana, 317 P St., Sacramento.
Architect ...None.
Contractor..C. J. Guth.
COST, $400

ALTERATIONS
S 80 FEET OF N 167 LOTS 227 & 228, Oak Grove Tract, Sacramento. Alter one-story frame dwelling.
Owner.....Mary Frago, 3504 East Ave., Sacramento.
Architect ...None.
Contractor..Geo. Still, 3421 East Ave., Sacramento.
COST, $400

MOVE FRAME DWELLING
NO. 715 SIXTEENTH ST. (rear) in E 28 feet of S ¼ Lot 1 G, H, 16th and 17th Sts., Sacramento. Move two-story frame dwelling, place on new brick foundation.
Owner.....Clara E. Thielan, 1318 21st St., Sacramento.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
COST, $100

ALTERATIONS
NO. 366 P ST., in E ½ of N ½ Lot 4 P, Q, 3rd and 4th Sts., Sacramento. Remodel store.
Owner.....Mary E. Frank, 400 P St., Sacramento.
Architect...None.
Contractor..Joseph Avilla, 2314 3rd St., Sacramento.
COST, $300

GARAGE
NO. 1224 K ST., on W ½ Lot 4 K, L, 12th and 13th Sts., Sacramento. One story Denison tile public garage.
Owner.....Mrs. Edith Rackerby, 1228 K St., Sacramento.
Lessee.....Arnold Bros., 1208 J St., Sacramento.
Architect...None.
Contractor..H. G. Waterman, 111 J St., Sacramento.
COST, $300

GARAGE
E ½ LOT 3 O, P, 23rd and 24th Sts. (rear), Sacramento. One-story frame private garage.
Owner.....F. E. Douglass, 2322 O St., Sacramento.
Architect...None.
Contractor..E. J. Ette 1515 23rd St., Sacramento.
COST, $400

ALTERATIONS
NOS. 502-504 J ST., on E 40 feet of W 60 feet of N ½ Lot 1 J, K, 5th and 6th Sts., Sacramento. Remodel store front and repairs.
Owner.....Man Lee & Co., 408 J St., Sacramento.
Architect...None.
Contractor..M. D. Smith, 1904 I St., Sacramento.
COST, $2000

FRAME DWELLING
NO. 222 M ST., (rear), on E 20 feet Lot 3 M, N, 2nd and 3rd Sts., Sacramento. One-story 5-room frame dwelling.
Owner.....Dr. H. E. Wright, 1511 M St., Sacramento.
Lessee.....H. Yamamoto, 222 M St., Sacramento.
Day's work. COST, $600

ALTERATIONS
N ½ OF S ½ LOT 4 E, T, 13th and 14th Sts., Sacramento. Remodel two flats in two-story frame dwelling.
Owner.....Thomas Murray, 510 14th St., Sacramento.
Architect...None.
Contractor..G. W. McKoy, 1018 T St., San Francisco.
COST, $600

FRAME GARAGE
1257 WRIGHT & KIMBROUGH TRACT No. 27, Sacramento. One-story frame private garage.
Owner.....M. B. Bender, 2504 Miller Ave., Sacramento.
Architect...None.
Contractor..C. J. Hopkins, 1318 25th St., Sacramento.
COST, $1250

ON T ST. side on S½ Lot 8, I, J, 29th and 30th Sts., Sacramento. Awning porch.
Owner.....White Hospital, 29th and J Sts., Sacramento.
Architect...None.
Contractor..Barton & Hite, 1812 L St., Sacramento.
COST, $600

GENERAL REPAIRS
E ½ LOT 6, E, F, 13th and 14th Sts., Sacramento. General repairs, new roof, sleeping porch, front steps, etc., for one-story frame dwelling.
Owner.....Wm. Egan, 1323 F St., Sacramento.
Architect...None.
Contractor..Chas. J. Guth, 1516 27th St., Sacramento.
COST, $400

FRAME DWELLING
LOT 1257 Wright & Kimbrough Tract No. 27, Sacramento. One-story 6-room and bath frame dwelling with concrete foundation.
Owner.....M. F. Bender, 2504 Miller St., Sacramento.
Architect...None.
Contractor..C. J. Hopkinson, 1318 25th St., Sacramento.
COST, $2600

FRAME BUILDING
LOT 6 ARCADIA at 825 Walnut Ave., Sacramento. One-story frame building.
Owner.....E. P. Thomas, Premises.
Architect...None.
Day's work. COST, $1200

REPAIRS
LOT 4 J, K, 9th and 10th Sts., Sacramento. General repairs.
Owner.....Waxon Bros., 1011 J St., Sacramento.
Architect...None.
Contractor..Wall & Parker.
COST, $300

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Feb. 24, 1916—LOT 1257 Wright & Kimbrough Tract No. 27, Sacramento. Wright & Kimbrough as to improvements on leased property

COMPLETION NOTICES

SACRAMENTO COUNTY.

RECORDED ACCEPTED
Mar. 2, 1916—W ½ LOT 6 and all Lot 7 F, G, 11th and 12th Sts., Sacramento. W H Hosking to Wm Murcell.....Feb. 16, 1916

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Mar. 2, 1916—1½ ACRE TRACT in NW ¼ Sec 14 T 8 R 5; SW Cor. Jackson Road and Florin Ave, Sacramento. Frank H Dole vs William H Layne.....$146.80
Mar. 2, 1916—LOT 16 BLK 2 Maple Park, Sacramento. Waterman Plumbing Co vs John L Johnson... .....$52.82

MEXICAN TRAIN SERVICE RESUMED.

The American vice consul at Piedras Negras, Mexico, reports under date of February 19, 1916, that beginning February 18, 1916, passenger trains of the Southern Pacific railway are crossing the International Bridge, connecting with Mexican trains for the first time in three years. It is expected that this will have a favorable effect on commercial relations.

FOREIGN TRADE FIGURES JANUARY.

Exports for January fell somew below the mark set the previo month, the total being $335,535,203 compared with $352,00000 for Dec ber As compared with January a ago, however, there was an increas nearly $68,000,000. Imports are increasing, the total for January b $184,192,299, an increase of more t $12,000,000 over December. Nearly per cent of the imports were free duty, indicating increased imports raw materials and decreased imp of manufactured European goods.

For the seven months ended January the exports from this cou totaled $2,181,312,322, or 64 per higher than for the like period of preceding fiscal year, and 40 per higher than the former best re made in 1912-13. Imports for the se months ending with January totaled $1,096,979,173, being al $500,000 more than the former hi record total of $1,096,484,767 reco in the seven months of 1912-13, $166,500,000 more than for the cor ponding period of 1914-15. The se months just ended showed an ex balance of $1,084,333,149, being al two and one-half times that for of the corresponding seven-mo periods of the last five fiscal years.

Our international gold movem were comparatively small, imp thereof during January last amoun to $15,008,292, and exports $10,213. The aggregate gold imports for se months to January 31, 1916, were $ 038,386, about nine times the amo imported in the seven months pre ing January 31, 1915; and gold exp aggregated $24,056,908 in the first se months of the current fiscal y against four times that amount like period of the preceding year.

METHOD OF DETERMINING OIL RESIN IN VARNISH..

Results of experiments to find best method of determination of and resin in varnish have been lished by the United States Bureau Standards in Technologic Paper No Several methods are discussed, but conclusion reached by the Bureau

The proposed method for the de mination of oil and resin, invol esterification by the Twitchell or W methods, the use of ether as sol after esterification and correctio the figures by appropriate factors, results which were sufficiently curate for practical purposes, and pears to be the best method so devised for general use.

In explaining the situation that to these experiments, the technol paper states that in spite of the that several methods have been lished for the determination of oil resin in varnish, there has bee noticeable lack of information garding the accuracy of the res obtained, due largely to the failur test the procedures with varnishe known composition and history. was considered desirable, therefor obtain such information, and to de if possible, a method which woul satisfactory. It is shown by Bureau that several methods to found in the literature are not rel for all types of oil varnish.

STRUCTION WORK IN CHOSEN.

Government General Offices—Railway Hotel.

was decided last year to erect new ernment general offices in the unds of Kyongpok Palace, at the t of $1,500,000, the cost to be deed in eight consecutive years. In budget for 1916-17, just framed, a of $100,000 has been included as t of the estimate for carrying out scheme.

he local press reports that there is son to believe that the authorities the Railway Bureau of the Governnt General of Chosen have included the budget for the next fiscal year ding March 31, 1917) an estimate the erection of a railway hotel at ng Yang, Chosen. Correspondence arding supplies for this undertak should be addressed to S. Inohara, , general manager of the Railway tels, care Chosen Hotel, Seoul, osen.

ew Bridge Across the Han River.

The semiofficial Seoul Press reports at the authorities of the Governnt General are planning to construct iron bridge across the Han River the highway between Seoul and emulpo, a little above the railway dge at Ryuzan. The cost is estited at $350,000. It will measure 00 feet in length and 27 feet in dth. It is expected that work will commenced in the spring of 1916 d be completed in 1917. Corresndence should be addressed to the rector of the Bureau of Public orks, Government General of Chosen, oul, Chosen.

New Hydroelectric Company.

It is reported that certain business en of Tokyo are planning to establish a new hydroelectric company to tilize the water power of the Namion Riven in the south of the peninla. It is proposed that the new comany be capitalized at $1,500,000, and at it shall purchase the rights of the resent Taikn Electric Co. The new mpany will not only supply electricy to the district but will also assist the irrigation of neighboring lands. s application for the permission of e authorities has already been made, is expected that work will be comenced in the spring of 1916. The lant of the company will be located at yopchon, South Kyongsang Province. —Commercial Reports.

GEM OF ARCHITECTURAL DESCRIPTION.

We take off our hats to the reporter f an Arizona newspaper who wrote his lucid and luminous description of he plans for a theatre building:

"The front will be in French renaisance style, somewhat roccoco, which s to say an exaggeration of the Louis Quinze style. The splendor and elaborateness of this decoration is particularly suited to a playhouse. The vestibule will have a barrel ceiling. Shells and scroll work on the exterior will be outlined by indirect lighting.

"The proscenium arch will be treated in renaissance. Indirect lighting also will be used in the interior. There will be a marble dado and tile floor.

"The building can easily be converted into summer theatre by means of sliding sections in the roof, of which there are ten."

"Hercules" Interlocking Tile.

A Wall And Partition Tile That Really Interlocks.

Clarence F. Pratt, President of the Pratt Building Material Co., announces that they have a terra cotta interlocking wall, as well as partition tile, which they can deliver in sizes from four inches to twelve inches.

"Hercules" interlocking hollow terra cotta tile stand for safe construction by the advanced use of clay products, most durable, adaptable and fire-resisting material known, and furthers the art of building for beauty, stability and comfort at a minimum cost for the results obtained.

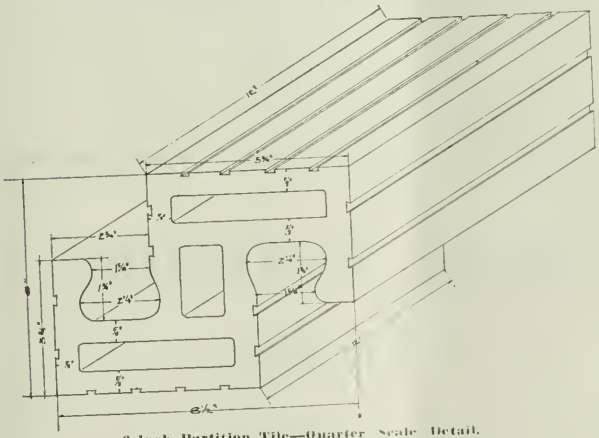
"Hercules" interlocking tile are carefully made from selected clays, thoroughly burned and of uniform sustaining quality. They are so constructed that when laid in a wall with other units of a like form, the resulting wall structure will be thoroughly bonded with all joints broken and form, when so laid, a continuous integral wall structure. The bond is formed by the overlapping and interlocking of the material of which the tiles are themselves composed, being independent of any other tie or bond, except the mortar which is used to place same in alinement and fill joints.

"Hercules" interlocking hollow terra cotta tile are so designed that, however laid in the wall, all members composing same are in continuous bearing relation and alinement. Each tile has different beds and interlocks with four other tile. The consequent distribution of stress increases the resistance and strength of the entire wall structure. Each mortar joint is interrupted in the center of the wall by the interlocking means provided. Behind this broken joint occurs a hollow space, which insulates and protects the interior against the elements. All members are likewise protected, affording complete insulation.

The qualities essential to good construction are safety, durability, beauty and economy. "Hercules" interlocking hollow tile incorporate these necessary factors in a most efficient manner.

The strength of the wall depends on the strength of the units and the manner in which they are bonded. The "Hercules" interlocking hollow wall is strong because all materials used in its construction are strong and internally bonded. Necessary strength is obtained with the elimination of unnecessary materials and the additional advantage of a completely insulated hollow wall.

This tile is very simple to lay, it being evenly balanced and light enough for the brick mason to handle with one hand, the interlocking feature forms an admirable grip for the mason's hand.



6-Inch Partition Tile—Quarter Scale Detail.
Hercules Interlocking Terra Cotta Tile

BEAUTY in a structure is the proper combination of material, form and color. "Hercules" interlocking hollow tile form a natural, well-proportioned unit for the accomplishment of structural art, offering innumerable methods of making a wall beautiful in design and effect. Facing clays of various colors and finish may be used for the exterior or it may be plastered and the surface made plain or blocked.

Considering the artistic desire of the architect, the strength demanded by the engineer, the practical requirements of the contractor and workmen, the needs of the owner and occupant, together with restricted cost, this is one type of wall that complies with all requirements.

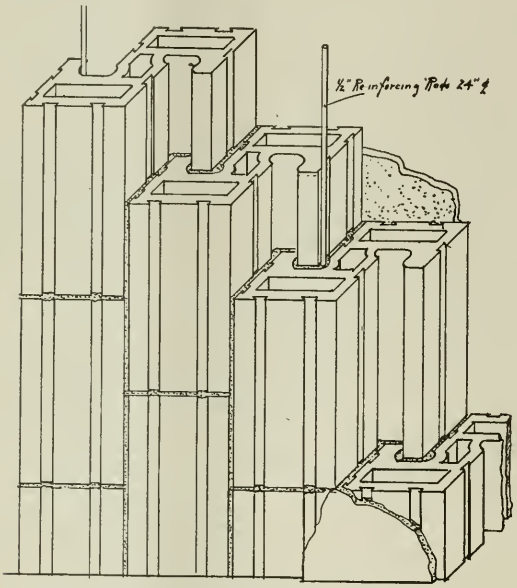
ECONOMY resulting from the use of "Hercules" interlocking hollow blocks in buildings is the elimination of cost, due to furring or waterproofing, heat radiation of walls, cost of material and labor, and in steel frame buildings, a saving in the weight of necessary steel. The mortar required is approximately 33% of that required for brick construction. Economy in building construction is not a matter of first cost. A building is economical in which the total sum of depreciation, insurance and maint

nance is lowest for the results to be obtained. The first cost of "Hercules" interlocking tile construction is low, the maintenance and depreciation practically nil and insurance a minimum.

"Hercules" interlocking hollow tile are designed of such size as to afford the one hand operation, permitting the workmen to pick up and place the unit, leaving the other hand to handle the trowel, line or level. This increases the rapidity of construction.

"Hercules" interlocking terra cotta tile may be obtained in various colors. Standard clays—Red, grey and buff. Matt glazed—Ivory white and grey. The surfaces may be smooth or scored.

Samples may be seen at the office of the Pratt Building Material Co. in the Examiner Building.



8-Inch Wall Tile—Vertical or Horizontal Reinforcement

New Building Laws of San Francisco

Now being compiled.

Daily Pacific Builder.

NEW RECORD ESTABLISHED OF LAYING SUBMARINE POWER-CABLES.

The Pacific Gas & Electric Company has recently completed a piece of engineering work by which it is enabled to deliver electricity in San Francisco direct from its water-power plants in the mountains, bringing it across the bay by means of two submarine cables between the Marin shore near Sausalito and a point on the San Francisco side in the Presidio Reservation. The final tests have been made and, at any moment it is needed, several thousand horsepower of electricity can be brought in to supplement the output from the company's big station at the Potrero where electricity is generated by steam power and, also, the supply brought in over high-tension transmission wires by way of Alviso and the San Francisco peninsula.

The need for this additional service is due to the constantly increasing demand for electric light and power not only in the city of San Francisco, but in the region around the southern part of the bay. The company operates several water-power plants installed on the rivers of the Sierras east of San Francisco, and up to the present time transmission lines brought the electricity from these around the south arm of San Francisco bay; but the supply from these has been continually proving inadequate to the demand. The problem of bringing hydro-electric power from the north into San Francisco by the most direct route across the bay has long been a problem which the company's engineers have been puzzling over. An overhead crossing of the Golden Gate was at one time considered. This would have necessitated a span of more than twice the length of the company's overhead cable system crossing the bay at Carquinez Strait, a span which up to date is the longest of its kind in the world, but at that the project might have been undertaken but for the impossibility of securing permission from the Government to make such a crossing at the point indicated. The next project considered was that of submarine cable. Deep water and swift currents in the bay made the success of submarine cables very uncertain for many years. However, recent improvements in the art of laying submarine cables have made possible the installation which has now been successfully put into service.

In the year 1913 the Pacific Gas & Electric Company partially completed its South Yuba-Bear river development by the construction of a 225-foot dam at Lake Spaulding, near the summit of the Sierras, and a power-plant, named afeer Frank G. Drum, president of the company, on the Bear river some nine miles below. At the same time the company's main high-tension distributing system at Cordelia near Suisun was enlarged and reconstructed, and a new steel-tower transmission line was constructed from Cordelia around San Pablo bay to San Rafael. And now, to complete the delivery of power into San Francisco this last named tower-line has been extended to Sausalito, a distance of about nine miles. A new sub-station has been erected on a commanding site at Sausalito, and by means of four immense transformers of 5700 horsepower capacity each the voltage of the electricity received over the high-tension transmission lines is

ered from 50,000 or 100,000 to 11,000 its for its journey across the bay.

The submarine cables start from llow Bluff, a point on the Marin ore near Fort Baker, and end their ney at the foot of Lyon street in n Francisco. These cables were laid ring the months of September and tober last year. It is worthy of cord that in spite of the great difulty of laying power cables in a pth of water which at a certain int reached 200 feet, and in a section the bay notorious for strong curnts due to the sweep of the tides, the rk was accomplished without acciints and a new record of laying subarine power-cable was established.

From the foot of Lyon street to the mpany's nearest electric substation Buchanan and Beach streets, the ectricity is carried by four underound cables. From the sub-station ned to the company's big steamectric plant at the Potrero the electicity again goes by underground ables.

In this way, then, the city of San rancisco is in a complete circle of ectric power supplied by the Pacific as & Electric Company, a circle which es clear around the bay and takes all points between Santa Clara unty on the south and Butte county n the north.

STATE WATER COMMISSION.

Robert L. Hargrove, J. G. Roberts nd E. M. McCardle, as trustees for the roposed Madera Irrigation District, ave filed with the State Water Comission an application asking for the ppropriation of 5000 second feet of he waters of the San Joaquin River, Fresno and Chowchilla Rivers, Cottonood, Sand, Hildreth, Dry and Marioosa Creeks, for purposes of irrigation f some 400,000 acres of land. There s contemplated a dam 230 feet high, of oncrete, with ten storage reservoirs vith a capacity of 380,000 acre feet and main ditch 45 miles in length.

The James Mills Orchards Company nd the Esperanza Land Corporation of New York, with California headquarers at Hamilton, Colusa county, has pplied to the State Water Commission or permission to appropriate 20 second feet of the waters of Stone Corrall Creek, Colusa County, tributary to Colusa Basin for agricultural purposes. The companies intend to install pumping plants for the irrigation of about 5000 acres.

T. M. O'Keefe, of Palo Credo, has applied to the State Water Commission for permission to appropriate 1000 miners' inches or 25 second feet of the waters of the main Cow Creek in Shasta County. The intention is to divert the water by means of a timber and rock dam into a canal 6½ miles long and carry same to 1444 acres. The estimated cost is $10,000.

The La Mesa Lemon Grove and Spring Valley Irrigation District of La Mesa, San Diego county, has applied to the State Water Commission for permission to appropriate 100,000 miners' inches of the waters of San Diego river in that county, flood waters, and 5000 inches of the natural flow for purposes of irrigation and municipal use. There is proposed for the system, a storage dam 103 feet high, a storage reservoir with a capacity of 34,000 acre feet and a pipe line 2½ miles long. It is intended to irrigate approximately 15,000 acres, the plant to have an estimated cost of $1,232,500.

The Oak Creek Land & Water Company of San Francisco, has applied to the State Water Commission for permission to appropriate 70 second feet of the waters of Oak Creek near Mojave in Kern county. There is proposed a dam 120 feet high, a storage reservior capable of holding 50,000 acre feet, a main ditch 7½ miles long to water 61,-110 acres at an estimated cost of $600,-000.

HIGHWAY LATERALS OUTLINED.

OROVILLE, Butte Co., Cal.—William Watson, an engineer of Quincy and formerly County Surveyor of Plumas County, has submitted for approval to S. J. Norris, Oroville City Engineer, an outline of a proposed system of State Highway laterals for Plumas, Lassen, Sierra and Butte Counties.

The system has been endorsed by Norris, and it is likely the matter will be brought before the people of the counties affected in an attempt to have the system adopted by the State Highway Commission.

One proposed lateral would run from Oroville to Quincy and Susanville, by way of Bidwell Bar thence up the middle fork of the Feather River to a point near the Spanish ranch, afterwards connecting with the Oroville-Quincy road, thence to Quincy and by Keddie, Indian Falls and Greenville, to Susanville.

The total distance would be 133 miles. The lateral would require 36 miles of new construction.

The second lateral would extend from Oroville to Downieville, by way of the present road from Oroville to Clipper Mills, thence over Canyon Creek, up the North Fork of the Yuba River.

New construction work on this road would extend 22 miles.

NEW CONCESSIONS AND COMPANIES IN CHILE.

SANTIAGO, Chile.—Commercial development in Chile is indicated in the following list of concession granted by the Chilean Government and published in recent numbers of the Diario Oficial. These concessions point to activity in different lines

Electric Lighting Plants.

The "Compania Electrica de Copiapo" is installing an electric lighting system. Copiapo is the capital of the Province of Atacama.

Alfonso Luckheide, Puerto Varas, Chile, has secured permission to install an electric lighting system in that port, which is a small town in southern Chile

The concession for electric lighting of Talcahuano has been transferred to George C. Kenrick, who can be addressed at Talcahuano. It is a port located at the mouth of the Rio Bio Bio River about 8 kilometers (5 miles) from Concepcion.

Railway and Street Car Lines.

Samuel Saleeda (Solar), Renca, has asked permission to build an electric railway, 60 centimeter gauge, about 5½ kilometers long, from Renca to Santiago.

Bernardo Larrain C. has secured permission to build a railway from San Pedro to Manzanares, 1 meter gauge. He may be addressed as "Gerente de al Sociedad Ferrocarril Puerto y Balneario de Quintero, Chile."

The "Sociedad Chiban-Alemana Holandesa" has secured permission to build a railroad from the mines of Algarrobo (Department of Vallenar) to a point on the line between Vallenar and Huasco, near the station of Maitenlo. The railway is to have a meter gauge and is to be about 50 kilometers (31 miles) long. The company can be addressed at Minas Algarrobo, Vallenar, Chile.

Guillermo Koort, Iquique, agent in Santiago Carlos Stolp, Casilla 714, has obtained a concession to build a railway from Challocollo to Chuncuyo Huaico Collahuasi. The length of the proposed line is 140 kilometers (87 miles), and it is intended for passengers and mining development. It will connect with the longitudinal line of the Chilean State railways.

Jorge Larros F., of the "Compania Electrica de Talca," has secured an extension of six months for installing a street railway system. Talca, by the census of 1902, has a population of 42,-766 and is located 140 miles south of Santiago.

Oil Companies.

The Union Petroleum Co. (South America) has been organized with a capital of 2,000,000 pesos (about $350,-000) to develop oil properties in Chile and Argentina and take over properties in Magallanes from the "Compania Union de Petroleos de Magallanes."

A "Compania Petroleos de Punta Arenas" has been organized with a capital of 2,000,000 pesos (about $350,-000), taking over the oil properties of the "Compania Union de Petroleos de Magallanes" in the territory of Magallanes. Correspondence can be addressed to E. Fernandez Vicuna, Galvez 55, Santiago.

HEATING DE LUXE.

Under this title the Rector System has issued a 26-page descriptive booklet showing the various classes of buildings that can be economically and perfectly heated by their system.

The testimonials are of a most convincing character.

Every Architect, Owner and Contractor should have a copy.

The Rector System Gas Heating Co. are at 331 Sutter St., San Francisco.

NEW CATALOG OF U. T. HUNGERFORD BRASS AND COPPER CO.

U. T. Hungerford Brass & Copper Co., 80 Lafayette St., New York., with local branch at Postal Telegraph Building, Battery and Market streets, San Francisco, have just issued their latest catalog, consisting of over 100 pages, handsomely bound, illustrating the complete line of **Brass** and **Copper** sold under their well known trade-mark "STAR BRAND."

The contents are classified in separate Departments, thereby providing the trade with a concise price list, together with lists showing material aggregating over 5 million pounds carried in stock ready for prompt shipment of such standard articles as:

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Soldering coppers, solder, brass and iron chain.

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Copper leaders and gutters, etc., etc.

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Brass and Copper in various forms which for volume and assortment is the largest in the world and necessitated the recent erection of the sixteen-story fireproof "Hungerford" Building especially constructed to accommodate this great weight.

The unprecedented conditions prevailing in brass and copper mills, due largely to the European situation, thereby causing unusual delays in deliveries makes this immediately available supply of obvious advantage. An inspection of the Catalog is sure to prove worth while.

FRESNO BUILDING FOR FEBRUARY.

FRESNO, Cal.—February figures in the office of L. A. Granger, city building inspector, give $46,171 as the total estimated value of all buildings for which permits were issued during the month. This amount is an increase of $14,176 over the January total. Alterations and repair permits reached $9,981 against $19,502 for January.

4500 CARLOADS OF LUMBER.

OAKDALE.—The Southern Pacific and Santa Fe railroads have been requested to provide for the shipment of 4500 carloads of lumber from the mountains this year to be shipped in over the Sierra Railway. The timber cut this season largely for export, will be the heaviest in the history of the industry around Tuolumne. The Standard Lumber Co. will cut 40,000,000 feet of lumber and the West Side Lumber Co. will cut 50,000,000 feet.

A congress of continental American history is to be held in Rio de Janeiro in 1922 during the centennial celebration of the independence of Brazil. The arrangements for the congress are under the direction of the Brazilian Historical and Geographical Institute, which will endeavor to secure the cooperation of the Pan-American Union with a view to having all the American nations participate in the discussion and publication of papers on this history of the American Continent.

WATER DISTRICT PLANS EFFECTED

WILLOWS Glenn Co. Cal.—At a meeting at Princeton Colusa county, the organization of the first unit of settlers on the Sacramento Valley Irrigation project for the purpose of taking over in units the canal system of the Sacramento Valley West Side Canal Company, was effected.

The unit will be known as the Princeton-Codora-Glenn Water Users' Association, a mutual company. The area comprising the district will be between 16,000 and 20,000 acres. The distribution system within this territory will be taken over at a price of approximately $160,000, at a cost to the settlers of approximately $8 per acre. The district concerned is know as the Sacramento river section. Payments for the canal system will extend over a long period.

THE FIRST SKYSCRAPER.

Credit for the first skyscraper built in this country is generally conceded to Chicago. It was built in the "loop district" of that city in 1886, from plans by Holabird & Roche. The first example of lofty building in New York City was the structure at 50 Broadway, designed by Bradford Lee Gilbert in 1888. A few years later both these wonders become insignificant and practically forgotten because they were so greatly outdone by suceeding skyscrapers. But these were not the initial efforts, for a skyscraper was designed nearly three centuries ago, many generations before the discovery of the steel cage system of this day.

Jacques Perret, an architects of Chambery, Savoy, is the accredited author of plans for an eleven story building, 361 feet in height, which must have had twice the space between floors, for today eleven stories are crowded within a height of 150 feet. Perret's building was planned to be 166 feet long and 140 feet wide, with supporting walls twelve feet thick at the base.

While never executed, the project of Perret in many ways was a remarkable prophetic vision. Evidently it was intended for dwelling purposes, for in describing the project he wrote, "This great and excellent edifice can accommodate comfortably 500 people."

PROOF OF ORIGIN IN AUSTRALIA.

Commercial Attache Downs reports from Melbourne that goods imported from the United States are frequently refused entry until satisfactory proof is presented that they were manufactured in the United States, or in some country with which the United Kingdom is at peace. Invoices from actual manufacturers, preferably with notation that the goods are the product of their own factory, and statement as to its location, are usually accepted as evidence of American manufacture. Such manufacturers' invoices should accompany all exports to Australia even when shipped directly by forwarding agents or commission houses.

Under the new export regulations, the original shipper is in a position to make out his own declaration to the customs authorities of the United States, and thus have available, if necessary, further proof of the American origin of goods destined for countries which prohibit the entry of merchandise of enemy origin.—Commercial Reports.

DEPARTMENT OF THE INTERIOR.

UNITED STATES GEOLOGICAL SURVEY.

New Publications; List 95, Feb. 15, 1916.

The following publications have been issued recently:

Reports.

Professional Paper 95. Shorter contributions to General Geology, 1915; David White, Chief Geologist. 1916. 120 pages, 7 plates, 35 text figures.

Comprises papers on potash-bearing muds from Columbus Marsh, Nev., Eocene Glacial Deposits in southwestern Colorado. The Relation of Cretaceous Formations in Colorado and New Mexico to the Rocky Mountains, an ancient volcanic eruption in the Upper Yukon Basin, the Evaporation of Artificial Potash Brines, Erosion Intervals in Eocene Time in the Mississippi embayment, the Diffusion of Solids, the Geology of Graving Island, Alaska, and the Age of the Ocala Limestone.

Bulletin 621-N. Structure of the Berea Oil Sand in the Summerfield Quadrangle, Guernsey, Noble and Monroe Counties, Ohio, by D. D. Condit. 1916, pp 217-231, pls. XXII-XXIII, figs. 13-15.

Bullentin 621-0. Structure of the Berea Oil Sand in the Woodsfield Quadrangle, Belmont, Monroe, Noble, and Guernsey Counties, Ohio, by D. D. Condit. 1916. pp 233-249, pls. XXIV-XXV, figs. 13, 16-17.

Water-Supply Paper 372. A Water-Power Reconnaissance in South- Central Alaska, by C. E. Ellsworth and R. W. Davenport, with asection on Southeastern Alaska, by J. C. Hoyt. 1915. 172 pages, 22 plates, 6 text figures.

Water-Supply Paper 397. Ground Water in the Waterbury Area, Conn., by A. J. Ellis under the direction of H. E. Gregory. 1916. 73 pages, 4 plates, 10 text figures.

Part of Mineral Resources of the United States, 1914, Namely: Mineral Production of the United States in 1914 (a summary), by H. D. McCaskey. 1916. pp. *7-*69, Fig. A. Part 1: A.

Contains a chart showing the mineral product of the United States, 1905 to 1914, inclusive.

Geologic Folio 198. Castle Rock (Colo.) Folio, by G. B. Richardson. 1916. 13 Folio Pages of Text, 3 Maps, 1 Columnar-Section Sheet, 20 Plates, 6 Text Figures. Price 25 cents retail or 15 cents wholesale.

SOUTH FAVORABLE TO STATE HIGHWAY BONDS.

According to a report made by Leigh H. Irvine secretary of the San Luis Obispo county Chamber of Commerce and of the Valley-to-Coast Highway Association, there is a general sentiment in favor of the $15,000,000 state highway bond issue, although in some sections of the state support is lukewarm.

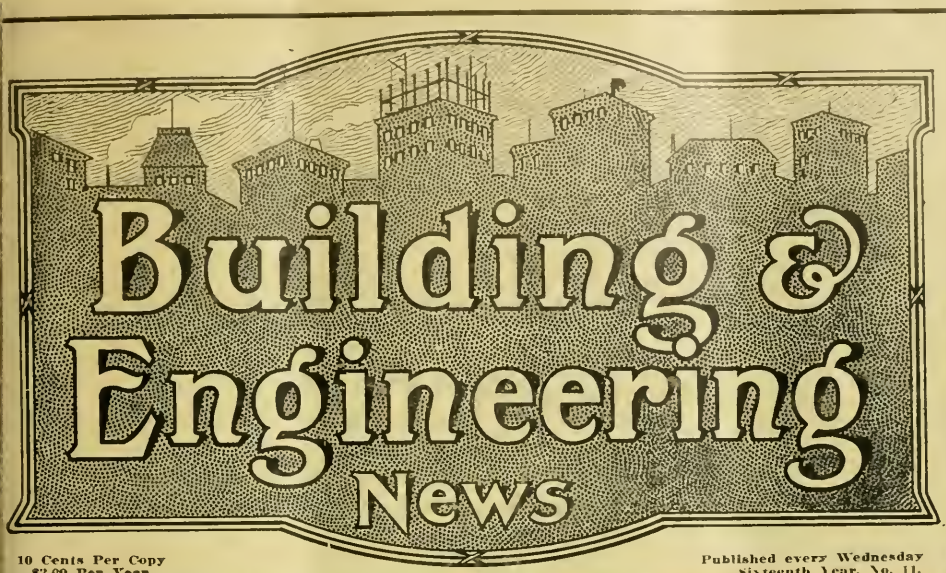
Secretary Irvine explains that this condition is produced by either actual or fancied grievances against the state highway commission. Opposition to the proposed issue is strong in Butte county, according to Irvine.

A committee of fifteen citizens recently charged the highway commission with bad faith in making promises it could not fulfill. The report suggests the organization of a central promotion and publicity bureau on behalf of the issue.

PAVING CONFERENCE IS HELD IN BERKELEY.

BERKELEY, Cal.—Following a consultation with W. A. Alberger, vice president and general manager of the San Francisco-Oakland Terminal railways, and other officials of the company, the city council reached a final conclusion on some paving matter which have been held up for some time and which were settled by the expression of willingness on the part of the car company heads to proceed with the paving on Bancroft way and Adeline street at once.

The paving of Dwight Way is being rushed to completion by the company. The paving of San Pablo avenue will not be taken up by the company at the present, as the cost is estimated at $230,000 which, officials say, is not now available.



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WOMAN'S DUTY TO PREPAREDNESS.

By Mrs. Lindon W. Bates. The following address delivered before the Woman's Section of the Movement for National Preparedness is worthy of note:

From the beginning of time among every people, woman has stood as the supreme symbol of what, being dependent, must be protected and, being mother of the race, must be conserved.

In man's upward struggle, he has fought one intermittent, never-ending fight. His life has been forever in pawn to what he held more sacred than life. War, in its elemental strife, arouses the lowest forces of the human animal, but it releases to his highest expression of surrender and of sacrifice. Self-preservation is the primal, intense instinct at the core of every heart, yet man defies each form of agony with simple readiness in defense of what lies deeper than self-preservation. What is it, whom is it in whose defense he thus lays down his life? It is woman—Woman and her children—the home. The temples of his gods and hearthstone of his family—these are the last words of sacredness to every man, and both in his soul are one. What the heartstone is to the individual the country is to the collective unit, for the country is the collective home, the collective refuge. Its emblem is the flag, since the flag is the very warp and woof of protection. The flag and the woman are inseparable. When man will not or cannot defend the flag the collective home is lost. We have it in half Europe, this spectacle of nations whose sons were unequal to their own defense. The fate of the women of Poland, Serbia and Armenia point a story whose lesson we well may heed.

With all that is involved for women in war, with all the forfeit man must pay for her safety, what is her duty in home guardianship and home protection? In her place of privilege, what are her responsibilities and how is she meeting them? The first duty is to help by every power within her to ward off war and its atrocities. Peace, security, international harmony and good will—these are conditions so invaluable that they must be built now upon such inviolability of national honor, and such guarantees of good faith as can enable them to endure. Women are the high priestesses of peace, and the danger is lest they sacrifice to it what is higher than peace—righteousness. There are worse things than war and woman must not warp standards, make man a coward to duty or, worse, betray him in principles and ideals vastly more precious than his life.

If woman is to be safe at any and every ultimate cost, she must be worth what she costs. **No woman who brings up her son on the policy that she did not raise her boy to be a soldier has a right to the defence of another woman's son.**

Considering only the duties of earnest women, where do their responsibilities lie? The very first lives sacrificed in war are the lives of the best, the finest, the most efficient. The young, the brave, the unselfish, the flower of each country are the first fruits of sacifice. The measure is set there to all women in balancing values and meeting responsibilities, of returning to mankind what mankind's finest pays for her. Is not this a lining upon which well may make even the most earnest woman ponder? With humanity's best at stake in possible war how large a chance is woman warranted in asking for defenselessness? Is it not primary justice that while peace problems and international movements are making trial of their hope the country shall not meanwhile be left imperiled? Shall we on blind faith and trust, hazard what we are impotent to restore, and gamble the safety of all that man has wrought? How today, with the spectacle of Europe holding us spellbound, with Lusitanias and Anconas at the bottom of the sea, shall women dare to bid America stand unafraid? When a nation can no longer defend its own blood, when the flag is no longer a shield to citizenship then there is no country, and the world is headed back to chaos. Man's responsibility and woman's are today alike in demanding that American be provided safety until the world be organized anew into order; in demanding that America be strong enough in her courage and in her equipment to defend in every land and on every sea her own citizens. Money is too slight a thing to be weighed against what money could never restore, regret is too hot a flame to be buried forever in a nation's heart.

We have come here—The Woman's Section of the Movement for National Preparedness—to help gather for our country the energies, the ardor and the devotion of united womanhood. Patriotism is not the fabled fountain defying all our quest; it is not the Grail, which one alone may see. It is the spring eternal locked in the heights of man's capacities. Open the heart and set it free, it flows through a million rills into the waiting vales and fertilizes all the way. Our Section has come to help water a land growing arid to its own need. We will work to make it blossom into the knowledge and fruit into the provision of adequate defense. What this adequate defense shall be we will not idly say. They who must defend us—the Army and Navy and the best specialists—these alone can speak with authority. The great organized bodies of men with whom we are aligned are setting forth this equipment side. Their literature goes through our channels to tell this story. Our woman's message is for the training of the young, for the spirit of the home, for quickening the national life, for unifying women. We stand all together for a safe America. **The duty**

of defense goes with the privilege of citizenship. Equality of service is linked to equality of protection—to woman must lie the sacrifice which both include.

This call for national safety and efficiency is woman's immediate duty to this country. What is her abiding duty to the world? Mankind in its upward battling has won some things which have been puchased through the blood of clans and peoples, races and civilization. These trophies of victory are a human treasury which we the latest heirs must consecrate and maintain. They must be prized in growing, not in lessening, loyalty. These treasures are represented not in material things—in wealth or monuments, cities or empires—these have passed leaving no vestige behind. What survives has become woven into language itself, in a living soul borne in a living speech from age to growing age—honor, courage, liberty, equality. The cumulative duty of woman is at the summit of attainment to stand guardian of these spiritual forces. If the mother teach not her child that he owes fealty to these at the price of life she has not made him worthy of life. If she teach not her children, girls and boys, that they owe personal service and sacrifice to ideals, she is not worthy of the race heritage. If she teach them not that Democracy is the supreme asset of mankind, the highest, the most sacred expression of collective right, she is not worthy of freedom; she has no part in expanding destiny. Democracy in Europe is in its death-grapple with militarism. Woman will not fail. In America she shall feel the pulse beating down three centuries of national life. Her influence shall carry to the alien the soul of her country. From her eyes has not gone the vision. In her spirit still dwells the dream. In this land of the worlds great hope she will breathe a fresh inspiration and prophecy. She will be strong for the triumph of Democracy. She will be worthy of defense, since in the chalice of her heart she will cover and guard the pledges of the divine. "For God is marching on."

STATE CORPORATION DEPARTMENT

SACRAMENTO, Cal.—Commissioner of Corporations H. L. Carnahan has authorized Los Angeles Harbor Warehouse Co. to issue 200 shares to H. R. Hay, Thos. B. Brown, Geo. C. Flint and C. H. Eubank in exchange for real property at Wilmington, and to sell and issue 1793 shares at par, $100 per share, for cash. The company proposes to build a warehouse on the property acquired by it.

Techau Tavern Ice Palace, Inc., formed for the purpose of constructing an ice skating rink upon leased premises at Eddy and Jones streets, San Francisco, has been permitted to issue 500 shares to Jos. Martin, J. M. Hotchkiss, Carlton H. Wall and A. C. Morrison at par, $100 per share, for cash.

The Hygienic Baking Co., San Francisco, is permitted to sell 10,000 shares at par, $10 per share, to net the company not less than 90% of the selling price. With the proceeds, the company proposes to pay the balance of the purchase price of its real property and to install additional equipment and delivery service.

Sullivan Tractor Co., Oakland, has been permitted by Commissioner Carnahan to issue 723 shares in exchange for all of the assets of the prior corporation of the same name, to issue 723 shares to Edw. F. Sullivan for services rendered in perfecting improvements in the farm tractors proposed to be manufactured by the company and to sell 4277 shares at par, $10 per share, so as to net the company not less than 85% of the selling price. With the proceeds of sale, the company proposes to pay off indebtedness of approximately $35,000, to purchase additional equipment for the improvement of its plant at a cost of $5,000 and to use the remainder for working capital and for further improvement of its factory. The company is taking over assets of the old company of the value of approximately $9,000. It is now manufacturing about four tractors per month and proposes to considerably increase its output.

Knights of Pythias Building Association of San Jose is permitted to sell 2500 shares at par, $10 per share, for the purpose of paying off an encumbrance on a lot upon which it proposes to build a hall for lodge purposes.

China Mail Steamship Co., Ltd., has been permitted by Commissioner of Corporations H. L. Carnahan to sell 99,985 shares of its capital stock at par, $21 per share, for cash, so as to net the company the full amount of the selling price. The company, which purchased the Steamship China last fall and has been operating it since the middle of October, proposes to engage on an extensive scale in the transportation of passengers and merchandise between the ports of San Francisco, China and the Hawaiian Islands. With the proceeds arising from the sale of its shares, the company proposes to pay off a mortgage of $150,000 on the Steamship China and approximately $150,000 other indebtedness, and to acquire additional vessels to be used in its business. The President of the company is Look Tin Ely, Manager of the Canton Bank, San Francisco.

Griffith Park Scenic Incline Co., Los Angeles, is permitted to sell 50,000 shares at par, $1 per share, to net not less than 80% of the selling price, and as the shares are sold to issue half the number of shares to Lewis Ginger in consideration of a license to operate an incline railway in accordance with Letters Patent owned by him and the transfer to the company of a municipal permit. The company proposes to build an incline railway in Griffith Park, Los Angeles, and it is estimated that not less than $25,000 will be required for the construction of the railway and cars to be operated on it and approximately $15,000 additional will be required for other improvements. The company is required to secure subscriptions for 25,000 shares prior to the 1st day of May, 1916, otherwise, all subscriptions may be concelled by the subscribers.

CORRECTION:—It was erroneously stated in a report from the State Corporation Department that Sullivan Tractor Co. of Oakland was permitted to sell certain shares for the purpose of paying off indebtedness of approximately $35,000. The statement should have been that the company proposes to pay off indebtedness of approximately $5,000, which is all of its liabilities, according to the statement presented to the department.

Yreka Owl Association, of Yreka, California, is permitted to sell 295 shares at par, $15 per share, to net the company the full amount of the selling price for the purpose of buying property and erecting a hall.

POSTPONEMENT OF VISIT OF COMMERCIAL ATTACHE.

It has been found impossible for Commercial Attache Julean H. Arnold, stationed at Peking, China, to leave his post, as orignally planned, in order to reach this country during April. The attache is engaged in making several important investigations, and a good deal of his time during the next few months is to be given to collecting material for the publication of a handbook on China. Mr. Arnold will consequently postpone his departure from China until late July or early August, which will make the date of his arrival in the United States in the neighborhood of Labor Day. No definite itinerary has yet been planned for him for visiting commercial organizations and branch offices throughout the country, but it has tentatively been decided that he will vist San Francisco, Los Angeles, Portland, and Seattle, proceeding to Washington by way of New Orleans.

PLAN RICE MILL.

YUBA CITY—The erection of a rice mill is planned by the Sutter Basin Co., which is developing 70,000 acres of tule land in Sutter County. The mill will be large enough to care for all the crops to be raised in Yuba and Sutter counties for several years to come and also to handle the crops from the company's own lands, which will be planted to rice as soon as reclaimed.

MEXICO NEEDS NEW SUPPLIES OF IMPORTED GOODS.

Stocks of nearly all classes of imported goods are very low in the Durango consular district, and in many cases are entirely exhausted. Consumers here most look to the United States for the supplies that are needed. Even for more than a year before the European war began, importations from Europe were restricted, and there are no records available of any such importations to this district since that time.

Manufacturing Plant in Monterey Closed.

Bolts, nuts, wire nails, and washers were bought from manufacturers in Monterey, but since that industrial plant is closed the supply must come from the United States. The scarcity of goods of the character is pronounced, and the demand will be very great when the mines, ranches, and industries commence operations again.

The use of enamel ware of all kinds is very extensive in this district, and includes washbowls, water pitches, soup dishes, dinner plates, and, in fact, every class of enamel ware for household use. The people have been educated to and are accustomed to the style, weight, and class of enameled goods manufactured in Germany. That country furnished almost the entire supply, because German manufacturers made a practice of finding out, through resident German merchants,

the style and class of goods suitable for the trade in each section of this country.

It is claimed that the American enamel ware, besides not being of the style and form to which the public is educated, is much heavier, chips more easily, and therefore does not last as long as the German make. Yet all this class of supplies must be furnished for the present by American manufacturers, because the European supply is cut off.

The packing of goods to be sent to Mexico is of great importance to the importer, on account of duties at the frontier. Where duties are on gross weight, including all outside and inside coverings, it is very important to the importer to have the packing done according to his instructions. A little care in examining the rates of the Mexican tariff, to see how the duties are assessed, whether on net weight or gross weight, as well as a request to the buyer for any special instructions he may have to offer concerning this matter, will be advantageous.

[Lists of importing houses in Durango, Durango and Torreon, Coahuila, Mexico, may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco, Cal. Refer to file No. 72583.]—Commerce Reports.

"SAFETY FIRST" WINNING EVERY DAY.

WASHINGTON, D. C.—"Safety First" is beginning to show substantial results in lives saved in the coal-mining industry, according to a statement made by Secretary Lane of the Interior Department. A report of the casualties in the coal mines for the year 1915, made by the Bureau of Mines, shows that:

The actual number of men killed is the lowest in the last eight years.

The death rate for each 1,000 men employed is the lowest in the last sixteen years.

The number of tons of coal produced for each miner killed is the largest in the entire history of coal mining in the United States.

Statistics gathered by the bureau show that more than three-quarters of a million men were employed in coal mining last year, and that of this number 2,264 were killed, which is 190 less than in 1914 and 521 less than in 1913. The death rate for each 1,000 men employed was 2.95, as against 3.22 in thet previous year and 3.73 the year before that. This means that as a result of the general safety campaign that has been proceeding for several years, there was one additional man saved in every four thousand employed as compared with the previous year; and three more men saved in every four thousand employed as compared with the year 1913. There were 228,799 tons of coal produced for every life lost as compared with 208,078 tons in the previous year.

"This is the most gratifying report the Bureau of Mines has been able to make since it was established," said Secretary Lane. "It indicates very forcibly to me that 'Safety First' has come to stay in the coal-mining industry and that it is being practiced more assiduously in mining camps than ever before. Every effort along this line spells lives saved, suffering lessened and poverty and want prevented. It is such a report as this that leads us to translate, as President Wilson did, 'Safety First' into 'America First,' for I do believe that today there is more regard in the United States for the welfare and safety of the workingman than in any other country in the world.

"It is especially gratifying that this movement is progressing so rapidly in an industry that is one of the greatest in the world. The United States today mines forty per cent of the entire coal of the world; as much coal as Great Britain and Germany combined; and employs as ever increasing army of men that has now reached beyond the three-quarters of a million mark.

"It is difficult to say what might have been had the various agencies throughout the United States not cooperated with the Bureau of Mines in the 'Safety First' movement. All we do know is that if, instead of decreasing, the death rate had continued to increase as it did up to the year 1907, there would be today several thousand more dead miners in the United States.

"While it is not possible to attribute this reduction of deaths to any one of the many agencies striving to reduce mine accidents, each deserves credit for the part it has taken in this work. The saving of lives has been the result of closer and more careful inspection by the state mine inspectors; the better enforcement of laws and regulations by the operators; the miner's realization of the dangers attending his daily work, and his own efforts to reduce accidents; the more general use of safety lamps in doubtful mines; the use of permissible explosives passed upon by the Bureau of Mines; the watering of dusty mines to keep down the dangerous coal dust; first-aid and rescue training, which save lives that otherwise might be lost by reason of injuries received; the enactment of industrial accident compensation laws; and last, but not least, the splendid spirit of co-operation on the part of all concerned.'

EXAMINATION FOR CLERK TO COMMERCIAL ATTACHE.

The United States Civil Service Commission announces an open competitive examination for clerk to commercial attache, for men only, to be given on April 5, 1916, at various places in the United States, and in Hawaii and Porto Rico. From the register of eligibles obtained from this examination certification will be made to fill vacancies that may occur in this position in the offices of commercial attaches in various foreign countries and in positions requiring similar qualifications in the Bureau of Foreign and Domestic Commerce at Washington. A salary of $1,500 is paid to the clerk to a commercial attache in a foreign country.

Applicants must have reached their twenty-first, but not their forty-first, birthday on the date of the examination. They will be examined in typewriting, report writing, arithmetic, copying and correcting manuscript, general commercial geography, and translation from one or more of the following languages into English: Dano-Norwegian, Dutch, French, German, Italian, Portuguese, Russian, Spanish, and Swedish. Those who so desire will also be examined in the optional subject of stenography, and competitors passing this test in addition to the required subjects will be given preference in appointment. A separate register will be made of eligibles qualified in each of the languages.

Persons who meet the requirements and desire this examination should at once apply for Forms 1124 and 1312, stating the title of the examination desired, to the United States Civil Service Commission, Washington, D. C.

RAILWAY CONSTRUCTION IN ARGENTINA.

The extension or improvement of various parts of the railway system of Argentina is specificallly authorized in four executive decrees published in a recent number of the Boletin Oficial. A branch line to Aminga from the station Aymogasta on the Argentine Northern Railway is to be constructed at a cost of 100,000 paper pesos ($42,460). At the station Cebollar, also on the Northern line, pipe lines are to be installed to furnish the necessary supply of water. On the Central Northern line, switching connections and signal and safety apparatus are to be installed at the stations of Laguna Paiva General Pinedo, and Urundel. A special sidetrack is to be placed at the station of Tilquicho on the Buenos Aires and Pacific Railway.

CLAIM AMERICAN BUSINESS MEN ARE NOT COURTEOUS.

Complaint is made from various sources that American business men do not take the time to write a few pleasant things in their letters, and thus fail to gain the attention of persons in foreign countries.

Be courteous always. Courtesy makes the rough places much easier, and helps to smooth away life's little difficulties. Courtesy is a business asset, a gain, and never a loss.

"Life is not so short but there is always time for courtesy."—Emerson.

INQUIRIES CONCERNING PHILIPPINES AND HAWAII.

The Bureau of Foreign and Domestic Commerce suggests to individuals or firms interested in commercial and industrial conditions in the Philippine Islands and Hawaii that inquiries they may wish to make, whether connected with articles appearing in Commerce Reports or not, be addressed in the first instance to the Bureau in Washington, D. C., rather than to the Bureau's correspondents in these places. The Bureau will answer such inquiries as far as possible from information in its own files, or in those of the Bureau of Insular Affairs of the War Department; and, in case this does not serve the purpose, will see that they are promptly referred to the offices in these islands that are in position to supply the information. As the Government offices in Washington will be able to answer many of the inquiries, this method will result in a considerable saving of time.

TO IMPROVE PROPERTY.

J. A. Hunts has applied to the Board of Public Works for a permit for permission to raze the one-story frame building at the southwest corner of Francisco street and Van Ness avenue. New improvement will be made on the site.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $17,000 Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, J. Lauray and J. Couragnet. Location, Leavenworth, 20 feet north of Broadway. Will contain 15 apartments of two and three rooms. Interior finish pine and white enamel. Some hardwood floors. Private baths and steam heat, oil burning system. Hot water system. Bath rooms composition floors. Wall beds. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner' name withheld. Location, southwests San Jose and 24th street. Will contain twelve suites of two and three rooms. Interiors finished in pine and redwood. Steam heat and hot water system. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and bids being taken.

SAN FRANCISCO—Apartment house, 4 story and base. Class C, brick, $65,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, north Geary between Leavenworth and Hyde streets, covering an area of 55 by 137½ feet. Will contain 80 rooms arranged in two and three room suites. Interior finish pine and hardwood with some hardwood floors. Steam heat, oil burning system, vacuum cleaning and hot water supply. Automatic elevator. Bath rooms finished in tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $12,000. Architect, Frank S. Holland, 100 Haight street, S. F. Owner's name withheld. Location, Octavia and Rose streets. Will contain a total of 12 apartments of three rooms and bath. Interior finish pine and hardwood with some hardwood floors. Gas steam radiators and hot water system. Wall beds. Composition floors in baths. Marble and tile wainscot. Brick veneer. Exterior cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 6 story and base, brick and steel, $110,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Goewey Investment Co. Location, southwest corner of Geary and Leavenworth streets, covering an area of 68 feet 9 inches by 77½ feet. Will contain a total of 110 rooms arranged in suites of two and three rooms. Interior finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, automatic electric elevators, hot water supply and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick and terra cotta. Preliminary plans being prepared.

SAN FRANCISCO—Apartment house and stores, 2 story and base, frame, $9,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, northe Geary east of 19th avenue, covering an area of 50 by 56 feet. Will contain two stores on the first floor and four small apartments on the upper floor. Interior finished in pine with some elm panels and hardwood floors. Open fire places and tile mantels. Patent store fronts. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, brick and frame. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's withheld. Location, southwest corner of 20th and Dolores streets. Will contain seven suites of three and four rooms with baths and sleeping porches. Interiors finished in pine, hardwood and white enamel. Open fire places and tile or brick mantels. Wall beds and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with brick veneer. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house and stores, 3 story and base, frame, $15,000. Architect, Earl B. Scott, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, corner of 16th and Capp street, covering an area of 35 by 90 feet. Will contain two stores on the ground floor and eight modern three room apartments on the upper floor. Interiors finished in pine. Gas steam radiators. Bath rooms composition floors. Hot water supply. Wall beds. Patent store fronts and marble bases and wainscot. Exterior covered with rustic. Plans complete and figures to be called for at once.

SAN FRANCISCO—Apartment house and stores, 4 story and base, brick and steel, $70,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, northwest corner of Sutter and Jones streets, covering an area of 55 by 68½ feet. Will contain six stores and a large number of two and three room apartments. Interior finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning system, hot water supply, automatic elevator and vacuum cleaning. Bath rooms tile and composition. Wall beds. M. B. patent store fronts and marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owners, Dempster Estate Co., Merchants' Exchange Bldg., S. F. Location, east Regent north of Stuart street. Will contain sixteen rooms arranged in two and three room apartments. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Wall beds. Exterior covered with cement plaster. Plans complete and work to be done under the direction of Donald P. Wingate, 2330 Carlton street, Berkeley, who is now taking subfigures.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $10,000. Architect, none. Owner, V. N. Strang, 1521 9th street, Alameda. Location, east Oak south of 10th street. Will contain eighteen rooms arranged in two and three room suites with private baths and wall beds. Interiors finished in pine, hardwood and white enamel. Hardwood floors and open fire places. Mantels tile. Bath rooms composition floors. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 2 story, attic and base, frame, $12,000. Architect, R. L. Holt, 2011 Shattuck avenue, Berkeley. Owner, Mrs. H. H. Watson. Location, Hilgard and Euclid. Will contain a number of two, three and four room apartments. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house and store, 3 story and base, frame, $15,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Howard street near 14th. Will contain one store and a total of eight apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Wall beds and steam heat. Hot water system. Composition floors in bath rooms. Patent store fronts. Exterior cavered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $12,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, southeast corner of Lake and 6th avenue, covering an area of 32 by 82 feet. Will contain six modern apartments of three and four rooms. Interior finish pine and elm panels with some white enamel and hardwood floors. Basement garage. Steam heat and hot water system. Wall beds. Bath rooms tile and composition floors. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister street. Will contain 15 apartments of two and three rooms with baths and wall beds. Interior finish pine and redwood. Hardwood floors. Steam heat and hot water system. Composition floors in bath

rooms. Exterior covered with cement plaster and rustic. Plans complete and figures to be called for at once.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Gough and Sacramento streets. Will contain six residential apartments of five rooms each. Interior finish pine and hardwood with some southern gum and white enamel. Hardwood floors. Steam heat, oil burning system and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Dumb waiters. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 2 story and base, frame, $30,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, northeast corner of Commonwealth and Geary street, covering an area of 108 by 82 feet. Will contain ten large apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Dumb waiters. Wall beds. Bath rooms finished in tile. Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 6 story and base, reinforced concrete, $65,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Van Ness avenue. Will contain a total of 35 apartments of two rooms each with bath. Interior finish pine, hardwood and southern gum. Hardwood floors. Bath rooms tile floors and wainscot. Steam heat, automatic elevator, dumb waiters, hot water supply and vacuum cleaning. Large social hall and reception room. Ornamental plaster. Marble and tile wainscot. Exterior faced with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base. Class C, brick, $30,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Van Ness avenue. Will contain a total of 15 suites of two and three rooms besides social hall and reception rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors and tile wainscot. Dumb waiters. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

BONDS

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—The proposition to vote bonds of $100,000 for the erection of a grade school building, making repairs to others and purchasing equipment, was defeated at an election recently held in this city.

FREEPORT, SACRAMENTO CO., CAL.—Preparations are being made to call a bond election to raise funds for the erection of a new school.

WINTERS, YOLO CO., CAL.—The $7,000 bond issue for a new city hall carried by a large majority, and the erection of a $12,000 building is now assured. The additional $6,000 has been appropriated by the County Supervisors.

ORLAND, GLENN CO., CAL.—Bonds of $7,000 were voted last week for the purchase of a civic center site. A $10,000 library and a new city hall will adorn the site.

BERELEY, ALAMEDA CO., CAL.—An energetic campaign has been started to raise funds for the erection of a $7,000 dispensary building for the Berkeley Dispensary, now located at University avenue and Ninth street.

MOJAVE, KERN CO., CAL.—The election held to vote bonds of $12,000 to provide for the erection of a school building carried without a dissenting vote. Plans for the structure have already been prepared by Architect Saffell of Bakersfield, and are now being considered by the trustees of the school.

LAKEPORT, LAKE CO., CAL.—The Clear Lake Union High School District last week voted bonds of $25,000 for a new high school. Every district gave a majority in favor of the issue. Plans for the structure will be ordered prepared shortly.

LODI, SAN JOAQUIN CO., CAL.—At the April election the citizens of Lodi will vote on the question of a municipally-owned street paving plant, the estimate cost of which is $8,000. It is probable that a $6,000 issue will also be voted for a new bath house.

SAN JOSE, SANTA CLARA CO., CAL.—The Board of Education is backing the proposition to vote bonds of $100,000 for grammar schools and $50,000 for a high school for San Jose. The Board will meet in the near future when it is thought that action will be taken to have the proposed issue placed on the April ballot.

LOS ANGELES, CAL.—Perrin, Drake & Riley, et al., were awarded the purchase of the remaining $1,736,000 of San Fernando Valley Irrigation District bonds.

LONG BEACH, LOS ANGELES CO., CAL.—Mass meetings are being held urging the City Commission to sell $50,000 worth of the Long Beach harbor bond issue of January, 1914, and expend the proceeds of the sale in dredging out the silt which now makes the channel unnavigable.

TERRA BELLA, TULARE CO., CAL.—The State Engineer's report on the Terra Bella Irrigation District, formed to irrigate orange lands south of Porterville, will be filed with the district officials about the middle of March, according to a report. Arrangements are being made for a bond issue. The improvements planned in this district will cost several thousand dollars.

MADERA, MADERA CO., CAL.—Plans have been approved for a concrete septic tank and a bond issue of $5,000 to construct the same will be called shortly by the trustees.

FRESNO, FRESNO CO., CAL.—The City Council has passed a resolution of intention to call an election to vote bonds of one-half million dollars for a sanitary and storm sewer system.

FAIRFIELD, SOLANO CO., CAL.—Bonds of $48,500 were voted here last week. The proceeds of the sale will be used in grading and macadamizing the streets of Fairfield. The plans and specifications call for a thirty-foot street of either oil macadam or cement. Bids will be advertised for as soon as the plans are finally adopted by the Board, the original plans being subject to slight changes.

PLACERVILLE, EL DORADO CO., CAL.—The proposition of calling a bond election for $35,000 to erect a new high school is meeting with favor here. It is probable that a date for the election will be set shortly.

MERCED, MERCED CO., CAL.—The High School Trustees have been asked to call an election to vote bonds in the sum of about $150,000 to secure a site, build and equip a union high school. A. W. Meany is principal of the high school.

OXNARD, LOS ANGELES CO., CAL.—A special election will be held in the Oxnard School District March 18, to vote bonds in the amount of $51,000 for purchasing sites and for erecting and equipping a new grammar school building. Architects Allison & Allison of Los Angeles have prepared preliminary sketches for the building.

DINUBA, TULARE CO., CAL.—An election will be held April 10th for the purpose of voting bonds in the sum of $10,000 to provide for municipal improvements as follows: A city hall to cost $7,000; a fire house and equipment, $2,500; and city jail, $1,100, of which the county will contribute one-half.

TURLOCK, STANISLAUS CO., CAL.—A movement has been started to secure a bond issue for $100,000 to acquire a site and erect a new high school building.

CALEXICO, IMPERIAL CO., CAL.—Blymer & Company of San Francisco have purchased the $130,000 municipal improvement bonds at a premium of $1,490. The funds thus provided will be used to improve the water and sewer systems, to construct a new fire house and for the purchase of additional fire apparatus.

TUCSON, ARIZ.—Resolution for the sale of the $300,000 bonds recently voted for the Mount Lemmon road have been passed by the Board of Supervisors.

ALPAUGH, TULARE CO., CAL.—A petition is being circulated for calling an election to decide whether bonds shall be issued to the amount of $283,000. These bonds are for raising money so that the irrigation district may acquire the water rights, canals, ditches, pumping plant and appurtenances of the Second Extension Water Company, and for the purposes of improving the same and developing and acquiring further water rights.

DOUGLASS, ARIZ.—An election to vote bonds between $750,000 and $1,200,000 for the construction of approximately 525 miles of highways in Cochise County, will be asked at the March meeting of the Board of Supervisors by a committee of taxpayers. The work has been outlined by County Engineer Ryan.

VISALIA, TULARE CO., CAL.—The Board of Supervisors of Tulare County has decided to call a special election to vote on the question of issuing bonds for the improvement of the county highways. It is proposed to provide sufficient funds to improve 108 miles of road with concrete base and macadam surfacing. The roadway will be eighteen feet wide. The amount of the bonds issue and the date of the election have not been set.

COVINA, LOS ANGELES CO., CAL.—Bonds in the sum of $106,000 were voted February 28th for a municipal water system. Consulting Engineer F. E. Trask, 616 Union Oil Building, Los Angeles, has prepared preliminary plans for a system including a battery of wells, reservoirs and pipe lines of 1", 5, 6, and 4-inch pipes.

SANTA MONICA, LOS ANGELES CO., CAL.—A bond issue in the sum of $72,-

000 was voted February 27th to acquire and improve the Domestic Water Company's system.

SEATTLE, WASH.—The voters have approved of the transfer of $285,000 in bonds from the East Waterway Improvement to be used in construction of the proposed Port of Seattle belt line railway from Spokane street to Salmon Bay.

The project is divided into the following units: East Marginal Way unit, $35,000; Whatcom avenue unit, $33,000; Central Waterfront unit, $52,000; North Waterway unit, $90,000. The sum of $75,000 is also appropriated for the purchase of a locomotive and construction of car shops, round house, etc., at the Spokane avenue terminals. J. R. West, chief engineer.

SANTA ANA, ORANGE CO., CAL.—A special election has been called by the Supervisors for May 3rd to vote on a bond issue in the sum of $150,000, of which $110,000 will be for bridges, including the following structures: 600-foot concrete bridge on State highway west of Orange; $10,000 for wood bridge at Yorba; $25,000 for lengthening the Olive bridge; $6,000 for new bridge at West Seventeenth street, Santa Ana.

SAN DIEGO, SAN DIEGO CO., CAL.—The Board of Supervisors has decided to ask the electors of the county to vote for rebuilding the county highway system, practically destroyed by the January storms.

Estimate of the amount required is to be furnished by County Surveyor Butler within the next few days, when the date of the election will be fixed. It is thought the amount will be in excess of $2,000,000.

BRIDGES, DAMS AND HARBOR WORK

CRESCENT CITY, DEL NORTE CO., CAL.—Harbor improvement. Cost not stated. Engineer's name not given. Owners, Del Norte County. Notices are being published in Del Norte County papers by the Board of Harbor Commissioners of Del Norte County which read in part as follows: Notice is hereby given, that the Board of Harbor Commissioners of Del Norte County, State of California, did on the 15th day of February, 1916, file with the Board of Supervisors of said Del Norte County, detailed plans and specifications for the best and most feasible plan of improving and developing and protecting Crescent City Harbor; also an estimate of the cost thereof, and the amount necessary to be raised by the issuance and sale of bonds of the said County of Del Norte to do the work, together with full and comprehensive report and findings of their investigation of said Crescent City Harbor. The matter will be taken up the Supervisors at their next meeting, March 8th. Further mention will be made of this work.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, reinforced concrete. Cost as follows. Engineers, Johnson & Mayberry, Santa Barbara. Owners, Santa Barbara County. The following bridge bids were opened by the Board of County Supervisors at the last meeting. The contract for the reinforced concrete bridge across Zaca creek at station 448-00, designed by Engineers Johnson & Mayberry, was let to Krug & Co. for $10,436. The next lowest bid was from Allison & Cole Construction Co. at $10,870. Munoz & Munoz of Los Angeles submitted the highest bid at $14,666. Engineers' estimate, $11,500. The bids on the Thomas three-hinged reinforced concrete skew bridge across Gaviota Creek at station 109-49 to 109-63 were: E. A. Garland, Santa Barbara, $13,690; J. C. Lillis, $13,700; Boardman Construction Co., $14,750; Ira Eskew, $14,850; Municipal Construction Co., $15,380; C. E. Cotton, $15,852; Munoz & Munoz, $16,366; Mercereau Bridge and Construction Co., $17,740; Mesmer & Rice, $17,657. Bids were taken under advisement. The bids on the second Thomas concrete arch bridge across Zaca Creek at station 103-65 to 104-79 were: J. C. Lillis, $12,900; E. A. Garland, $13,450; Whitlock & Gorrill, $15,730; Ira Eskew, $14,339; Boardman Construction Co., $14,400; Municipal Improvement Co., $14,570; C. E. Cotton, $15,470; Munoz & Munoz, $15,549; Mercereau Bridge and Construction Co., $16,560; Mesmer & Rice, $17,064. Bids were taken under advisement.

SEATTLE, WASH.—Bridge, steel and concrete, $300,000. Engineer, City Department of Engineering, Seattle. Owners, City of Seattle. Beers Building Co., Pittock Block, Portland, is said to be low on the entire contract for the proposed $300,000 Lake Washington Canal Bridge in Seattle. Unit prices were as follows: Excavation, $3.50 per yard; concrete (all three classes), $6.30 per cubic yard; reinforcing steel, $0.325 per pound; machinery, $1.125 per pound; structural steel, $1.055 per pound. Bids were submitted on the entire bridge by the Jahn Contracting Co., Pearson Construction Co., Puget Sound Bridge and Dredging Co., Nettleton, Bruce & Eachbach, Standifer-Clarkson Co., Porter Bros., J. M. Clapp, Booker, Kiehl & Whipple. J. R. Wood, Pennsylvania Bridge Co., Washington Paving Co. bid on the structure. Meacham & Babcock & Otis bidding on the sub-structures only.

ST. HELENA, COLUMBIA CO., CAL.—Bridges, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, St. Helena. Owners, Columbia County. Bids will be opened on April 7th at 2 p. m. for constructing the following steel bridges. One 100-foot span over Rock Creek in the town of Vernonia. One 67-foot span over Clatskanie River near town of Clatskanie. One 50-foot span over Tide Creek near the town of Deer Island. One 50-foot span over Beaver Creek near the town of Delana; or any of said bridges upon which the contractors may elect to bid.

SPOKANE, WASH — Bridges, reinforced concrete and steel. Cost as follows. Engineer, City Engineer Morton MacCartney, Spokane. Owners, City of Spokane. City Engineer Morton MacCartney has submitted a report and recommendation following two months' investigation of the bridge question here and advises the issuance of bonds in the sum of $358,500 for the construction of new structures and repairs. Preliminary plans indicate that the following new bridges will be necessary: Division street, concrete, $120,000; West Trent street bridge, concrete, $100,000; Post street bridge, concrete, $50,000; East Boone avesue bridge, steel, $40,000; Green street and waterworks bridges, steel, $23,500; Washington street viaduct, repairs, $45,000.

TACOMA, WASH.—Harbor improvements, $200,000. Engineer, Don B. Hylebos, 3017 South 11th street, Tacoma. Owners, Hylebos Creek Port Commission. Full details regarding the proposed dredging of Hylebos Creek and drainage of adjoining property, near this city, have been given out by Don B. Rohen, engineer for the Hylebos Creek Port Commission. Plans have been completed for the dredging of Hylebos Creek for a distance of about two miles, using the material for dike construction along the banks for about three miles. Three and a quarter miles of drainage ditches will be constructed and eight sluices of reinforced concrete to carry the water through the dikes. About 1,075 cubic yards of concrete and 74 tons of steel will be required for this. The dike along the creek will be 8 feet wide at the top. The work will cost $200,000. Bids on this work will be called for shortly.

Contracts Awarded.

SAN RAFAEL, MARIN CO., CAL.—Culverts, reinforced concrete. Cost as follows. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the following bids were received for building three concrete culverts on Watt avenue, one on C street near Mahan Creek and on Hayes street, and the railroad crossing: Marin Rock Co., $3,319.50; Crest & Heffernan of San Francisco, $2,875; Robert Pearson, $2,835; McRea & Lazay, $3,248; A. J. Fairbanks of San Francisco, $3,329; Gildersleeve Contracting Co. of Napa, $3,631; Mezzetti & Bottini, $4,050.80; Jos. Kappenmann, $2,500. The contract was awarded to Jos. Kappenmann, 491 4th street, San Rafael.

CHURCHES

SELMA, FRESNO CO., CAL.—Church, 1 story and base, brick. Cost not stated. Architect, Robert Orr, Van Nuys Bldg., L. A. Owners, Selma Christian Church. Built in form of an L, each wing being 56 by 34 feet. Will contain main auditorium, Sunday school rooms and social parlors. Interior finished in oak. Art glass windows. Furnace heat and open fire place. Exterior faced with pressed brick. Plans being prepared.

WHITTIER, LOS ANGELES CO., CAL.—Mausoleum, 1 story and base, steel and concrete. Cost not stated. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Will contain chapel and 500 crypts. Interior finish stone and cement. Plumbing. Exterior faced with cement plaster and granite. Ornamental bronze and plaster work and art glass. Plans complete and figures being taken.

Contracts Awarded

CONCORD, CONTRA COSTA CO., CAL.—Church, 1 story and base, frame, $5,700. Architect, Francis W. Reid, 1725 6th avenue, Oakland. Owners, Concord Presbyterion Church. Contractor, P. M. Sanford, 610 Macdonald avenue, Richmond. Contract price, $5,700.

COURT HOUSES.

OAKLAND, CAL.—Court house addition, 2 story and base, brick and steel, $100,000. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Location, 5th and Broadway. New addition to Hall of Records will be made on the north side of the present building. Extensive alterations to the old structure are included in the work. Plans are being prepared.

FACTORIES AND WAREHOUSES

Contracts Awarded.

LOS ANGELES, CAL.—Warehouse, 3 story and base. Class C construction, $30,000. Architect, Charles E. Shattuck, Mason Bldg., L. A. Owner, Ray Arnold. Contractors, The Alta Planing Mill Co., 830 McGarry street, L. A. Contract price, $30,000.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Owen Hughes, 2728 24th street, S. F. Location, west Cole north of Rivoli. Will contain two flats of four and five rooms. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $3,500 each. Architect, none. Owner, C. A. Rushton, 751 9th avenue, S. F. Location, west 9th avenue south of Cabrillo, covering areas of 25 by 58 feet. Each building will contain two flats of four and five rooms with bath. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, J. C. Kirby, 2152A Market St., S. F. Location, east 7th avenue north of Geary, covering an area of 25 by 52 feet. Will contain two flats of five and six rooms with baths. Basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, south Clara west of 5th avenue. Will contain two flats of four and five rooms with bath. Basement garage. Interior finish pine, redwood and white enamel. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

Contracts Awarded.

PORTLAND, ORE.—Garage, 2 story and base, brick and reinforced concrete, $40,000. Architects, McNaughton & Raymond, Title and Trust Bldg., Portland. Owners, White Co. Contactors, Beers Building Co., Pittock Bldg., Portland. Contract price, $40,000.

GOVERNMENT WORK & SUPPLIES

Quarters for Army Increase.

One of the problems which will have to be taken up by the military authorities in connection with the prospective increase in the commissioned personnel and the enlisted force of the Army is that providing quarters and barracks. This will, obvlously, require a special appropriation for the new construction involved, as well as the selection of places where the troops may be stationed. It is assumed that it will not be necessary to establish new Army posts, in which particular it is now realized that the "useless" and "political" Army posts, of which so much has been said and written in and out of Congress, have at last justified their existence. They are now found to have a very real use in providing reservations where the extra troops may be sheltered. It is probable that in the new construction which will be necessary a new policy will be adopted by the quartermaster general of the Army, resulting in a reduction in the expense which usually attaches to the erection of barracks and quarters. General Aleshire is in favor of providing temporary construction, of a type which is suggestive of the bungalow form. While this is described as "temporary" in character, it is believed that it will furnish sufficiently comfortable and commodious habitations for ten years or more. The type which is proposed will, of course, be much cheaper in cost than the permanent barracks and quarters. In the latter type of Army buildings considerable complaint has been made by Army officers regarding the expense of maintenance, most of the dwellings being larger or containing more rooms than are required by most Army officers, especially those of junior grade. Of course, it may not be necessary to begin this new construction at once, or within the next year even, since there are many posts where the barracks and quarters are available, owing to the absence of troops serving on the Mexican border. But, sooner or later, it will be necessary for Congress to make an appropriation and for the War Department to arrange for the construction in this direction. The situation suggests the possibility of the adoption of a new and less costly type of Army edifice.

San Francisco Circular No. 136.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office circular No. 136, opened February 12:

Bid 1. Paul Brant, 67 Main street, San Francisco, Cal.

2. The George Lawrence Co., Portland, Ore.

3. American-La France Fire Engine Co., 157 New Montgomery street, San Francisco, Cal.

4. California Artistic Wire & Metal Co., 349 7th street, San Francisco, Cal.

5. Gorham Fire Apparatus Co., 127 Mission street, San Francisco, Cal.

6. Pacific Fire Extinguisher Co., 507 Montgomery street, San Francisco, Cal.

7. Keyston Bros, 120 2nd street, San Francisco, Cal.

8. Handlan-Buck Mfg. Co., St. Louis, Mo.

9. M. J. McNally, 28 2nd street, San Francisco, Cal.

10. Pacific Hardware & Steel Co., 7th and Townsend streets, San Francisco, Cal.

11. National Lead Co., Merchants' Exchange Building, San Francisco, Cal.

12. Safety Insulated Wire & Cable Co., 589 Howard street, San Francisco, Cal.

13. Moise-Klinkner Co., 1212 Market street, San Francisco, Cal.

14. Western Electric Co., 680 Folsom street, San Francisco, Cal.

15. W. P Fuller & Co., Mission and Beale streets, San Francisco, Cal.

16. Crane Co., 2nd and Brannan streets, San Francisco, Cal.

17. John A. Roebling's Sons Co., 624 Folsom street, San Francisco, Cal.

18. Ralphs-Hugh Co., 502 Mission street, San Francisco, Cal.

19. Mangrum & Otter, Inc., 561 Mission street, San Francisco, Cal.

20. California Steam & Plumbing Supply Co., 671 5th street, San Francisco, Cal.

21. W. H. Johns-Manville Co., 2nd and Howard streets, San Francisco, Cal.

22. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

23. Universal Trading Co., 171 Broadway, New York City.

24. W. S. Ray Mfg. Co., 220 Market street, San Francisco Cal.

25. F. S. Johnson Co., 570 Howard street, San Francisco, Cal.

26. Pacific Refining and Roofing Co., 16th and Texas streets, San Francisco.

27. Paraffine Paint Co., 24 1st street, San Francisco, Cal.

28. Bennett Bros., 514 Market street, San Francisco, Cal.

29. C Roman Co., 55 New Montgomery street, San Francisco, Cal.

30. H. S. Crocker Co., 565 Market street, San Francisco, Cal.

31. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.

32. Standard Oil Co., 200 Bush street, San Francisco, Cal.

33. Holbrook, Merrill & Stetson, 6th and Bloxume streets, San Francisco, Cal

34. Patrick & Co., 560 Market street, San Francisco, Cal.

35. Whitier-Coburn Co., Howard and Beale streets, San Francisco, Cal.

36. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

37. Yates & Co., 762 Folsom street, San Francisco, Cal.

38. John Clark Saddlery Co., Portland, Ore.

39. Sherwin-Williams Co., 454 2nd street, San Francisco, Cal.

40. Whittaker & Ray-Wiggin Co., 776 Mission street, San Francisco, Cal.

41. Koenig & Zanetti, 1270 7th avenue, San Francisco, Cal.

42. Rucker-Fuller Desk Co., 739 Mission street, San Francisco, Cal.

43. I. E. Thayer & Co., 110 Market street, San Francisco, Cal.

44. Yawman & Erbe Mfg. Co., 712 Mission street, San Francisco, Cal.

Item 1. 50 sockets, key, ⅜-in—Bid 14, 21.15c ea; 31, 21.15c, accepted.

2. 24 prs handcuffs, "Tower"—Bid 8, $2.84 pr; 10, $2.81; 22, $3.20; 23, $2,79, accepted.

3 2,000 lbs paint, white lead, in oil, in 25-lb containers—Bid 11, 8 3-10c lb; 15, 7.93c; 37, 7.99c; 39, 7¾c; no award.

4. 4,000 lbs do, in 50-lb containers—Bid 11, 8 3-10c lb; 15, 7.93c; 37, $7.99c; 39, 7¾c; no award.

5. 9,000 lbs do, in 100-lb containers—Bid 11, 8 3-10c lb; 15, 7.93c; 37, 7.74c, accepted; 39, 7½c.

6. 4 carts, hose, 2-wheel—Bid 6, $77.-50 ea; 8, $120; 9, $77.50, accepted.

7. 1 refrigerator—Bid 10, $29; 19, $17.60; 22, $19 and $22; 33, $17, accepted.

8. 1 gr rings, curtain, brass—Bid 10, $1.60 gr, accepted.

9. 60 extinguishers, fire, per spec.—Bid 1, $8.50 ea; 3, $7.95; 5, $5.60, accepted; 6, $5.62½, $5.25 and $8.75; 18, $7.90; 23, $8.23.

10. 18 cans grease, axle—Bid 2, 6¾c can; 10, 7c; 15, 5c, accepted; 22, 7c; 25, 8c; 32 6¾c; 35, 6c.

11. 10 links repair, 3-16 in—Bid 25, 15c lot, accepted; 36, 50c.

12. 8 lbs wire, stone—Bid 10, 15c lb, accepted.

13. 36 cocks, air, ¼-in—Bid 10, 15c ea, accepted; 16, 26c; 20, 18c; 33, 33c; 36, 23c.

14. 36 discs, valve, ¾-in—Bid 16, 4c ea, accepted; 22, 20c; 33, 4c.

15. 24 do, 1-in—Bid 16, 1 8-10c ea; accepted; 22, 22c; 33, 5c.

16. 18 do, 1½-in—Bid 16, 9 6-10c ea; accepted; 22, 40c; 33, 10c.

17. 3 valves, safety, cross—Bid 16, $1.22 ea, accepted; 20, $1.46.

18. 500 ft cord, lamp, No. 16—Bid 12, $1.64 per 100 ft, accepted; 14, $1.79 1-10; 17, $1.68 2-10; 22, $2.48; 31, $1.74½.

19. 250 ft conduit, flexible, ¼-in—Bid 14, 24.9c ft; 22, 17.8c; 31, 17.73c, accepted.

20. 10 rosettes, porcelain, cleat—Bid 14, 10.12c ea; 22, 8½c, accepted; 31, 93.6c.

21. 30 do, concealed—Bid 14, 10.12c ea; 22, 8½c, accepted; 31, 9.36c.

22. 50 sockets, keyless, porcelain—Bid 14, 82.6c ea, accepted; 22, 82.7c; 31, 84.3c.

23. 500 ft wire, copper, r. c. No. 10—Bid 12, $23.16 M ft, accepted; 14, $24; 17, $23.20; 31, $23.20.

24. 150 ft do, No. 14—Bid 12, $10.60 M ft, accepted; 14, $16.90; 17, $12.40; 31, $16.35.

25. 2,000 ft wire, copper, weatherproof, No. 14—Bid 14, $33.15 cwt, accepted; 17, $33.15; 31, $35.15.

26. 3 doz boxes eyelets, Challenge—Bid 30, $2 doz boxes, accepted.

27. 4 jacks, wagon, 4,000-lbs capacity—Bid 8, $4 ea; 10, $3, accepted; 22, $3.15; 36, $3.20.

28. 432 snaps, double, 3-in — Bid 2, $6.52 gr; 28, $6.90; 7, $9; 10, $10.80; 25, $5.39, accepted.

29. 17 irons, branding—Bid 4, $4 ea; 11, $1.90; 8, $1.76; 13, $2.10; 34, $1.65, accepted.

30. 206 lanterns, complete—Bid 8, 47½c ea; 10, 56c; 18, 53c; 22, 56c; 24, 59c; 33, 46c; 36, 50c; no award.

31. 12 bags, saddle—Bid 2, $7.70 ea, accepted; 7, $9.50; 38, $8.50; 25, $11.

32. 30 squares roofing—Bid 35, $1.65 sq; 36, $2.10½; 8, $3.77; 10, $2.10; 43, $2.10 and $1.95; 15, $1.26, accepted; 21, $1.50; 22, $1.30 and $2.27; 26, $1.45; 27, $1.85; 28, $2.81; 29, $1.50; 33, $1.93.

33. 4 pots, stock, 5-gal—Bid 36, $3.31 ea; 33, $2.28, accepted.

34. 4 pans, bake, 20x30 in—Bid 24, $2 ea; 33, $2, accepted.

35. 4 dishes, meat, 20-in—Bid 24, 60c ea, accepted.

34a. 500 folders, vertical filing—Bid 34, $2.75 per 100; 42, 62c and 90c; 44, $3, $1.80, and 84c, accepted.

35a. 120 pkgs ink, powdered, black—Bid 23, 12 4-10c pkg; 40, 10c, accepted.

36. 60 pkgs do, red—Bid 23, 12 4-10c pkg, accepted; 40, 20c.

San Francisco Circular No. 139.

The following bids were received and award made by the depot quartermaster, San Francisco, Cal., under office circular No. 139, opened February 23, for 2 tail shafts for mine planter "General Knox".

Bid 1, Seattle Machine Co., Seattle, Wash., $1,648 lot, with steel nuts, and $1,698 lot, with bronze nuts; delivery in 12 days.

2. H. E. Gray, Chronicle Building, San Francisco, Cal., $997.50 ea; 140 days.

3. Moore & Scott Iron Works, 672 2nd street, San Francisco, Cal., $600 ea; 15 days.

4. Main Street Iron Works, 163 Main street, San Francisco, Cal., $583 ea; 16 days, accepted.

5. Hefferman Engine Co., Seattle, Wash, $745 ea; 34 days.

6. Seattle Construction & Dry Dock Co., Seattle, Wash., $930 ea; 24 days.

7. Union Iron Works Co., 311 California street, San Francisco, Cal., $1,475 lot; 21 days.

8. Bethlehem Steel Co., San Francisco, Cal., $825 ea; 210 days.

Cost of Naval Radio Stations.

The final cost of the installation of the naval radio stations will be one-third more than was originally estimated, which is not surprising in view of the fact that at the time the figures were presented to Congress very little was known of the cost of equipment or the expense of installation. Contracts have now been awarded for the radio equipment for the stations at San Diego, Pearl Harbor and Cavite. The limit of total expense is now placed at $1,500,000. It is believed to be still necessary to make provision for the initial shore stations, notwithstanding the existence of these large high-power stations, because last year it was found necessary to establish another station in Alaska; that is, it may be found advisable to abandon one or two stations and establish a new station at another point and purchase land, such as was the case in Alaska. In a year or two this particular item, amounting to $10,000, allotted for the purchase of land for sites for radio shore stations, may be omitted. By that time it is expected to have the high-power stations in full operation, with the whole chain, the coast and the high-power stations, so interlaced that it will be possible to know exactly what is needed in the way of future installation.

Leadville, Colo., Repairs.

The following bids were received by the custodian, U. S. post office, Leadville, Colo., recently for repairs to the main entrance, etc., of the above building:

The Potters Lumber Co., East Liverpool, Ohio, $3,370; 90 days.

Engene Robitaille, Leadville, Colo., $3,936; 90 days.

The C. S. Lambie Co., Denver, Colo., $6,000; 60 days.

Light House Service, Lumber.

The following bids were received by the light house inspector, 16th district, Ketchikan, Alaska, for furnishing fir lumber for Cape St. Elias light station, Alaska:

Port Blakely Mill Co., Port Blakely, Wash., $726.91; bid not signed.

Ajax Lumber & Pole Co., Seattle, Wash., $717.44.

Schwager-Nettleton Mills, Seattle, Wash., $743.61.

Stetson & Post Lumber Co., Seattle, Wash., $708.83; accepted.

Tender Kukui, Repairs.

The following bids were received by the light house inspector, 16th district, Seattle, Wash., for repairs to tender Kukui:

Leighton Engineering Co., $2,397.26; 30 days.

Puget Sound Navy Yard, $1,530.50; 7 days, accepted.

Hall Bros. Marine Railway & Shipbuilding Co., $1,740; 12 days.

Seattle Construction & Dry Dock Co., $2,493; 14 days.

Government Business.

The following extract from a letter from the paymaster general of the Navy to a member of the naval consulting board throws an interesting sidelight on the question as to whether or not the government's business should be attractive to reliable commercial concerns:

"I believe it would also be productive of good if any concern not now engaging in government business would frankly state the reasons why. I do not mean that we have reached the ultimate ideal of perfection in our business dealings, but I am perfectly certain that the business dealings with the Navy Department do not deserve the opinion held by many concerns in the country regarding government business. I should like to go over this matter with you some time, and I am sure I can point out that the points regarding which most complaint is heard are not defects in any way, but rather virtues. For example, many bidders complain of the strict government inspection. The whole basis of the competitive system is to fix all elements of quality, leaving only one element, the price, undetermined. Under this condition, it is but fair to other bidders to make the successful bidder furnish exactly what was called for. A rigid inspection is no more in the interest of the government than it is in the interest of every honest bidder. You will readily see the opportunities for favoritism, fraud and much worse condition if this policy were not followed absolutely. I merely suggest this inquiry for your consideration, but if any concern is sufficiently interested in government business to take up the matter by a personal visit or by correspondence, I feel satisfied that so far as the Navy Department is concerned no reasonable cause will arise for unsatisfactory business relations."

Quarantine Hospital for Buenaventura.

The government of Colombia is authorized by a recent law published in the Diaro Oficial to erect a temporary quarantine hospital at Buenaventura, where persons suffering from yellow fever or other epidemic may be isolated pending the construction of the proposed sanitary station [see Commerce Reports for January 22, 1916]. The law specifies that a structure for the quarantine hospital may be ordered by cablegram from a foreign country, and it must be ready to be put together and set up in the shortest time possible. In addition to temporary measures, plans for the complete and permanent sanitation of Buenaventura are now under consideration.

Sun River Project.

The Secretary of the Interior has authorized the Reclamation Service at Washington, D. C., to execute contract with the Des Monnes Bridge & Iron Works, of Des Moines, Iowa, for furnishing and erecting highway and pipe bridge for the Sun River Irrigation project, Mont. The bid of the com- $7,000, not including freight, with

63-day delivery and $2,000 for erection, for completion in forty-two days. The Sun River project is located near Great Falls Mont., and includes about 40,000 acres of fine farm land, which will be made available for homestead entry in the near future.

HALLS AND SOCIETY BUILDINGS.

OAKLAND, CAL.—Club house, 2 story and base, frame, $11,000. Architect, A. W. Smith, 1010 Broadway, Oakland. Owners, Oakland Women's Club. Location, Bay Place and Montecito. Will contain social rooms, large meeting room, gymnasium and offices. Interior finish pine and hardwood with hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans being prepared.

FRESNO FRESNO CO., CAL.—City hall alterations, 2 story, brick. Cost not stated. Architect, Eugene Mathewson, Fresno. Owners, City of Fresno. Plans will provide for the removal of the entire police department to the west and north side of the upper floor, a steward's room, two operating rooms and two ward rooms in a bigger emergency hospital. Complete plans and specifications with an estimate of the cost will be submitted at the next meeting of the City Council, when the Clerk will probably be instructed to advertise for bids.

BURBANK, LOS ANGELES CO., CAL.—City hall, 2 story and base, brick. Cost not stated. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Besides the various city offices the building will contain a library, quarters for the fire department and police department. Interior will be finished in pine and hardwood with some maple floors. Furnace heat. Exterior faced with pressed brick. Special jail equipment. Plans being prepared.

Contracts Awarded

YREKA, SISKIYOU CO., CAL.—City hall, 1 story and base, reinforced concrete. Cost not stated. Architect, none. Owners, Town of Yreka. Contractor, C. L. Noel, Yreka. Contract price not stated.

HOSPITALS

SAN FRANCISCO—Hospital addition, 5 story and base. Class A construction, $500,000. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Leland Stanford, Jr., University. George Wagner presented the low figures for the general construction and will probably be awarded the contract. A large number of bids was received for the various parts of the work. A complete list of the figures as opened appears under the heading of San Francisco in this issue.

SAN FRANCISCO — Health department and hospital, 4 story and base. Class A construction, $200,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, Polk and Ivy streets, Civic Center. The building will conform to the architecture of the City Hall. The first and second floors will be used for a Central Emergency Hospital and will be erected at once. The two additional stories will be added later. Exterior will be faced with pressed brick and granite. Plans are being prepared.

SAN FRANCISCO—Hospital addition, 4 story and base. Class A construction, $380,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids will be received by the Board of Public Works on March 22nd for the general construction, brick and terra cotta work, heating and ventilating for the northeast wing of the San Francisco Hospital. Plans can be secured from the architect. Official proposals appear in this issue.

LIVERMORE, ALAMEDA CO., CAL.—Hospital cottages, 1 and 2 story and base, frame, $50,000. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Plans are being prepared for the first unit of the County Tuberculosis Hospital. Each cottage will accommodate from 20 to 40 patients. Interiors will be finished in pine and redwood. Central heating system and hot water supply. Exterior faced with shingles or cement plaster. Plans being prepared.

Contracts Awarded.

SAN FRANCISCO—Hospital vacuum cleaning, $1,241. Architect, City Dept. of Architecture, City Hall. Owners, City and County of San Francisco. Contractors, E. L. B. Zimmer Vacuum Cleaning Co. Contact price, $1,241.

NAPA, NAPA CO., CAL.—Hospital cottage alterations, frame and concrete, $12,425. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Contractors, Paramount Building Co., 45 Kearny street, S. F. Contract price, $12,425.

SEATTLE, WASH.—Home, 3 story and base, brick and frame, $30,000. Architect, B. Marcus Pretica, Pantages Theatre Bldg., Seattle. Owners, Jewish Settlement Home. Contractors, E. J. Rounds Construction Co., Walker Bldg., Seattle. Contract price, $30,000.

ICE RINK.

SAN FRANCISCO—Ice rink, 1 story and base. Class A construction, $10,000. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Techau Tavern Ice Palace Co. Location, north Eddy east of Jones, covering an area of 37½ by 137½ feet. Complete steel frame and reinforced concrete walls. Special machinery contract awarded to Faget Engineering Co., 354 Pine street at $25,000.

IRRIGATION PROJECTS

SACRAMENTO, CAL. — Reclamation work, $1,500,000. Engineer, State Reclamation Board, Sacramento. Owners, State of California. The State Reclamation Board by resolution ordered the construction of the east levee of the Sutter bypass, which will extend from the mouth of Butte slough at the foot of the buttes to the river, about 22 miles. The time when the work will commence and the cost thereof depends upon the report of the State flood control engineer, who was directed, also by resolution, to make an inspection of the projected levee to ascertain the cost and other data on the levee. It is estimated that the cost together with such additional work as will be entailed by the levee, will be between $1,500,000 and $2,000,000.

POWER IMPROVEMENTS

SAN RAFAEL, MARIN CO., CAL.—Water main extension. Cost as follows. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The following bids were received for furnishing cast iron pipe for the extension of the salt water mains from A and 2nd streets to E street and H street: U. S. Cast Iron Pipe Co., $2,250 for 53 tons at $40 a ton, and fittings; Geo. W. McNear, $2,216.50, at $39.40 a ton. The contract was awarded to Geo. W. McNear.

WISHKAH, WASH.—Water system, $400,000. Engineer, Louis D. Kelsey, Aberdeen. Owners, Town of Wishkah. Bids will be received until March 22nd by the City Council of Aberdeen, P. F. Clark, Clerk, for materials involved in the construction of the Wishkah water system for that city. The materials wanted at this time are 250,000 ½-inch steel bands for 28-inch pipe; 250,000 iron band shoes; 2,000,000 feet of finished pipe staves; 55,000 feet of lumber; 25,000 pounds of band iron, 270 air, gate and vacuum valves, 5 sluice gates, etc.

SAN FRANCISCO—Power plant, 1 story and base, reinforced concrete and steel, $100,000. Engineer, Engineering Dept. Great Western Power Co., 14 Sansome street, S. F. Owners, Great Western Power Co. Location, Bush street west of Grant avenue. Will be 60 feet high, complete steel frame, reinforced concrete walls and floors. Metal window sash and frames. Metal covered doors. Special machinery and equipment not included in contract. Exterior faced with cement plaster. Plans complete and figures being taken.

RAILROAD CONSTRUCTION AND EQUIPMENT.

Contracts Awarded.

EUREKA, HUMBOLDT CO., CAL.—Railroad construction. Cost not stated. Engineer, Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Contractors, Twohy Bros., First National Bank Bldg., S. F. Contract covers the construction of 260 miles of railroad from Eureka to Coos Bay, Ore. William Hood is the Chief Engineer in charge.

RESIDENCES.

SAN FRANCISCO—Residences, 6, 2 story and base, frame, $2,000 each. Architect, none. Owner, Thomas Hamill, 5535 Geary street, S. F. Location, west 24th avenue north of Balboa. Each house will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 3, 2 story and base, frame, $2,000 each. Architect, none. Owners, Leigh & Schulz, 419 21st avenue, S. F. Location, east 18th avenue north of Judah. Each house will contain five rooms and bath. Interiors finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 4, 2 story and base, frame, $7,500 to $12,000. Architect, E. P. Antonovich, Monadnock Bldg., S. F. Owner's name withheld. Location, Claremont Court. Architect Antonovich has just been appointed supervising architect for the Claremont Tract, a large and restricted subdivision. Four new dwellings are to be erected at once. Details will be given as soon as working drawings are under way.

SAN FRANCISCO—Residence, 2, story and base, frame, $2,000. Architect, none. Owners, Finance and Realty Development Co., Phelan Bldg., S. F. Location, east 44th avenue south of Geary. Will contain five rooms and bath. Interior finish pine and redwood with some hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $10,500. Architect, none. Owner, W. W. Rednall, 2500 Filbert street, S. F. Location, northeast northeast Lyon and Green streets, covering an area of 29 by 60 feet. Will contain ten rooms, three baths and sleeping porch. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with brick veneer and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Location, north Damuth east of Lincoln. Will contain five rooms and bath. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. S. Hanson, 1633 Josephine street, Berkeley. Location, north Parker east of Mabel. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Charles D. Hart, 615 22nd street, Oakland. Location, northeast 38th avenue and Kanning. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $1,600. Architect, none. Owner, John Kundert, 117 Athol avenue, Oakland. Location, west 25th avenue north of East 22nd street. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owner, J. F. Whalen, 1748 Broadway, Oakland. Location, north Santa Clara avenue west of Valle Vista. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors and open fire places. Mantels tile and brick. Bath rooms composition. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Frank Cardoza, 1263 82nd avenue, Oakland. Location, west 95th avenue south of A street. Will contain five rooms and bath. Interior finish pine. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, none. Owner, William Oszdorff, 125 Guerrero street, S. F. Location, northeast corner Claremont and Oakvale avenues. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, hollow tile, $4,500. Architect, none. Owner, C. L. Katzenstein, 1229 P street, Sacramento. Location, 1100 Maple avenue. Will contain seven rooms rooms, bath and sleeping porch. Interior finish pine andwood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Exterior covered with cement plaster. Automatic water heater. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence repairs, $1,500. Architect, none. Owner, Campbell Briggs, 3315 J street, Sacramento. Location, 1708 K street. Work will consist of new interior finish, hardwood floors, plumbing, electric work, plastering and painting. Exterior will be covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, T. J. Reese, 1298 Elmhurst street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 5, 2 story and base, frame, $3,000 each. Architect, D. C. Coleman, Merchants' National Bank Bldg., S. F. Owners, Caldwell & Sons, 110 Jessie street, S. F. Location, east 43rd avenue north of Fulton. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, southern gum and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,600. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, southwest Balboa and 15th avenue. Will contain six rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. R. Lippincott, 3014 35th avenue, Oakland. Location, east Patterson north of Hopkins. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Composition floor in bath. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 1 story and base, frame, $2,500 each. Architect, none. Owner, C. H. MacGregor, 470 13th street, Oakland. Location, west 14th avenue north of East 38th street. Each dwelling will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, AUAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, east Eton north of Claremont. Will contain nine rooms and bath. Interior finish pine and redwood. Open fire places. Mantels tile. Exterior covered with rustic and shingles. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, J. Henry Wolbold, First National Bank Bldg., Berkeley. Location, south Sonoma west of Tulare. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, J. A. Kellogg, 3404 Champion street, Oakland. Location, west Pomona south of Main. Will contain five rooms, bath and sleeping porch. Interior finish redwood throughout. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, J. F. Chambers, 206 Plaza Bldg., Oakland. Location, east View street north of Mather. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some

white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,200. Architect, none. Owner, F. F. Wood, 157 Lake avenue, Oakland. Location, north Pippin east of Pear. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, E. R. Williams, 1236 37th avenue, Oakland. Location, east Laguna avenue south of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PORTLAND, ORE.—Residence, 2½ story and base, frame and plaster, $25,000. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owner's name withheld. Location, Elk Rock Terrace. Will contain twelve rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heating system and open fire places. Mantels tile and marble. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

PORTLAND, ORE.—Residence, 1 and 2 story and base, frame, $25,000. Architect, A. E. Doyle, Worcester Bldg., Portland. Owner, Col. Henry Cabell. Location, near Washington City Park. Will contain twelve rooms, three baths and sleeping porch. Interior finished in hardwoods and white enamel. Hardwood floors. Open fire places and steam heat. Hot water system. Mantels tile and brick. Bath rooms tile. Exterior covered with cement plaster. Plans nearly complete.

Contracts Awarded.

FERNDALE, HUMBOLDT CO., CAL.—Residence, 2 story and base, frame, $3,850. Architect, Frank T. Georgeson, Eureka. Owner, Dr. A. M. Dinsmore. Contractors, James Scott and Matt Olsen, Eureka. Contract price, $3,850.

SCHOOLS

OAKLAND, CAL. — School addition, frame. Cost not stated. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, City of Oakland. Bids will be received on March 16th at 8 p. m. for constructing two frame additions to the Lakeview School. Plans and specifications can be secured from the architect.

ALAMEDA, ALAMEDA CO., CAL.—Schools, 2, 2 story and base, brick and concrete. Cost not given. Architects, Cunningham & Politeo, First National Bank Bldg., S. F., and Henry H. Meyers, Kohl Bldg., S. F. Owners, City of Alameda. A large list of bids was received for construction at the Lincoln and Washington Schools. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

ROSEVILLE, PLACER CO., CAL.—School additions, 2, 1 story, frame. Cost not stated. Architect, none. Owners, City of Roseville. Bids will be received until March 18th for constructing additions at two of the city schools. Plans and specifications can be secured from the Clerk of the Board of Education.

CHICO, BUTTE CO., CAL.—School swimming pool, reinforced concrete. Cost not stated. Architect, none. Owners, State of California. A reinforced concrete swimming tank will be erected at the Chico Normal School. Work will be done by Day Labor. The tank will be 25 by 60 feet.

DALY CITY, SAN MATEO CO., CAL.—Schools, 3, 1 story and base, frame and concrete, $75,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, Daly City. The architects have been commissioned to prepare plans for three new buildings, two to contain four class rooms and one to contain eight class rooms. Construction depends on the carrying of a bond issue, but it is stated that the people are strongly in favor of the proposed issue and that it will be sure to carry. Further mention will be made of the work.

FRESNO, FRESNO CO., CAL. — School equipment and supplies. Cost not stater. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Until noon March 25th bids will be received by the State puchasing agent, room 87 State Capitol Bldg., Sacramento, for furnishing the following equipment, or any part thereof, for the State Normal School at Fresno: Shades for 398 windows, more or less; rugs, 45, more or less; steel lockers, 367, more or less; auditorium and lecture room chairs, 1100, more or less; desks for pupils, 180, more or less; cafeteria equipment, model household equipment, domestic science equipment, manual training equipment, physiological equipment, physical equipment, bacteriological equipment, biology equipment, chemical apparatus, gymnasium equipment, furniture for faculty room, rest rooms, etc. Certified check for 10 per cent, payable to State of California. W. G. McMillan, purchasing agent.

Contracts Awarded.

EL CENTRO, IMPERIAL CO., CAL.—School, 2 story and base, reinforced concrete, $80,318. Architect, S. B. Zimmer, El Centro National Bank Bldg., El Centro. Owners, El Centro Union High School District. Contractor, Geo. Herz, El Centro. Contract price, $80,318, general construction. Plastering awarded to M. W. Anderson, El Centro, $8,786.

SEWERS, STREET WORK & WATER SYSTEMS

SEATTLE, WASH.—Brick pavement, $180,000. Engineer, County Surveyor A. F. Denton, Seattle. Owners, King County. Plans have been completed in the office of County Engineer A. F. Denton, and forwarded to the State Highway Commission, Olympia, for approval, for the paving with brick of ten miles of permanent highway from the city limits at 14th avenue south to Des Moines, Wash. The work will probably be ready for contractors the first of next week.

RITZVILLE, WASH.—Road construction, $54,164. Engineer, F. R. Hewitt, Ritzville. Owners, Adams County. Bids will be received by the Commissioners of Adams County until March 20th for the grading, graveling, etc., of 12½ miles of permanent highway No. 2-A between Lind and Ralston, Wash. The work consists of the following: Common excavation, 13,250 cubic yards; solid rock, 2,490 cubic yards; common borrow, 5,556 cubic yards; overhaul, 3,660 cubic yards; side surfacing, 37,500 feet; gravel in place, 21,178 cubic yards; spreading metallic surface, 66,181 feet, etc. Work also includes construction of seven reinforced concrete arch bridges. Estimated cost, $54,164. Plans are on file in the office of F. R. Hewitt, construction engineer, at Ritzville, Wash.

SAN RAFAEL, MARIN CO., CAL.—Road construction, $13,000. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors four bids were received for the Willow Camp road—along the east side of Bolinas Bay from Willow Camp to the San Rafael-Bolinas road—a distance of 4.6 miles. Macrae & Layaz of San Francisco, $21,500; Marin Rock Co., San Anselmo, $17,000; A. J. & J. L. Fairbanks, $16,511.60; Peterson & Grier, San Francisco, $14,940. The cost of all the work is more than the Board desires to put in the road, and it was decided to eliminate three sections of the road—section 1 in from of the McKinnon property, and sections 11 and 12 on the Willow Camp end of the road, as these portions of the present road are in pretty good shape. This reduces the cost to less than $13,000 and the contract was awarded to Peterson & Grier, 62 Post street, San Francisco.

SALINAS, MONTEREY CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer Davies, Salinas. Owners City of Salinas. City Engineer Davies was instructed at the last meeting of the City Council to draw up plans and specifications for the improvement of John street from the east line of Main street to the west line of Front street, to be paved with hydraulic concrete base and a two-course asphalt and screening wearing surface, with concrete curbing and gutters. Further mention will be made of this work.

PALO ALTO, SANTA CLARA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The City Council at a special meeting last week settled the question of the kind of street paving to be laid, and decided, upon the Board of Works recommendation, to lay a half-inch sand and oil coating on a five-inch concrete base. The streets to be paved are as follows: Webster and Cowper streets for their entire length; Addison, Lincoln and Homer avenues for their entire length; one block of Scott street; one block of Gilman street; four blocks on Kippling street; Bryon street from Lytton avenue to the creek; Middlefield road from Melville to Embarcadero; Everett avenue from Middlefield to the creek; Fulton street from Lytton to the creek; Forest avenue from Middlefield to Hale; Guinda from Hamilton to the creek; Tasso street from University to Lytton; Ruthven avenue from Waverly to Cowper, Lytton avenue from Middlefield to Guinda. This makes approximately seven miles of pavement to be laid. Further mention

will be made of this work when bids are called.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. The Supervisors at their meeting last Monday took up the matter of the construction of the Hillsborough to Halfmoon Bay road. Surveyor James W. Neuman presented plans and specifications for that portion of the above road between the Hillsborough city limits and the Poor Farm road. The new road is to consist of a five-inch concrete base with an asphaltic oil wearing surface. The plans and specifications were adopted. Surveyor Neuman also presented plans and specifications for a six-inch macadam road for that portion between Crystal Springs road and Halfmoon Bay; also alternate plans and specifications for a four-inch concrete base with an asphaltic oil surface for that portion between Pilarcitos Creek and Halfmoon Bay. The above plans and specifications were adopted, and the clerk was instructed to advertise for bids for both improvements up to March 20th, 10 a. m. Plans may be had from the County Clerk at Redwood City.

REDWOOD CITY, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. The Board of Trustees at their meeting last Monday adopted plans and specifications and passed resolutions ordering the construction of concrete shoulders along the county road on either side of the State Highway between the Five Points and Rogers street. The specifications call for a 5½-inch concrete base and asphaltic wearing surface, and includes the necessary gutters and culverts. The average width of the shoulder is to be seven and one-half feet. Plans may be had from the City Clerk at Redwood City.

SAUSALITO, MARIN CO., CAL.—Street improvement, $18,000. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Engineer was directed to advertise for bids for street work in Central avenue, West and North streets, at the last meeting of the Town Trustees. Bids close March 20th, 8 p. m. Plans may be secured at the office of the Town Clerk at Sausalito.

MARTINEZ, CONTRA COSTA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Bids will be received on March 27th at 11 a. m. for furnishing materials and labor and constructing a road with a concrete base on Division No. 2 of the Tunnel road, Contra Costa County, Cal, a distance of 7 miles and 500 feet, more or less.

ANTIOCH, CONTRA COSTA CO., CAL.—Street paving. Cost not stated. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. At the last meeting of the Town Trustees a resolution adopting plans and specifications No. 27-A, being for the work of paving the block leading west from the Santa Fe water tank to the west end of the depot, was passed as was also the resolution ordering the work. Bids on this work will be called for shortly.

MARTINEZ, CONTRA COSTA CO., CAL.—Concreteing road. Cost not stated. Engineer, County Surveyor R. R. Arnold, Martinez. Owners, Contra Costa County. Plans have been completed by County Surveyor R. R. Arnold for the concreteing of the Tunnel road from Bryant Station to Walnut Creek, a distance of about seven miles. The Supervisors will call for bids on this work at their meeting.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Street roller. Cost not stated. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. At the last meeting of the City Council the bids submitted by the Austin Western Roads Machinery Co., 20 Fremont street, San Francisco, and the A. L. Young Machinery Co., 28 Fremont street, San Francisco, were taken under advisement.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $13,364.50. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications were adopted for storm sewers to be installed on portions of Stockton, Edison, Hunter, Lincoln, Monroe, Commerce, Center, Sierra Nevada, Park, Rose, Jefferson, Ophir, East, Lindsay, Aurora, Fremont, Flora, Worth and Anderson streets. The plans call for progressive payments and sealed bids have been called. Plans may be had from the City Clerk at Stockton.

REDWOOD CITY, SAN MATEO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were passed ordering the work and calling for bids on the James avenue sewer extension, curbs and gutters on Main street and Broadway in the principal business section, sidewalks on portions or Arguello, Winslow and Brewster streets. April 3rd was fixed as the date for opening bids on these pieces of work. Plans may be had from the City Clerk at Redwood City.

MONTEREY, MONTEREY CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Monterey. Owners, City of Monterey. Bids will be received until March 21 at 7:30 p. m. for the following street improvements: Pearl street to be graded and macadamized from gutter line to gutter line. Macadamized sidewalk and concrete curb and gutters. Also for the improvement of Tyler street from Pearl street to Franklin street. The roadway to be graded and paved with asphaltic macadam from gutter line to gutter line. Concrete sidewalks and concrete curbs

FRESNO, FRESNO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. At the last meeting of the City Council resolutions of intention were passed for a 6-inch lateral sewer in the alley through blocks 6 and 7 of Belmont Addition, the city to pay half the cost, and for the macadamizing of Sarah street. Also for the opening of the north end of H street to Park avenue. Bids on this work will be called for shortly.

MADERA, MADERA CO., CAL.—Septic tank, $4,700. Engineer, W. H. Castner, care of City Clerk, Madera. Owners, City of Madera. At the last meeting of the City Trustees the plans and specifications for the septic tank proposed to be erected at the west end of Yosemite avenue were received from W. H. Castner and accepted. Bids for this work will be called for shortly.

OAKLAND, CAL.—Street work and sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. At the last meeting of the City Council a resolution adopting plans and specifications for the improvement of 34th avenue from East 12th street to East 8th street and recommending passage of resolution of intention. Directing the City Engineer to prepare plans and specifications and resolution of intention for constructing storm sewer to drain streets and property in the vicinity of the intersection of Church and Beck streets. Bids on this work will be called for shortly.

BERKELEY, ALAMEDA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received until March 24th at 10 a. m. for the construction of a 6-inch vitrified ironstone sewer, concrete catch basins, 8-inch corrugated iron pipe, etc.

Contracts Awarded.

SAN FRANCISCO—Street and sewer work. Cost not stated. Engineer, City Engineer, San Francisco. The following street and sewer contracts have recently been awarded by the San Francisco Board of Public Works Improvement of Athens street from Russia avenue to Amazon avenue, etc., by grading, concrete curbs, artificial stone sidewalks, brick catchbasins, 8-inch vitrified salt-glazed iron stone pipe sewer, etc., awarded to D. O. Church Co., 68 Post street, S. F.

The improvement of Ocean avenue from Mission street to Cayuga avenue, etc., by grading, 8-inch salt-glazed sewer, brick manholes, Y branches, etc., awarded to D. L. Bienfield, Phelan Bldg., S. F.

The improvement of Diamond street between Bosworth street and the Southern Pacific Railroad Company's right-of-way, by the construction of granite curbs; by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof, awarded to D. O. Church Co., 68 Post street.

The improvement of the easterly side of York street between 24th and 25th streets by the construction of artificial stone sidewalks of the full official width where artificial stone or asphaltic sidewalks are not already constructed at least six feet wide. Awarded to A. O. Field, 1465 20th avenue.

ANTIOCH, CONTRA COSTA CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, Antioch. Owners, City of Antioch. At the last meeting of the Trustees, R. P. Easley, 720 Steiner street, San Francisco, was awarded the contract for constructing sewers in 2nd, 4th, 6th and 7th streets, his price being 40c per lineal foot for straight pipe and 50c for the Y connections. The Antioch Hardware and Furniture Co. was the only other bidder for the work.

SAN RAFAEL, MARIN CO., CAL.—Road construction, $5,500. Engineer, County Surveyor, San Rafael. Owners, Marin County. Contractor, S. P. Brownlee, Kentfield. Contract price, $5,500.

BAKERSFIELD, KERN CO., CAL.—Road construction. Cost as follows. Engineer, County Surveyor, Bakersfield. Owners, Kern County. The County Supervisors at the last session awarded highway contracts as follows:

Section 8, Bakersfield-Mojave road—

Benson & Sons, $29,881.85; Marin Rock Co., $43,670.25; Robert Sherer, $29,881.75. Contract was let to Robert Sherer, Pacific Electric Bldg., Los Angeles.

Section 6, Bakersfield-Glennville road—Castro & Blaisdell, $9,129.02; Mesmer & Rice, $11,025.60; Spring Construction Co., $11,958.62. Awarded to Castro & Blaisdell, Bakersfield.

Section 4, Bakersfield-Taft road—Castro & Blaisdell, $58,680.95; Lynn S. Atkinson, $56,877.41; Mesmer & Rice, $64,870. 26; Marin Rock Co., $58,192.91; McLean Construction Co., $57,267.37; Spring Construction Co., $61,798.33; Benson & Sons, $56,547.08. The contract was awarded to Geo. S. Benson & Sons, Stimson Bldg., Los Angeles.

VENTURA, VENTURA CO., CAL.—Cement. Cost as follows. Engineer, County Surveyor, Ventura. Owners, Ventura County. The bid of the California Portland Cement Co. for cement for county roads was accepted by the Supervisors last week. The rate being $1.73 per barrel less a return credit of 40c per barrel for sacks.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Bids will be opened on March 20th for sewer construction in Palm street, as shown on plans, with 624.25 lineal feet of vitrified, salt-glazed, ironstone sewer pipe having an internal diameter of 6 inches; also 25 Y branches, each having a 4-inch opening and 3 brick manholes with cast iron rings, covers and dust pans, be constructed on said sewer at points shown on plans. Said Y branches shall be constructed of first quality vitrified, salt-glazed ironstone sewer pipe.

SALINAS, MONTEREY CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor H. F. Cozzens, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors three sets of plans and specifications of County Surveyor H. F. Cozzens were accepted by the Board and bids for them will be opened on Tuesday, April 4th. They are the ten-mile grading on the new San Lucas-Coalinga mountain road, the oil macadamizing of the six miles of Monterey-Carmel road to Hatton's corner, and the sixteen miles of four-foot wide coast trail from Posts to Slate's Hot Springs. Plans may be had from the County Clerk at Salinas.

MONTEREY, MONTEREY CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Monterey Owners, City of Monterey. At the City Council's last meeting resolutions ordering work on Tyler and Pearl streets and also calling for bids were adopted. Plans may be had from the City Clerk at Monterey.

MONTEREY, MONTEREY CO., CAL.—Street improvement, $2,882.75. Engineer, City Engineer, Monterey. Owners, City of Monterey. Contractor, Ernest H. Sundberg, Oakland Bank of Savings, Oakland. Contract price, $2,882.75.

FRESNO, FRESNO CO., CAL.—Electroliers, $1,278. Engineer, City Engineer, Fresno. Owners, City of Fresno. Contractors, Central States Electrical Co., Fresno. Contract price, $1,278.

SEATTLE, WASH.—Road construction, $32,582. Engineer, County Surveyor, Stevenson. Owners, Skamania County. Contractors, General Construction Co., Spokane. Contract price, $32,582.

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STORES AND OFFICES.

SAN FRANCISCO—Stores, 1 story and base, frame, $7,500. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister street. Will contain two stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Market, 1 and 2 story and base. Class C construction. Cost not stated. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owner, A. Paladini. Location, southeast Merchant and Montgomery streets. Will contain wholesale fish market, office and shipping rooms. Interior finish pine. Tile wainscot and cement floor. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans being prepared.

SAN FRANCISCO—Offices, 10 story and base. Class A construction. Cost not stated. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Southern Pacific Co. Word has been received from Seattle stating that Purdy & Henderson of Seattle have been commissioned to prepare the steel drawings for the new office building. About 3,000 tons of steel will be used.

SAN FRANCISCO—Stores, 1 story and base, brick and concrete, $3,000. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner, I. J. O'Neill. Location, south Minna east of 4th, covering an area of 25 by 70 feet. Interior finish pine. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

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LEAVE KEY ROUTE FERRY.

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7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. F.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

BERKELEY, ALAMEDA CO., CAL.—Office, 2 story and base, frame, $3,200. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, Hall Scott Motor Car Co. Location, 739 Snyder avenue. Will contain shop and three office rooms. Interior finish pine. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BURLINGAME, SAN MATEO CO., CAL.—Stores and offices, 2 story and base, reinforced concrete, $15,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, Judge Lamb and F. D. Lawton. Location, corner of Burlingame and Park, covering an area of 50 by 100 feet. Will contain stores, offices and some living apartments. Interior finish pine. Patent store fronts and marble bases. Steam heat and hot water system. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

BURLINGAME, SAN MATEO CO., CAL.—Stores and offices, 2 story and base, reinforced concrete, $10,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Attorney Kirkbride. Location Burlingame avenue. Will contain two stores and offices. Interior finish pine and gum. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

VALLEJO, COLANO CO., CAL.—Creamery, 1 and 2 story and base, brick, $18,000. Architect, O. R. Thayer 20 Montgomery street, S. F. Owner, A. Dorse Reese. Will cover an area of 40 by 135 feet. Interior finish tile and marble. Special machinery. Tile floor. Patent stone fronts and marble bases. Exterior faced with white glazed brick. Plans being prepared and figures to be called for shortly.

THEATRES

SAN FRANCISCO—Theatre. Class A construction, $200,000. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, local syndicate. A new record of San Francisco real estate values was established last week when the John D. Spreckels property at the southeast corner of Market and Fourth streets was sold to a local syndicate for $1,250,000 or $'2,500 per front foot. The sale was handled through the offices of Abrahamson Bros. and the purchasers include the following well known men: Herbert Rothchild, Albert Dernham, Mark Gerstle and Leo Clayburg. It is announced that Architects Cunningham & Politeo have been commissioned to prepare plans for the new improvements which are to be made on the property. This announcement states that a Class A theatre building with a seating capacity of 4,000 will be erected on the property at a cost of $200,000. The architects refuse to discuss the subject, but promise further information shortly. There seems little doubt but that a larger and more important structure will be erected, probably a large office building with a theatre on the ground floor.

MARTINEZ, CONTRA COSTA CO., CAL.—Theatre and stores, 2 story and base, brick and steel. Cost not stated. Architect, Al Mazurette, Martinez. Owners, J. E. Rogers and Mr. Jones. Location, Mill and Escobar, covering an area of 60 by 125 feet. Theatre will seat 1,000 people. Upper floor arranged for offices. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1020 — Proposals for Steel Angles, Rivets, Bolts, Nuts, Washers, Malleable Iron and Steel Castings, Manganese Steel Pins, Steel Conduit, Steel Cable, Electric Cable and Wire, Shop Machines, Electric Motors, Transformers, Switches, Potheads, Potential Regulator, Electrical Attachments, Voltmeters, Ammeters, Tachometers, Hydrometers, Terminal Boards, Slate Slabs, Asbestos Wood Doors, Ebony Asbestos Wood Lumber, Oil Pumps, Cutting Tools, Pressure Regulators, Paint Mill, Spring Hinges, Granulated Cork, Motorcycle Tires, Tarpaulins, Window Glass, Pencils, Duplicating Ink and Stamp Pads.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 20, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1020) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR WOOD PIPE.

WOOD PIPE—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Fort Shaw, Mont., until **2 o'clock p. m. March 20, 1916**, for the construction of approximately 575 linear feet of 96-inch diameter continuous wood stave pipe for the Sun River project, Montana. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Shaw, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—Department of the Interior, U. S Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, St. Ignatius, Mont., until **2 o'clock p. m. March 29, 1916**, for the construction of canals and structures on the Flathead project, Montana, involving about 3,500 cubic yards of excavation, 250 cubic yards of reinforced concrete, 900 square yards of paving, laying 1,300 linear feet of vitrified pipe, erecting 16,000 feet, b. m., of lumber and placing 31,500 pounds of structural and reinforcing steel. The work is located from two to eight miles southeast of Arlee, Mont., on the Northern Pacific Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or St. Ignatius, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR FUEL.

FUEL — Sealed proposals will be opened by the light house inspector, Ketchikan, Alaska, at **2 o'clock p. m. May 19, 1916**, for furnishing approximately 1,700 tons coal, 5,000 barrels fuel oil and recharging 800 acetylene gas tanks during the fiscal year ending June 30, 1917. Information upon application to above office.

PROPOSALS.

OFFICE OF THE BOARD OF PUBLIC Works of the City and County of San Francisco.

Sealed proposals will be received at this office between the hours of **2 o'clock p. m. and 3 o'clock p. m. on Wednesday, the 29th day of March, 1916**, for furnishing and delivering finish hardware for the Juvenile Court and Detention Home.

Progressive payments will be made.

Said hardware must be in accordance with the plans and specifications on file in the office of the Board of Public Works, to which reference is hereby made and delivery must be commenced within five (5) calendar days from the receipt of written notice from the Board of Public Works and completed within one hundred and twenty (120) calendar days thereafter.

The amount of bond for faithful performance of contract has been fixed at $500.00.

All proposals offered must be accompanied by a check certified by a responsible bank, payable to the order of the Clerk of the Supervisors, for an amount not less than ten per cent of the aggregate of the proposal.

Printed proposal forms will be furnished gratuitously upon application at the office of the Architect, and all proposals must be made upon such forms.

The Board of Public Works reserves the right to reject any and all bids.

By order of the Board of Public Works. F. J. CHURCHILL, Secretary.

PROPOSALS.

OFFICE OF THE BOARD OF PUBLIC Works of the City and County of San Francisco.

Sealed proposals will be received at this office between the hours of **2 o'clock p. m. and 3 o'clock p. m. on Wednesday, the 22nd day of March, 1916**, for doing the following work:

The Brick and Terra Cotta work of the Northeasterly Wing of the San Francisco Hospital.

Progressive payments will be made.

Said work must be done in accordance with the specifications on file in the office of the Board of Public Works, to which reference is hereby made, and must be commenced within five (5) calendar days from the receipt of written notice from the Board of Public Works and completed within one hundred and eighty (180) calendar days thereafter.

The amount of bond for faithful performance of contract has been fixed at $11,000.00.

All proposals offered must be accompanied by a check certified by a responsible bank, payable to the order of the Clerk of the Supervisors, for an amount not less than ten per cent of the aggregate of the proposal.

Printed proposal forms will be furnished gratuitously upon application at the office of the Architect, and all proposals must be made upon such forms.

The Board of Public Works reserves the right to reject any and all bids.

By order of the Board of Public Works. F. J. CHURCHILL, Secretary.

PROPOSALS.

OFFICE OF THE BOARD OF PUBLIC Works of the City and County of San Francisco.

Sealed proposals will be received at this office between the hours of **2 o'clock p. m. and 3 o'clock p. m. on Wednesday, the 22nd day of March, 1916**, for doing the following work:

The General Construction of the Northeasterly Wing of the San Francisco Hospital.

Progressive payments will be made.

Said work must be done in accordance with the specifications on file in the office of the Board of Public Works, to which reference is hereby made, and must be commenced within five (5) calendar days from the receipt of written notice from the Board of Public Works and completed within three hundred (300) calendar days thereafter.

The amount of bond for faithful performance of contract has been fixed at $35,000.00.

All proposals offered must be accompanied by a check certified by a responsible bank, payable to the order of the Clerk of the Supervisors, for an amount not less than ten per cent of the aggregate of the proposal.

Printed proposal forms will be furnished gratuitously upon application at the office of the Architect, and all proposals must be made upon such forms.

The Board of Public Works reserves the right to reject any and all bids.

By order of the Board of Public Works. F. J. CHURCHILL, Secretary.

PROPOSALS.

OFFICE OF THE BOARD OF PUBLIC Works of the City and County of San Francisco.

Sealed proposals will be received at this office between the hours of **2 o'clock p. m. and 3 o'clock p. m. on Wednesday, the 22nd day of March, 1916,** for doing the following work:

The installation of a heating and ventilating system in the Northeasterly Wing of the San Francisco Hospital.

Progressive payments will be made.

Said work must be done in accordance with the specifications on file in the office of the Board of Public Works, to which reference is hereby made, and must be commenced within five (5) calendar days from the receipt of written notice from the Board of Public Works and completed within three hundred (300) calendar days thereafter.

The amount of bond for faithful performance of contract has been fixed at $2,000.00.

All proposals offered must be accompanied by a check certified by a responsible bank, payable to the order of the Clerk of the Supervisors, for an amount not less than ten per cent of the aggregate of the proposal.

Printed proposal forms will be furnished gratuitously upon application at the office of the Architect, and all proposals must be made upon such forms.

The Board of Public Works reserves the right to reject any and all bids.

By order of the Board of Public Works. F. J. CHURCHILL, Secretary.

STATE OF CALIFORNIA. DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on April 3, 1916,** at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

Placer County, one mile north of Roseville city limits (III-Pla-3-A), about 630 feet in length (including two abutments for an under crossing of the railroad), to be paved with Portland cement concrete.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the office of the Division Engineer of the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: March 7, 1916.

PROPOSALS FOR R. R. SUPPLIES.

PANAMA RAILROAD SUBSISTENCE —Office of the Panama Railroad Company, 24 State Street, New York City, February 15, 1916.—Sealed proposals are invited for furnishing commissary foodstuffs, etc., to the Panama Railroad Company in accordance with terms and conditions contained in circular No. P-363. Circulars and full information may be obtained at the following named places, at which points bids will be received and opened in public on date and at time stated: The purchasing department, Panama Railroad Company, 24 State street, New York City, office of purchasing commissary, U. S. Army, Whitney-Central Building, New Orleans, La.; depot quartermaster, U. S. Army, Fort Mason, San Francisco, Cal., and depot quartermaster, U. S. Army, 115-123 E. Ontario street, Chicago, Ill. Bids will be received at New York until **2 p. m.** at Chicago and New Orleans until **1 p. m.** and at San Francisco until **11 a. m. March 6, 1916.** R. E. RUTHERFORD, commissary purchasing agent, Panama Railroad Company, 24 State street, New York City.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1019 — Proposals for Electric Cable, Electric Switches, Transformers, Malleable Iron Castings, Steel Castings, Brake Beams, Car Journal Bearings, Well Tubing, Pipe Fittings, Block Tin, Plush Plug Cocks, Valves, Range Boilers, Sanitary Fixtures, Window Glass, Soap-Making Equipment, Aluminum Cooking Utensils, Pencils, Cardboard, Paper and Manila Tags.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 17, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1019) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR BUILDING.

BUILDING, ETC. — Proposals for Heating Plant, Laundry, Etc., Brick Quarters and Sewer Extension—Department of the Interior, Office of Indian Affairs, Washington, D. C., February 18, 1916.—Sealed proposals plainly marked on the outside of the envelope "Proposals for Construction Work, Fort Belknap School, Montana," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until **2 o'clock of March 22, 1916,** for furnishing materials and labor for the construction work above noted, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the United States Indian warehouses at Chicago, Ill., and St. Louis, Mo.; the Builders' Exchange, St. Paul, Minn., and at the office of the superintendent of the Fort Belknap School, Harlem, Mont. For further information apply to the superintendent of the Fort Belknap School. CATO SELLS, Commissioner.

PROPOSALS FOR AIR COMPRESSORS.

NOTICE TO CONTRACTORS.

NOTICE is hereby given that sealed bids will be received by the Board of Trustees of the Red Bluff Union High School District, Tehama County, California, at the office of the Clerk of said Board of Trustees, at the Elmore Pharmacy, in Red Bluff California, until **1 o'clock p. m. March 28th 1916,** for the erection and completion of a high school building to be built at Red Bluff, California, according to plans and specifications prepared for the same by W. H. Weeks, the authorized architect, of 75 Post street, San Francisco, California.

Bids will be received separately for furnishing and installing the heating and ventilating, vacuum cleaning, electric work, roofing, cork carpet, window shades and program clock systems; and bids will also be received for the general contract with alternate propositions as specially set forth in General Specifications.

Plans and specifications can be seen durin office hours at the office of the Clerk of said Board of Trustees at Red Bluff or at the office of the Architect, W. H. Weeks, 75 Post street, San Francisco, California.

A cash deposit of Twenty Dollars will be required from all prospective bidders on all copies of plans and specifications loaned out, as a guarantee of good faith and of the return of the same.

All bids should be presented on blank forms furnished by the Board of Trustees which may be procured at the office of the Clerk of the Board, or at the office of the Architect, W. H. Weeks.

Each bid must be accompanied by a certified check on some responsible California Bank in a sum not less than five (5) per cent of the amount bid, made payable to F. R. Eldredge Clerk of said Board of Trustees, as a guaranty of good faith that the party to whom the contract may be awarded will within ten days, enter into the necessary agreement and bonds for the faithful performance of said work, and in case the successful bidder, to whom the contract is awarded fails or refuses to enter into said agreement and bonds, said check will be forfeited to the said High School District in the manner provided by law.

Each bid must be enclosed in a sealed envelope and addressed to F. R. Eldredge, Clerk of the Board of Trustees, at Red Bluff, California, and endorsed "Proposals for Building High School Building," or for furnishing and installing the different systems mentioned above.

The Board of Trustees expressly reserves the right to reject any and all bids.

BOARD OF TRUSTEES OF RED BLUFF UNION HIGH SCHOOL DISTRICT.
By R. L. DOUGLAS, President.
By F. R. Eldredge, Clerk.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednesday, March 29, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor and doing the work required for the complete construction and erection of the "Bank Screen and Railing," State Treasurer's Office, State Capitol Building, Sacramento, California,** in accordance with the plans and specifications therefore, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Ten ($10.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked, on the envelope: "Proposal for 'Bank Screen and Railing,' State Treasurer's Office, State Capitol Building, Sacramento, California."

(SIGNED) W. F. McCLURE, State Engineer. (*)

WYBRO PANELS.

White Bros. have installed a very comprehensive exhibit at the Building Material Exhibit at 77 O'Farrell Street.

This booth is devoted principally to WYBRO Panels, although they have samples of all their hardwoods on exhibition there.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

APARTMENT HOUSE—3 story and base, frame, $17,000. San Francisco. Architects, Rousseau & Roussetu, 110 Sutter street, S. F. Owners, J. Lauray and J. Couragnet. Location, Leavenworth, 20 feet north of Broadway. Will contain 15 apartments of two and three rooms. Interior finish pine and white enamel. Some hardwood floors. Private baths and steam heat, oil burning system. Hot water system. Bath rooms composition floors. Wall beds. Marble and tile wainscot. Exteriowr covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southwest San Jose and 24th street. Will contain twelve suites of two and three rooms. Interiors finished in pine and redwood. Steam heat and hot water system. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and bids being taken.

APARTMENT HOUSE—4 story and base. Class C, brick, $65,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, north Geary between Leavenworth and Hyde streets, covering an area of 55 by 137½ feet. Will contain 80 rooms arranged in two and three room suites. Interior finish pine and hardwood with some hardwood floors. Steam heat, oil burning system, vacuum cleaning and hot water supply. Automatic elevator. Bath rooms finished in tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $12,000. San Francisco. Architect, Frank S. Holland, 100 Haight street, S. F. Owner's name withheld. Location, Octavia and Rose streets. Will contain a total of 12 apartments of three rooms and bath. Interior finish pine and hardwood with some hardwood floors. Gas steam radiators and hot water system. Wall beds. Composition floors in baths. Marble and tile wainscot. Brick veneer. Exterior cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, brick and frame. Cost not stated. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location southwest corner of 20th and Dolores streets. Will contain seven suites of three and four rooms with baths and sleeping porches. Interiors finished in pine, hardwood and white enamel. Open fire places and tile or brick mantels. Wall beds and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior covered with brick veneer. Plans complete and figures being taken.

APARTMENT HOUSE AND STORES—3 story and base, frame, $15,000. San Francisco. Architect, Earl B. Scott, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, corner of 16th and Capp streets, covering an area of 35 by 90 feet. Will contain two stores on the ground floor and eight modern three room apartments on the upper floor. Interiors finished in pine. Gas steam radiators. Bath rooms composition floors. Hot water supply. Wall beds. Patent store fronts and Marble bases and wainscot. Exterior covered with rustic. Plans complete and figures to be called for at once.

APARTMENT HOUSE—6 story and base brick and steel, $110,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Goewey Investment Co. Location, southwest corner of Geary and Leavenworth streets, covering an area of 68 feet 9 inches by 77½ feet. Will contain a total of 110 rooms arranged in suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, automatic electric elevators, hot water supply and vacuum cleaning. Bath rooms tile. Marble and tile wainscot. Wall beds. Exterior faced with pressed brick and terra cotta. Preliminary plans being prepared.

APARTMENT HOUSE AND STORES—2 story and base, frame, $9,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, north Geary east of 19th avenue, covering an area of 50 by 56 feet. Will contain two stores on the first floor and four small apartments on the upper floor. Interior finshed in pine with some elm panels and hardwood floors. Open fire places and tile mantels. Patent store fronts. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE AND STORES—4 story and base, brick and steel, $70,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, northwest corner of Sutter and Jones streets, covering an area of 55 by 68½ feet. Will contain six stores and a large number of two and three room apartments. Interior finished in pine, hardwood and wbite enamel. Hardwood floors, steam heat, oil burning system, hot water supply, automatic elevator and vacuum cleaning. Bath rooms tile and composition. Wall beds. M. B. patent store fronts and marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

RESIDENCES—6, 2 story and base, frame, $2,000 each. San Francisco. Architect, none. Owner, Thomas Hamill, 5535 Geary street, S. F. Location, west 24th avenue north of Balboa. Each house will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster Plans complete and work to be done by Day Labor

RESIDENCES—3, 2 story and base, frame, $2,000 each. San Francisco. Architect, none. Owners, Leigh & Schulz, 119 21st avenue, S. F. Location, east 18th avenue north of Judah. Each house will contain five rooms and bath. Interiors finished in pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 2 story and base, frame, $7,500 to $12,000. San Francisco. Architect, E. P. Antonovich, Monadnock Bldg., S. F Owner's name withheld. Location, Claremont Court. Architect Antonovich has just been appointed as supervising architect for the Claremont Tract, a large and restricted subdivision. Four new dwellings are to be erected at once. Details will be given as soon as working drawings are under way.

APARTMENT HOUSE—2 story and base, frame, $30,000 San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, northeast corner of Commonwealth and Geary streets, covering an area of 108 by 82 feet. Will contain ten large apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Dumb waiters. Wall beds. Bath rooms finished in tile Marble and tile wainscot. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—6 story and base, reinforced concrete, $65,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Van Ness avenue. Will contain a total of 35 apartments of two rooms each with bath. Interior finish pine, hardwood and southern gum. Hardwood floors. Bath rooms tile floors and wainscot. Steam heat, automatic elevator, dumb waiters, hot water supply and vacuum cleaning. Large social hall and reception room. Ornamental plaster. Marble and tile wainscot. Exterior faced with cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base. Class C, brick, $30,000. San Francisco Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Van Ness avenue. Will contain a total of 15 suites of two and three rooms, besides social hall and reception rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors and tile wainscot. Dumb waiters. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Owen Hughes, 2728 24th street, S. F. Location, west Cole north of Rivoli. Will contain two flats of four and five rooms. Interior finish pine and redwood with some white enamel.

Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2, 2 story and base, frame, $3,500 each. San Francisco. Architect, none. Owner, C. A. Rushton, 751 9th avenue, S. F. Location, west 9th avenue south of Cabrillo, covering areas of 25 by 58 feet. Each building will contain two flats of four and five rooms with bath. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, J. C. Kirby, 2152A Market street, S. F. Location, east 7th avenue north of Geary, covering an area of 25 by 52 feet. Will contain two flats of five and six rooms with baths. Basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, south Clara west of 5th avenue. Will contain two flats of four and five rooms with bath. Basement garage. Interior finish pine, redwood and white enamel. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—5, 2 story and base, frame, $3,000 each. San Francisco Architect, D. C. Coleman, Merchants' National Bank Bldg, S. F. Owners, Caldwell & Sons, 110 Jessie street, S. F. Location east 43rd avenue north of Fulton. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, southern gum and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,600. San Francisco. Architect, none. Owner, Emil Nelson, 244 Rivoli street, S. F. Location, southwest Balboa and 15th avenue. Will contain six rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ICE RINK—1 story and base. Class A construction, $10,000. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Techau Tavern Ice Palace Co. Location, north Eddy east of Jones, covering an area of 37½ by 137½ feet. Complete steel frame and reinforced concrete walls. Special machinery contract awarded to Faget Engineering Co., 354 Pine street at $25,000.

POWER PLANT—1 story and base, reinforced concrete and steel, $100,000. San Francisco. Engineer, Engineering Dept. Great Western Power Co. Location, Bush street west of Grant avenue. Will be 60 feet high, complete steel frame, reinforced concrete walls and floors. Metal window sash and frames. Metal covered doors. Special machinery and equipment not included in contract. Exterior faced with cement plaster. Plans complete and figures being taken.

HOSPITAL ADDITION—4 story and base. Class A construction, $380,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids will be received by the Board of Public Works on March 22nd for the general construction, brick and terra cotta work, heating and ventilating for the northeast wing of the San Francisco Hospital. Plans can be secured from the architect. Official proposals appear in this issue.

HEALTH DEPARTMENT AND HOSPITAL—4 story and base. Class A construction, $200,000. San Francisco. Architect, John Reid Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, Polk and Ivy streets, Civic Center. The building will conform to the architecture of the City Hall. The first and second floors will be used for a Central Emergency Hospital and will be erected at once. The two additional stories will be added later. Exterior will be faced with pressed brick and granite. Plans are being prepared.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owners, Finance and Realty Development Co., Phelan Bldg., S. F. Location, east 44th avenue south of Geary. Will contain five rooms and bath. Interior finish pine and redwood with some hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $10,500. San Francisco. Architect, none. Owner, W. W. Rednall, 2500 Filbert street, S. F. Location, northeast Lyon and Green streets, covering an area of 29 by 69 feet. Will contain ten rooms, three baths and sleeping porch. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with brick veneer and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Gough and Sacramento streets. Will contain six residential apartments of five rooms each. Interior finish pine and hardwood with some southern gum and white enamel. Hardwood floors. Steam heat, oil burning system and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Dumb waiters. Exterior covered with cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister street. Will contain 15 apartments of two and three rooms with baths and wall beds. Interior finish pine and redwood. Hardwood floors. Steam heat and hot water system. Composition floors in bath rooms. Exterior covered with cement plaster and rustic. Plans complete and figures to be called for at once.

APARTMENT HOUSE—3 story and base, frame, $12,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, southeast corner of Lake and 6th avenue, covering an area of 32 by 82 feet. Will contain six modern apartments of three and four rooms. Interior finish pine and elm panels with some white enamel and hardwood floors. Basement garage. Steam heat and hot water system. Wall beds. Bath rooms tile and composition floors. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE AND STORES—3 story and base, frame, $15,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, Howard street near 14th. Will contain one store and a total of eight apartments of two and three rooms. Interior finish pine and elm panels with some hardwood floors. Wall beds and steam heat. Hot water system. Composition floors in bath rooms. Patent store fronts. Exterior covered with rustic and cement plaster. Plans being prepared.

HOSPITAL ADDITION—5 story and base. Class A construction, $500,000. San Francisco. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Leland Stanford, Jr., University. George Wagner presented the low figures for the general construction and will probably be awarded the contract. A large number of bids were received for the various parts of the work. A complete list of the figures as opened appears under the heading of San Francisco in this issue.

STORES—1 story and base, frame, $7,500. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister street. Will contain two stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

MARKET—1 and 2 story and base. Class C construction. Cost not stated. San Francisco. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owner, A. Paladini. Location, southeast Merchant and Montgomery streets. Will contain wholesale fish market, office, and shipping rooms. Interior finish pine. Tile wainscot and cement floor. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans being prepared.

OFFICES—10 story and base. Class A construction. Cost not stated. San Francisco. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Southern Pacific Co. Word has been received from Seattle that Purdy & Henderson of Seattle have been commissioned to prepare the steel drawings for the

new office building. About 3,000 tons of steel will be used.

STORES—1 story and base, brick and concrete, $3,000 San Francisco. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner, I. J. O'Neill. Location, south Minna east of 4th, covering an area of 25 by 70 feet. Interior finish pine. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

THEATRE—Class A construction, $200,000. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, local syndicate. A new record of San Francisco real estate values was established last week when the John D. Spreckels property at the southeast corner of Market and Fourth streets was sold to a local syndicate for $1,250,000 or $12,500 per front foot. The sale was handled through the offices of Abrahamson Bros. and the purchasers include the following well known men: Herbert Rothchild, Albert Dernham, Mark Girstle and Leo Clayburg. It is announced that Architects Cunningham & Politeo have been commissioned to prepare plans for the new improvements, which are to be made on the property. This announcement states that a Class A theatre building with a seating capacity of 4,000 will be erected on the property at a cost of $200,000. The architects refuse to discuss the subject, but promise further information shortly. There seems little doubt but that a larger and more important structure will be erected, probably a large office building with a theatre on the ground floor.

Contracts Awarded.

STREET AND SEWER WORK—Cost not stated. San Francisco. Engineer, City Engineer, San Francisco. The following street and sewer contracts have been awarded by the San Francisco Board of Public Works: Improvement of Athens street from Russia avenue to Amazon avenue, etc., by grading, concrete curbs, artificial stone sidewalks, brick catchbasins, 8-inch, vitrified, salt-glazed iron stone pipe sewer, etc. Awarded to D. O. Church Co., 68 Post street, S. F. The improvement of Ocean avenue, etc., by grading, 8-inch salt-glazed sewer, brick manholes, Y branches, etc. Awarded to D. L. Bienfield, Phelan Bldg. The improvement of Diamond street between Bosworth street and the Southern Pacific Railroad Company's right-of-way, by the construction of granite curbs; by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof. Awarded to D. O. Church Co., 68 Post street. The improvement of the easterly side of York street between 24th and 25th streets by the construction of artificial stone sidewalks of the full official width where artificial stone or asphaltic sidewalks are not already constructed at least 6 feet wide. Awarded to A. O. Field, 1465 20th avenue.

HOSPITAL VACUUM CLEANING — $1,241. San Francisco. Architect, City Department of Architecture, City Hall. Owners, City and County of San Francisco. Contractors, E. L. B. Zimmer Vacuum Cleaning Co. Contract price, $1,241.

Stanford Trustees Receive Bids For Lane Hospital Addition.

George Wagner, Low Man For General Construction, Will Probably Be Awarded Contract. Plumbing, Heating and Ventilating Work and Electric Work Attracts Many Bidders.

Bids were opened Friday at 12 o'clock, noon, by the Trustees of Leland Stanford Jr. University for the construction of an addition to the Lane Hospital in this city. The addition is of the Class "A" type and was designed by Architects Bakewell & Brown. George Wagner presented the low figure for the general construction. A complete list of bids opened follows:

General Construction.

Bidder	Prop. 1	Prop. 2	Prop. 3
George Wagner	$485,000	$453,500	$457,000
S. B. Peterson	575,000	.....	.....
C. L. Wold Co.	496,000	465,988	478,146
Anderson & Ringrose	520,970	290,850	201,930
Fred Whitton	508,450	456,250	481,890
Grant Fee	505,000	472,047	482,165
McLaren & Peterson	510,529	479,680	488,146
Larsen & Sampson	523,000	462,000	502,500
Clinton Construction Co.	491,000	462,000	465,000
Mahoney Bros.	546,000	498,500	527,000
Sound Constr. & Eng. Co.	560,745	514,321	539,853
MacDonald & Kahn	512,000	469,000	484,500

Structural Steel.

Bidder	Furnishing	Erecting	Both
Vulcan Iron Works	$61,948	.....	.....
Western Iron Works	.....	.....	74,172
Dyer Bros.	.....	.....	71,950
United States Steel Products Co.	62,870	.....	.....
Pacific Rolling Mills Co.	61,721	8,780	70,501

Elevators and Dumb Waiters

Bidder	Prop. 1	Prop. 2	Prop. 3
Otis Elevator Co.	$19,465	$ 9,890	$15,400
Van Emon Elevator Co.	20,938	10,804	16,500
Pacific Gurney Elevator Co.	21,000	10,000	17,000
M. E. Hammond (dumb waiters only)	2,500	.....	.....

Plumbing.

Bidder	Prop. 1	Prop. 2
Burnham Plumbing Co.	$91,420	$91,410
Frederick W Snook	$5,200	$6,105
F. W. Wilson Co.	$7,420	.....
Herman Lawson	$6,874	$7,715
Scott Co.	$5,345	$6,300
Robert Dalziel Jr.	$7,560	$8,311
Frank J. Klimm	$5,640	$6,881
Turner Co.	$6,985	$7,786
James H. Pinkerton	$2,410	$3,260
Wittman-Lyman Co.	$6,410	$7,444
J. E. O'Mara	$9,964	90,795
Kiernan & O'Brien	79,675	$0,426
Alex Coleman	$6,115	$6,981

Refrigerating and Piping

Vulcan Iron Works	$3,825
Nathan-Dohrmann Co (own specifications)	3,332

Heating and Ventilating.

J. E. O'Mara	$28,977
Scott Co.	28,480
Herman Lawson	29,831
Robert Dalziel Jr.	30,893
Mangrum & Otter	28,000
F. P. Walsh	28,500
Turner Co.	31,790
Wittman-Lyman Co.	30,660
Kiernan & O'Brien	27,119
Atlas Heating & Ventilating Co.	30,330

Electric Work.

Pacific Fire Extinguisher Co.	$40,770
H. S. Tittle	44,900
McFell Electric Co.	46,875
Turner Co.	46,200
Butte Eng. & Elec. Co.	45,100
Ne Page-McKinney Co.	42,900

OAKLAND AND ALAMEDA COUNTY

SCHOOL ADDITION—Frame. Cost not stated. Oakland. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, City of Oakland. Bids will be received on March 16th at 8 p. m. for constructing two frame additions to the Lakeview School. Plans and specifications can be secured from the architect.

APARTMENT HOUSE— 2 story and base, frame, $8,000. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owners, Dempster Estate Co., Merchants' Exchange Bldg., S. F. Location, east Regent north of Stuart street. Will contain sixteen rooms arranged in two and three room apartments. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Hot water system. Bath rooms composition floors. Open fire places and tile mantels. Wall beds. Exterior covered with cement plaster. Plans complete and work to be done under the direction of Donald P. Wingate, 2330 Carlton street, Berkeley, who is now taking subfigures.

APARTMENT HOUSE—3 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owner, V. N. Strang, 1521 9th street, Alameda. Location, east Oak south of 10th street. Will contain eighteen rooms arranged in two and three room suites with private baths and wall beds. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Hot water system and open fire places. Mantels tile. Bath rooms composition floors. Marble and tile wainscot. Exterior covered

ith cement plaster and rustic. Plans omplete and work to be done by Day abor.

APARTMENT HOUSE—2 story, attic nd base, frame, $12,000. Berkeley, Alameda Co., Cal. Architect, R. L. Holt, 011 Shattuck avenue, Berkeley. Owner, Mrs. H. H. Watson. Location, Hillard and Euclid. Will contain a number of two, three and four room apartments. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Wall beds. Hot water system. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. A. Pleitner, 954 Fruitvale avenue, Oakland. Location, north Damuth east of Lincoln. Will contain five rooms and bath. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, J. S. Hanson, 1633 Josephine street, Berkeley. Location, north Parker east of Mabel. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none Owner, Charles D. Hart, 615 22nd street, Oakland. Location, northeast 38th avenue and Kanning. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, John Kundert, 117 Athol avenue, Oakland. Location, west 25th avenue north of East 22nd street. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $1,000 each. Oakland, Cal. Architect, none. Owner, J. F. Whalen, 1748 Broadway, Oakland. Location, north Santa Clara avenue west of Valle Vista. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel Hardwood floors and open fire places. Mantels tile and brick. Bath rooms composition. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Frank Cardoza, 1263 82nd avenue, Oakland. Location, west 95th avenue south of A street. Will contain five rooms and bath. Interior finish pine. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, William Oszdorff, 125 Guerrero street, S. F. Location, northeast corner Claremont and Oakvale avenues Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels, tile or brick. Bath room tile. Automatic water heater Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STREET WORK AND SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. At the last meeting of the City Council resolution adopting plans and specifications for the improvement of 34th avenue from East 12th street to East 8th street, and recommending passage of resolution of intention. Directing the City Engineer to prepare plans and specifications and resolution of intention for constructing storm sewer to drain streets and property in the vicinity of the intersection of Church and Beck streets. Bids on this work will be called for shortly.

SEWER CONSTRUCTION—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received until March 24th at 10 a. m. for the construction of a 6-inch vitrified, ironstone pipe sewer, concrete catch basins, 8-inch corrugated iron pipe, etc.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, W R. Lippincott, 3014 35th avenue, Oakland Location, east Patterson north of Hopkins. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Composition floor in bath. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, none. Owner, C H. MacGregor, 470 13th street, Oakland. Location, west 14th avenue north of East 38th street. Each dwelling will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, east Eton north of Claremont. Will contain nine rooms and bath. Interior finish pine and redwood. Open fire places. Mantels tile. Exterior covered with rustic and shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. Henry Wolbold, First National Bank Bldg., Berkeley. Location, south Sonoma west of Tulare. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame $1,800. Albany, Alameda Co., Cal. Architect, none. Owner, J. A Kellogg, 3404 Champion street, Oakland. Location, west Pomina south of Main. Will contain five rooms, bath and sleeping porch. Interior finish redwood throughout. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base frame, $2,000. Oakland, Cal. Architect, none. Owner, J. F. Chambers, 206 Plaza Bldg., Oakland. Location, east View street north of Mather. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,200. Oakland, Cal. Architect, none. Owner, F. F. Wood, 157 Lake avenue, Oakland. Location, north Pippin east of Pear. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, E. R. Williams, 1236 37th avenue, Oakland. Location, east Laguna avenue south of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

COURT HOUSE ADDITION—2 story and base, brick and steel, $100,000. Oakland, Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Location, 5th and Broadway. New addition to Hall of Records will be made on the north side of the present building. Extensive alterations to the old structure are included in the work. Plans are being prepared.

CLUB HOUSE—2 story and base, frame, $11,000. Oakland, Cal. Architect, A. W. Smith, 1010 Broadway, Oakland. Owners, Oakland Women's Club. Location, Bay Place and Montecito. Will contain social rooms, large meeting room, gymnasium and offices. Interior finish pine and hardwood with hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans being prepared.

HOSPITAL COTTAGES—1 and 2 story and base, frame, $50,000. Livermore, Alameda Co., Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Plans are being prepared for the first unit of the County Tuberculosis Hospital. Each

cottage will accommodate from 20 to 40 patients. Interior will be finished in pine and redwood. Central heating system and hot water supply. Exterior faced with shingles or cement plaster. Plans being prepared.

SCHOOLS—2, 2 story and base, brick and concrete. Cost not given. Alameda, Alameda Co., Cal. Architects, Cunningham & Politeo, First National Bank Bldg., S. F., and Henry H. Meyers Kohl Bldg., S. F. Owners, City of Alameda. A large list of bids was received for the construction at the Lincoln and Washington Schools. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

OFFICE—2 story and base, frame, $2,200. Berkeley, Alameda Co., Cal. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, Hall Scott Motor Car Co. Location, 739 Snyder avenue. Will contain shop and three office rooms. Interior finish pine. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Bids Recived For Alameda Schools.

Work on Both Washington and Lincoln Schools Attracts a Large Number of Bidders in all Branches.

A large number of bids were received at the Tuesday night meeting of the Alameda Board of Education for the construction of the two-story brick addition to the Washington School and for the new two-story brick school known as the Lincoln School. The former building was designed by Architect Henry H. Meyers, Kohl Bldg., San Francisco, and the latter by Architects Cunningham & Politeo, First National Bank Bldg., San Francisco.

Nine segregations of the work were made in each building. All bids were referred to the Building Committee. Following is a complete list of the bids as received:

Addition to Washington School.

Department 1. Excavating, grading, brick and concrete work.

Department 2. Structural and miscellaneous iron work.

Department 3. Carpenter work, mill work, glass, stairs, hardware, tiling and marble work.

Department 4. Plastering, lathing, cementing, etc.

Department 5. Felt and gravel roofing.

Department 6. Painting, tinting.

Department 7. Plumbing, drains, gas fitting and sheet metal work.

Department 8. Electric work.

Department 9. Heating and ventilating.

Bidder	Props.	Amt.
Anderson & Ringrose	1, 3 & 4	$35,974
Boyd Kerr & McLean	1 & 3	34,931
Carnahan & Mulford	1 to 8	46,872
Thos. Elam & Son	1, 3 & 7	20,500
Harvey A. Klyce	1 & 3	32,556
T. W. McClenahan	1 to 6	44,985
Lester H Stock	1, 3 & 4	48,606
W. G. Thornalley	1 to 8	50,000
Christen on Bro	1 to 8	50,000
W. D. Henderson	1, 2, 3 & 5	38,764
Morrow & Morrison	1 to 6	41,457

Department No. 1.

J. E. Gilson	$13,985
Charles B. Hadley	13,180
Christenson Bros.	13,338
White & Gloor	14,575
Powell Bros. Constr. Co.	13,400
Lester H. Stock	14,855

Department No. 2.

Ralston Iron Works	$ 3,615
Judson Mfg. Co.	4,410
Western Iron Works	3,589
Greater Iron Works	3,485

Department No. 3.

Lester H. Stock	$21,773
M. P. Mortenson	17,957
J. Wendering	19,180
Christenson Bros.	21,000
Alfred Olson	21,425
W. G. Thornalley	20,400

Department No. 4.

Lester H. Stock	$ 4,648
Geo. Dixon	4,000
Wm. Makin	3,497
Greenback Plastering Co.	2,847
A. Knowles	3,612
James F. Smith	3,725
T. D. Sexton	4,000

Department No. 5.

Larkin Asphalt Co.	600
Paraffine Paint Co.	460

Department No. 6.

Robert Swan	$ 1,930
Tozer Co.	1,515
D. Zelinsky & Sons	1,917

Department No. 7.

Carl T. Doell	$ 4,081
J. E. O'Mara	3,521
Scott Co.	3,800
Frederick W. Snook	3,540
Thomas R. Catton	3,399

Department No. 8.

Ne Page-McKinney Co.	$ 2,513
Rex Elec. Co.	2,898
Strom Elec. Co.	3,600

Department No. 9.

J. C. Hurley Co.	$ 6,246
William Morgan & Co.	7,480
W. K. Nottingham	7,100
Scott Co.	7,890

COMPLETION, LINCOLN SCHOOL.

Department 1. Excavating, concrete work, etc.

Department 2. Brick work, granite work, cast iron, steel work, etc.

Department 3. Carpenter work, mill work, glass, stairs, roofing, hardware, patent flue, galvanized iron work, etc.

Department 4. Plumbing, gas fitting, marble work, etc.

Department 5. Electric work.

Department 6. Lathing, plastering, ornamental work, etc.

Department 7. Heating and ventilating.

Department 8. Painting and kalsomining.

Department 9. Vacuum cleaner.

Bidder	Props.	Amt.
Harvey A. Klyce	1, 2 & 3	$51,587
Lester H. Stock	1, 2, 4 & 6	64,000
E. S. Mulford	1, 2, 3, 5, 6 & 8	53,787
Masow & Morrison	1, 2, 3, 6&8	58,940
W. D. Henderson	1, 2, 3 & 8	56,668

Department No. 1.

Anderson & Ringrose	$ 4,988
Harvey A. Klyce	7,232
Lester H. Stock	6,499
Christenson Bros.	5,500
Tieslau Bros.	5,868
Edwall & Alforno	5,937
Boyd-Kerr & McLean	4,650
Powell Bros. Constr. Co.	5,200

Department No. 2.

Anderson & Ringrose	$21,240
Harvey A. Klyce	21,752
Lester H. Stock	22,120
Peter N. Schmidt	19,985
White & Gloor	21,300
Western Iron Works (Iron and Steel Work only)	6,589
Charles B. Hadley	20,150
Mealey & Collins	21,250
Boyd-Kerr & McLean	16,500
Powell Bros. Constr. Co.	20,477

Department No. 3.

Anderson & Ringrose	$23,160
Harvey A. Klyce	24,160
Lester H. Stock	25,431
Peter N. Schmidt	25,915
Christenson Bros.	24,457
Boyd-Kerr & McLean	20,672
Powell Bros. Constr. Co.	26,358
Delanoy & Randlett	24,500
A. H. Wilhelm	26,353
J. Wendering	25,250
Louis Johnson	25,042
M. P. Mortenson	22,971
George Reichley	25,997
Stockholm & Allyn	24,936

Department No. 4.

Powell Bros. Constr. Co.	$ 4,314
Carl T. Doell	5,901
Scott Co.	5,200
J. E. O'Mara	5,383
Frederick W. Snook Co.	4,838

Department No. 5.

Peter N. Schmidt, $2,000 add for conduit $1000.

Powell Bros. Constr. Co., $1,644, add for conduit $1,004.

Rex Electric Co., $1,487, add for conduit, $409.

Ne Page-McKinney Co., $1,703, add for conduit, $294.

Strom Electric Co., $2,280.

Department No. 6.

Anderson & Ringrose	$ 6,300
Lester H. Stock	12,167
Powell Bros. Constr. Co.	7,441
Greenback Plastering Co.	6,297
James F. Smith	7,450
T. D. Sexton	8,807
Geo. Dixon	7,250
Wm. Makin	7,335

Department No. 7.

Powell Bros. Constr. Co.	$ 6,602
Scott Co.	6,520
W. K. Nottingham	6,400
J. C. Hurley Co.	5,210
W. Morgan Co.	5,290

Department No. 8.

Peter N. Schmidt	$ 3,525
Powell Bros. Constr. Co.	3,368
D. Zelinsky & Sons	2,989
Tozer Co.	1,492
Robert Swan	2,145

Department No. 9.

E. L. B. Zimmer	$995.20	$1,156.33
Hughson & Merton	390.00	290.00
J. E. O'Mara	560.00	.....

SAN JOSÉ AND THE SANTA CLARA VALLEY

STREET PAVING—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer Davies, Salinas. Owners, City of Salinas. City Engineer Davies was instructed at the last meeting of the City Council to draw up plans and specifications for the improvement of John street from the east line of Main street to the west line of Front street, to be paved with hydraulic concrete base and a two-course asphalt and screening wearing surface, with concrete curbing and gutters. Further mention will be made of this work.

STREET IMPROVEMENTS—Cost not stated. Palo Alto, Santa Clara Co., Cal. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The City Council at a special meeting last week settled the question of the kind of street paving to be laid, and decided,

pon the Board of Works recommenda-on, to lay a half-inch sand and oil oating on a five-inch concrete base. he streets to be paved are as fol-ows: Webster and Cowper streets for heir entire length; Addison, Lincoln nd Homer avenues for their entire ength; one block of Scott street; one lock of Gilman street, four blocks on ippling street; Bryon street from yton avenue to the creek; Middle-eld road from Melville to Embarca-ero; Everett avenue from Middlefield o the creek; Fulton street from Lytton o the creek, Forest avenue from Mid-lefield to Hale; Guinda from Hamil-on to the creek; Tasso street from niversity to Lytton; Ruthven avenue rom Waverly to Cowper; Lytton ave-ue from Middlefield to Guinda. This nakes approximately seven miles of avement to be laid. Further mention vill be made of this work when bids re called.

STREET IMPROVEMENT — Cost not tated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Red-wood City. Owners, Redwood City. The Board of Trustees at their meeting last Monday adopted plans and specifica-ions and passed resolutions ordering he construction of concrete shoulders along the county road on either side of the State Highway between the Five points and Rogers street. The specifi-cations call for a 5½-inch concrete base and asphaltic wearing surface and includes the necessary gutters and culverts. The average width of the shoulder is to be seven and one-half feet. Plans may be had from the City Clerk at Redwood City.

HIGHWAY CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. The Supervisors at their meeting last Monday took up the matter of the construction of the Hills-borough to Halfmoon Bay road. Sur-veyor James W. Neuman presented plans and specifications for that por-tion of the above road between the Hillsborough city limits and the Poor Farm road. The new road is to con-sist of a five-inch concrete base with an asphaltic oil wearing surface. The plans and specifications were adopted. Surveyor Neuman also presented plans and specifications for a 6-inch mac-adam road for that portion between Crystal Springs road and Halfmoon Bay; also alternate plans and specifica-tions for a four-inch concrete base with an asphaltic oil surface for that portion between Pilarcitos Creek and Halfmoon Bay. The above plans and specifications were adopted, and the clerk was instructed to advertise for bids for both improvements up to March 20th, 10 a. m. Plans may be had from the County Clerk at Redwood City.

SEWER CONSTRUCTION—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Bids will be opened on March 20th for sewer construction in Palm street, as shown on plans, with 624.25 lineal feet of vit-rified, salt-glazed, ironstone sewer pipe having and internal diameter of 6 inches; also 25 Y branches, each having a 4-inch opening and 3 brick manholes with cast iron rings, covers and dust pans, be constructed on said sewer at points shown on plans. Said Y branches shall be constructed of first quality vit-rified salt-glazed ironstone sewer pipe.

ROAD CONSTRUCTION — Cost not stated. Salinas, Monterey Co., Cal. En-gineer, County Surveyor H. F. Coz-zens, Salinas. Owners, Monterey Coun-ty. At the last meeting of the County Supervisors three sets of plans and specifications of County Surveyor H. F. Cozzens were accepted by the Board and bids for them will be opened on Tuesday, April 4th. They are the ten-mile grading on the new San Lucas-Coalinga mountain road, the oil mac-adamizing of the six miles of Monterey-Carmel road to Hatton's corner, and the sixteen miles of four-foot wide coast trail from Posts to Slate's Hot Springs. Plans may be had from the County Clerk at Salinas.

STREET IMPROVEMENTS — Cost not stated. Monterey, Monterey Co., Cal. Engineer, City Engineer, Monte-rey. Owners, City of Monterey. At the City Council's last meeting resolu-tions ordering work on Tyler and Pearl streets and also calling for bids were adopted. Plans may be had from the City Clerk at Monterey.

SEWER CONSTRUCTION—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Red-wood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were passed ordering the work and calling for bids on the James avenue sewer extension, curbs and gut-ters on Main street and Broadway in the principal business section, side-walks on portions or Arguello, Winslow and Brewster streets. April 3rd was fixed as the date for opening bids on these pieces of work. Plans may be had from the City Clerk at Redwood City.

STREET IMPROVEMENT—Cost not stated. Monterey, Monterey Co., Cal. Engineer, City Engineer, Monterey. Owners, City of Monterey. Bids will be received until March 21 at 7:30 p. m. for the following street improve-ments: Pearl street to be graded and macadamized from gutter line to gutter line, macadamized sidewalk and con-crete curb and gutters. Also, for the improvement of Tyler street from Pearl street to Franklin street. The road-way to be graded and paved with as-phaltic macadam from gutter line to gutter line. Concrete sidewalks and concrete curbs and gutters.

SALINAS, MONTEREY CO., CAL.—Street pavement, $24,989.36. Engineer, City Engineer, Salinas. Owners, City of Salinas. The Granite Rock Co. of Salinas was awarded the contract for putting the oil-bound macadam on the Monterey-Salinas road from the junc-tion of the Laurellos road to Monterey. There were three bidders, the Granite Rock Co., $24,989.36; W. A. Dontanville, $25,599.96; Western Motor Draying Co., $26,409.86. This road will be construct-ed of oil-bound macadam, 12 feet of macadam with a 3-foot shoulder on each side, making a total width of 18 feet.

SCHOOLS—3, 1 story and base, frame and concrete, $75,000. Daly City, San Mateo Co., Cal. Architects, Ed-wards & Norberg, Bank Bldg., Burlin-game. Owners, Daly City. The archi-tects have been commissioned to pre-pare plans for three new buildings, two to contain four class rooms and one to contain eight class rooms. Con-struction depends on the carrying of a bond issue, but it is stated that the people are strongly in favor of the proposed issue and that it will be sure to carry. Further mention will be made of the work.

STORES AND OFFICES—2 story and base, reinforced concrete, $15,000. Bur-lingame, San Mateo Co., Cal. Archi-tects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, Judge Lamb and F. D. Lawton. Location, corner of Bur-lingame and Park, covering an area of 50 by 100 feet. Will contain stores, offices and some living apartments. In-terior finish pine. Patent store fronts and marble bases. Steam heat and hot water system. Exterior faced with ce-ment plaster. Plans complete and fig-ures to be called for at once.

STORES AND OFFICES—2 story and base, reinforced concrete, $10,000. Bur-lingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Bur-lingame. Owner, Attorney Kirkbride. Location, Burlingame avenue. Will contain two stores and offices. Interior finish pine and gum. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans com-plete and figures to be called for at once.

Contracts Awarded.

STREET IMPROVEMENT—$2,882.75. Monterey, Monterey Co., Cal. Engineer, City Engineer, Monterey. Owners, City of Monterey. Contractor, Ernest H. Sundberg, Oakland Bank of Savings, Oakland. Contract price, $2,882.75.

STREET PAVEMENT—$24,989.36. Sa-linas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. The Granite Rock Co. of Sa-linas was awarded the contract for put-ting the oil-bound macadam on the Monterey-Salinas road from the junc-tion of the Laurellos road to Monterey. There were three bidders, the Granite Rock Co., $24,989.36; W. A. Dontan-ville, $25,599.96; Western Motor Dray-ing Co, $26,409.86. This road will be constructed of oil-bound macadam, 12 feet of macadam with a three-foot shoulder on each side, making a total width of eighteen feet.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENT — $18,000. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Engi-neer was directed to advertise for bids for street work in Central avenue, West and North streets, at the last meeting of the Town Trustees. Bids close March 20th, 8 p. m. Plans may be secured at the office of the Town Clerk at Sausalito.

HIGHWAY CONSTRUCTION — Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor, Mar-tinez. Owners, Contra Costa County. Bids will be received on March 27th at 11 a. m. for furnishing materials and labor and constructing a road with a concrete base on Division No. 2 of the Tunnel road, Contra Costa County, a distance of 7 miles and 500 feet, more or less.

STREET PAVING—Cost not stated. Antioch, Contra Costa Co., Cal. Engi-neer, Town Engineer, Antioch. Own-ers, Town of Antioch. At the last meeting of the Town Trustees a reso-lution adopting plans and specifications No. 27-A, being for the work of paving the block leading west from the Santa Fe water tank to the west end of the

depot, was passed as was also the resolution ordering the work. Bids on this work will be called for shortly.

CONCRETING ROAD—Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, ounty Surveyor R. R. Arnold, Martinez. Owners, Contra Costa County. Plans have been completed by County Surveyor R. R. Arnold for the concreteing of the Tunnel road from Bryant Station to Walnut Creek, a distance of about seven miles. The Supervisors will call for bids on this work at their next meeting.

SEWED CONSTRUCTION—Cost as follows. Antioch, Contra Costa Co., Cal. Engineer, City Engineer, Antioch. Owners, City of Antioch. At the last meeting of the Trustees, R. P. Easley, 720 Steiner street, San Francisco, was awarded the contract for constructing sewers in 2nd, 4th, 6th and 7th streets, his price being 40c per lineal foot for straight pipe and 50c for the Y connections. The Antioch Hardware and Furniture Co. was the only other bidder for the work.

CULVERTS — Reinforced concrete. Cost as follows. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the following bids were received for building three concrete culverts on Watt avenue, one on C street near Mahan Creek and on Hayes street and the railroad crossing: Marin Rock Co., $3,319.50; Crest & Heffernan of San Francisco, $2,875; Robert Pearson, $2,835; McRea & Lazay, $3,248; A. J. Fairbanks of San Francisco, $3,329; Gildersleeve Contracting Co. of Napa, $3,631; Mezzetti & Bottini, $4,050.80; Jos. Kappenmann, $2,500. The contract was awarded to Jos. Kappenmann, 491 4th street, San Rafael.

ROAD CONSTRUCTION—$13,000. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors four bids were received for the Willow Camp road—along the east side of Bolinas Bay from Willow Camp to the San Rafael-Bolinas road—a distance of 4.6 miles: Macrae & Layaz of San Francisco, $21,500; Marin Rock Co., San Anselmo, $17,000; A. J. and J. L. Fairbanks, $16,511.60; Peterson & Grier, San Francisco, $14,940. The cost of all the work is more than the Board desired to put in the road, and it was decided to eliminate three sections of the road, section 1 in front of the McKinnon property, and sections 11 and 12 on the Willow Camp end of the road, as these portions of the present road are in a pretty good shape. This reduces the cost to less than $13,000 and the contract was awarded to Peterson & Grier, 62 Post street, San Francisco.

CREAMERY—1 and 2 story and base, brick, $18,000. Vallejo, Solano Co., Cal. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, A. Dorse Reese. Will cover an area of 40 by 135 feet. Interior finish tile and marble. Special machinery. Tile floor. Patent store fronts and marble bases Exterior faced with white glazed brick. Plans being prepared and figures to be called for shortly

THEATRE AND STORES—2 story and base, brick and steel. Cost not stated. Martinez, Contra Costa Co., Cal. Architect, Al Mazurette, Martinez. Owners, J. E. Rogers and Mr. Jones. Location, Mill and Escobar, covering an area of 60 by 125 feet. Theatre will seat 1,000 people. Upper floor arranged for offices. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

HOSPITAL COTTAGE ALTERATIONS—Frame and concrete, $12,425. Napa, Napa Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Contractors, Paramount Building Co., 45 Kearny street, S. F. Contract price, $12,425.

ROAD CONSTRUCTION—$5,500. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. Contractor, S. P. Brownlee, Kentfield. Contract price, $5,500.

WATER MAIN EXTENSION—Cost as follows. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The following bids were received for furnishing cast iron pipe for the extension of the salt water mains from A and 2nd streets to E street and H street: U. S. Cast Iron Pipe Co., $2,250 for 53 tons, at $40 a ton, and fittings: Geo. W. McNear, $2,216.50, at $39.40 a ton. The contract was awarded to Geo. W. McNear.

CHURCH—1 story and base, frame, $5,700. Concord, Contra Costa Co., Cal. Architect, Francis W. Reid, 1725 6th avenue, Oakland. Owners, Concord Presbyterian Church. Contractor, P. M. Sanford, 610 Macdonald avenue, Richmond. Contract price, $5,700.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

STREET ROLLER—Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. At the last meeting of the City Council the bids submitted by the Austin Western Roads Machinery Co., 20 Fremont street, San Francisco, and the A. L. Young Machinery Co., 28 Fremont street, San Francisco, were taken under advisement.

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owner, T. J. Reese, 1298 Elmhurst street, Fresno. Location, Alta Vista Tract. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SEWER CONSTRUCTION—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, ity of Fresno. At the last meeting of the City Council resolutions of intention were passed for a 6-inch lateral sewer in the alley through blocks 6 and 7 of Belmont Addition, the city to pay half the cost, and for the macadamizing of Sarah street; also for the opening of the north end of H street to Park avenue Bids on this work will be called for shortly.

SEPTIC TANK—$4,700. Madera, Madera Co., Cal. Engineer, W. H. Castner, care of City Clerk, Madera. Owners, City of Madera. At the last meeting of the City Trustees the plans and specifications for the septic tank proposed to be erected at the west end of Yosemite avenue were received from W. H Castner and accepted. Bids for this work will be called for shortly.

STREET PAVEMENT—Cost as follows. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. At the last meeting of the City Council contracts for new street work were awarded as follows: Ventura avenue paving, Worswick Street Paving Co., Union National Bank Bldg., Fresno, on a bid of 17c a square foot. Santa Fe avenue paving, Thompson Bros., 1514 H street, Fresno, on a bid of 17½c. Paving of First street from Tulare to Ventura and Kerckhoff street from 1st to 8th street, awarded to California Road and Street Improvement Co., Holland Bldg., Fresno, on their bid of 12¾c. Ventura and Santa Fe avenues are to have bitulithic surfacing and the other streets are to have Warrenite surfacing.

FRESNO, FRESNO CO., CAL—Street pavement. Cost as follows. Engineer, City Engineer, Fresno. Owners, City of Fresno. At the last meeting of the City Council contracts for new street work were awarded as follows: Ventura avenue paving, Worswick Street Paving Co., Union National Bank Bldg., Fresno, on a bid of 17c a square foot. Santa Fe avenue paving, Thompson Bros., 1514 H street, Fresno, on a bid of 17½c. Paving of First street from Tulare to Ventura, and Kerckhoff St., from 1st to 8th street, awarded to California Road and Street Improvement Co., Holland Bldg., Fresno, on their bid of 12¾c. Ventura and Santa Fe avenues are to have bitulithic surfacing and the other streets are to have Warrenite surfacing.

CHURCH—1 story and base, brick. Cost not stated. Selma, Fresno Co., Cal. Architect, Robert Orr, Van Nuys Bldg., L. A. Owners, Selma Christian Church. Built in form of an L each wing being 56 by 34 feet. Will contain main auditorium, Sunday school rooms and social parlors. Interior finished in oak. Art glass windows. Furnace heat and open fire place. Exterior faced with pressed brick. Plans being prepared.

CITY HALL ALTERATIONS—2 story brick. Cost not stated. Fresno, Fresno Co., Cal. Architect, Eugene Mathewson, Fresno. Owners, City of Fresno. Plans will provide for the removal of the entire police department to the west and north side of the upper floor, a steward's room, two operating rooms and two ward rooms in a bigger emergency hospital. Complete plans and specifications with an estimate of the cost will be submitted at the next meeting of the City Council, when the Clerk probably will be instructed to advertise for bids.

SCHOOL EQUIPMENT AND SUPPLIES—Cost not stated. Fresno, Fresno Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Until noon March 25th bids will be received by the State puchasing agent, room 87 State Capitol Bldg., Sacramento, for furnishing the following equipment, or any part thereof, for the State Normal School at Fresno: Shades for 398 windows, more or less; rugs, 45, more or less; steel lockers, 367, more or less; auditorium and lecture room chairs, 1100, more or less; desks for pupils, 180, more or less; cafeteria equipment, model househoul equipment, domestic science equipment, manual training

pment, physiological equipment, sical equipment, bacteriological pment, biology equipment, chem- apparatus, gymnasium equipment, niture for faculty room, rest rooms. Certified check for 10 per cent, able to State of California. W. G. lillan, purchasing agent.

Contracts Awarded.

OAD CONSTRUCTION—Cost as fol- s. Bakersfield, Kern Co., Cal. En- eer, County Surveyor, Bakersfield. ners, Kern County. The County ervisors at the last session awarded hway contracts as follows: ection 8, Bakersfield-Mojave road— nson & Sons, $29,881.85; Marin Rock , $43,670.25; Robert Sherer, $29,881.- Contract was let to Robert Sherer, ific Electric Bldg., Los Angeles. ection 6, Bakersfield-Glennville road Castro & Blaisdell, $9,129.02; Mesmer Rice, $11,025.60. Spring Construction , $11,958.62. Awarded to Castro & laisdell, Bakersfield. Section 4, Bakersfield-Taft road— stro & Blaisdell, $58,680.95; Lynn S kinson, $56,877.41; Mesmer & Rice, 1,870. 26; Marin Rock Co., $58,192.91; Lean Construction Co., $57,267.37; ring Construction Co., $61,798.33; nson & Sons, $56,547.08. The con- act was awarded to Geo. S. Benson & ns, Stimson Bldg., Los Angeles. ELECTROLIERS — $1,278. Fresno, resno Co., Cal. Engineer, City Engi- er, Fresno. Owners, City of Fresno. ontractors, Central States Electrical ., Fresno. Contract price, $1,278.

ACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

SEWER CONSTRUCTION—$13,364.50. ockton, San Joaquin Co., Cal. Engi- eer, City Engineer, Stockton. Own- rs, City of Stockton. At the last meet- ng of the City Council plans and speci- cations were adopted for storm sew- rs to be insalled on portions of Stock- on, Edison, Hunter, Lincoln, Monroe, ommerce, Center, Sierra Nevada, Park, ose, Jefferson, Ophir, East, Lindsay, urora, Fremont, Flora, Worth and An- erson streets. The plans call for rogressive payments and sealed bids ave been called. Plans may be had rom the City Clerk at Stockton.

HARBOR IMPROVEMENT—Cost not tated. Crescent City, Del Norte Co., al. Engineer's name not given. Own- rs, Del Norte County. Notices are be- ng published in Del Norte County papers by the Board of Harbor Com- nissioners of Del Norte County, which ead in part as follows: Notice is ereby given, that the Board of Har- bor Commissioners of Del Norte Coun- ty, State of California, did on the 15th day of February, 1916, file with the Board of Supervisors of Del Norte County, detiled plans and specifica- tions for the best and most feasible plan of improving and developing and protecting Crescent City Harbor: also an estimate of the cost thereof, and the amount necessary to be raised by the issuance and sale of bonds of the said County of Del Norte to do the work, together with full and compre- hensive report and findings of their investigation of said Crescent City Harbor. The matter will be taken up by the Supervisors at their next meet- ing, March 8th. Further mention will be made of this work.

RESIDENCE — 1 story and base, hollow tile, $4,500. Sacramento, Cal. Architect, none Owner, C. L. Katzen- stein, 1229 P street, Sacramento. Lo- cation, 1100 Maple avenue. Will con- tain seven rooms, bath and sleeping porch. Interior finish pine and red- wood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Fur- nace heat. Bath room tile. Exterior covered with cement plaster. Auto- matic water heater. Plans complete and work to be done by Day Labor.

RESIDENCE REPAIRS—$1,500. Sac- ramento, Cal. Architect, none. Owner, Campbell Briggs, 3315 J street, Sacra- mento. Location, 1708 K street. Work will consist of new interior finish, hardwood floors, plumbing, electric work, plastering and painting. Exte- rior will be covered with cement plas- ter. Plans complete and work to be done by Day Labor.

RECLAMATION WORK — $1,500,000. Sacramento, Cal. Engineer, State Rec- lamation Board, Sacramento. Owners, State of California. The State Recla- mation Board by resolution ordered the construction of the east levee of the Sutter by-pass, which will extend from the mouth of Butte slough at the foot of the Buttes to the river, about 22 miles. The time when the work will commence and the cost thereof de- pends upon the report of the State flood control engineer, who was di- rected, also by resolution, to make an inspection of the projected levee to as- certain the cost and other data on the levee. It is estimated that the cost together with such additional work as will be entailed by the levee will be between $1,500,000 and $2,000,000.

SCHOOL ADDITIONS—2, 1 story, frame. Cost not stated. Roseville, Placer Co., Cal. Architect, none. Own- ers, City of Roseville. Bids will be re- ceived until March 18th for construct- ing additions at two of the city schools. Plans and specifications can be secured from the Clerk of the Board of Educa- tion.

SCHOOL SWIMMING POOL—Rein- forced concrete. Cost not stated. Chico, Butte Co., Cal. Architect, none. Own- ers, State of California. A reinforced concrete swimming tank will be erect- ed at the Chico Normal School. Work will be done by Day Labor. The tank will be 25 by 60 feet.

Contracts Awarded.

RESIDENCE — 2 story and base, frame, $3,850. Ferndale, Humboldt Co., Cal. Architect, Frank T. Georgeson, Eureka. Owner, Dr. A. M. Dinsmore. Contractors, James Scott & Matt Olsen, Eureka. Contract price, $3,850.

RAILROAD CONSTRUCTION — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Contractors, Twohy Bros., First National Bank Bldg., S. F. Contract covers the con- struction of 260 miles of railroad from Eureka to Coos Bay, Oregon. William Hood is the Chief Engineer in charge of the work.

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGES—Reinforced concrete. Cost as follows. Santa Barbara, Santa Bar- bara Co., Cal. Engineers, Johnson & Mayberry, Santa Barbara. Owners, Santa Barbara County. The following bridge bids were opened by the Board of County Supervisors at the last meet- ing. The contract for the reinforced concrete bridge across Zaca Creek at station 148-00, designed by Engineers Johnson & Mayberry, was let to Krug & Co. for $10,136. The next lowest bid was from Allison & Cole Construction Co., at $10,870. Munoz & Munoz of Los Angeles submitted the highest bid at $11,666. Engineers' estimate, $11,500. The bids on the Thomas three-hinged reinforced concrete skew bridge across Gaviota Creek at station 109-49 to 109- 63 were: E. A. Garland, Santa Bar- bara, $13,690; J. C. Lillis, $13,700; Boardman Construction Co., $14,750; Ira Eskew, $14,850; Municipal Con- struction Co., $15,380; C. E. Cotton, $15,852; Munoz & Munoz, $16,366; Mer- cereau Bridge and Construction Co., $17,740; Mesmer & Rice, $17,657. Bids were taken under advisement. The bids on the second Thomas concrete arch bridge across Zaca Creek at sta- tion 103-65 to 104-79 were: J. C. Lillis, $12,900; E. A. Garland, $13,450; Whit- lock & Gorrill, $15,730; Ira Eskew, $14,339. Boardman Construction Co., $14,400; Municipal Improvement Co., $14,570; C. E. Cotton, $15,470; Munoz & Munoz, $15,549; Mercereau Bridge and Construction Co., $16,560; Mesmer & Rice, $17,064. Bids were taken under advisement.

MAUSOLEUM — 1 story and base, steel and concrete. Cost not stated. Whittier, Los Angeles Co., Cal. Archi- tect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Will contain chapel and 500 crypts. Interior finish stone and cement. Plumbing. Exterior faced with cement plaster and granite. Orna- mental bronze and plaster work and art glass. Plans complete and figures being taken.

CITY HALL—2 story and base, brick. Cost not stated. Burbank, Los Angeles Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Besides the various city offices the building will contain a li- brary, quarters for the fire depart- ment and police department. Interior will be finished in pine and hardwood with some maple floors. Furnace heat. Exterior faced with pressed brick. Special jail equipment. Plans being prepared.

SCHOOL—1 story and base, rein- forced concrete, $80,318. El Centro, Imperial Co., Cal. Architect, S. B. Zim- mer, El Centro National Bank Bldg., El Centro. Owners, El Centro Union High School District. Contractor, Geo. Herz, El Centro. Contract price, $80,- 318, general construction. Plastering awarded to M. W. Anderson, El Cen- tro, $8,786.

Contracts Awarded

CEMENT Cost as follows. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The bid of the California Portland Cement Co. for cement for county roads was accepted by the Su- pervisors last week. The rate being $1.73 per barrel less a return credit of 40c per barrel for sacks.

WAREHOUSE—3 story and base. Class C construction, $30,000. Los An- geles, Cal. Architect, Charles E. Shat- tuck, Mason Bldg., L. A. Owner, Ray Arnold. Contractors, The Alta Plan- ing Mill Co., 830 McGarry street, L. A. Contract price, $30,000.

PORTLAND AND OREGON

BRIDGES—Steel and reinforced concrete. Cost not stated. St. Helena, Columbia Co., Ore. Engineer, County Surveyor, St. Helena. Owners, Columbia County. Bids will be opened on April 7th at 2 p. m. for constructing the following steel bridges: One 100-foot span over Rock Creek in the town of Vernonia. One 67-foot span over Clatskanie River near the town of Clatskanie. One 50-foot span over Tide Creek near the town of Deer Island. One 50-foot span over Beaver Creek near the town of Delana; or any of said bridges upon which the contractors may elect to bid.

RESIDENCE—2½ story and base, frame and plaster, $25,000. Portland, Ore. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owner's name withheld. Location, Elk Rock Terrace. Will contain twelve rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heating system and open fire places. Mantels tile and marble. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1 and 2 story and base, frame, $25,000. Portland, Ore. Architect, A. E. Doyle, Worcester Bldg., Portland. Owner, Col. Henry Cabell. Location, near Washington City Park. Will contain twelve rooms, three baths and sleeping porch. Interior finished in hardwoods and white enamel. Hardwood floors. Open fire places and steam heat. Hot water system. Mantels tile and brick. Bath rooms tile. Exterior covered with cement plaster. Plans nearly complete.

Contracts Awarded.

GARAGE—2 story and base, brick and reinforced concrete, $40,000. Portland, Ore. Architects, McNaughton & Raymond, Title and Trust Bldg., Portland. Owners, White Co. Contractors, Beers Building Co., Pittock Bldg., Portland. Contract price, $40,000.

SEATTLE AND WASHINGTON

BRIDGE—Steel and concrete, $300,000. Seattle, Wash. Engineer, City Department of Engineering, Seattle. Owners, City of Seattle. Beers Bldg. Co., Pittock Block, Portland, is said to be low on the entire contract for the proposed $300,000 Lake Washington Canal Bridge in Seattle. Unit prices were as follows: Excavation, $3.50 per yard; concrete (all three classes), $6.30 per cubic yard; reinforcing steel, $0.325 per pound; machinery, $1,125 per pound; structural steel, $1.055 per pound. Bids were submitted on the entire bridge by the Jahn Contracting Co., Pearson Construction Co., Puget Sound Bridge and Dredging Co., Nettleton, Bruce & Eachbach, Standifer-Clarkson Co., Porter Bros., J. M. Clapp, Booker, Kiehl & Whipple, J. R. Wood, Pennsylvania Bridge Co., Washington Paving Co., bid on the structure. Meacham & Babcock & Otis bidding on the substructures only.

HARBOR IMPROVEMENTS — $200,000, Tacoma, Wash. Engineer, Don B. Roben, 3017 South 11th street, Tacoma. Owners, Hylebos Creek Port Commission. Full details regarding the proposed dredging of Hylebos Creek and drainage of adjoining property, near this city, have been given out by Don B. Roben, engineer for the Hylebos Creek Port Commission. Plans have been completed for the dredging of Hylebos Creek for a distance of about two miles, using the material for dike construction along the banks for about three miles. Three and a quarter miles of drainage ditches will be constructed and eight sluices of reinforced concrete to cary the water through the dikes. About 1,075 cubic yards of concrete and 74 tons of steel will be required for this. The dike along the creek will be 8 feet wide at the top. The work will cost $200,000. Bids on this work will be called for shortly.

BRIDGES—Reinforced concrete and steel. Cost as follows. Spokane, Wash. Engineer, City Engineer Morton Mac Cartney, Spokane. Owners City of Spokane. City Engineer Morton Mac Cartney has submitted a report and recommendation following two months' investigation of the bridge question here and advises the issuance of bonds in the sum of $358,500 for the construction of new structures and repairs. Preliminary plans indicate that the following new bridges will be necessary: Division street, concrete, $130,000; West Trent street bridge, concrete, $100,000; Post street bridge, concrete, $50,000; East Boone avenue bridge, steel, $40,000; Green street and waterworks bridges, steel, $23,500; Washington street viaduct, repairs, $15,000.

BRICK PAVEMENT—$180,000. Seattle, Wash. Engineer, County Surveyor A. F. Denton, Seattle. Owners, King County. Plans have been completed in the office of County Surveyor A. F. Denton, and forwarded to the State Highway Commission, Olympia, for approval, for the paving with brick of ten miles of permanent highway from the city limits at 14th avenue south to Des Moines, Wash. The work will probably be ready for contractors the first of next week.

ROAD CONSTRUCTION — $54,164. Ritzville, Wash. Engineer, F. R. Hewitt, Ritzville. Owners, Adams County. Bids will be received by the Commissioners of Adams County until March 20th for the grading, graveling, eac., of 12½ miles of permanent highway No. 2-A between Lind and Ralston, Wash. The work consists of the following: Common excavation, 13,250 cubic yards; solid rock, 2,490 cubic yards; common borrow, 5,556 cubic yards; overhaul, 3,660 cubic yards; side surfacing, 37,500 feet; gravel in place, 21,178 cubic yards; spreading metallic surface, 66,181 feet, etc. Work also includes construction of seven reinforced concrete arch bridges. Estimated cost, $54,164. Plans are on file in the office of F. R. Hewitt, construction engineer, at Ritzville, Wash.

WATER SYSTEM—$400,000. Wishkah, Wash. Engineer, Louis D. Kelsey, Aberdeen. Owners, Town of Wishkah. Bids will be received until March 22nd by the City Council of Aberdeen, P. F. Clark, Clerk, for materials involved in the construction of the Wishkah water system for that city. The materials wanted at this time are 250,000 ½-inch steel bands for 28-inch pipe; 350,000 iron band shoes; 2,000,000 feet of finished pipe staves; 55,000 feet of lumber; 25,000 pounds of band iron, 270 air, gate and vacuum valves, 5 sluice gates, etc.

Contracts Awarded.

ROAD CONSTRUCTION—$32,582. Seattle, Wash. Engineer, County Surveyor, Stevenson. Owners, Skamania County. Contractors, General Construction Co., Spokane. Contract price, $32,582.

HOME—3 story and base, brick and frame, $30,000. Seattle, Wash. Architect, B. Marcus Pretica, Pantages Theatre Bldg., Seattle. Owners, Jewish Settlement Home. Contractors, E. J. Rounds Construction Co., Walker Bldg., Seattle. Contract price, $30,000.

THE HOUSTON SHIP CHANNEL.

A ship channel 50 miles long, 27 feet deep, and 200 feet wide at the bottom now connects Houston, Texas, with deep water at the Galveston jetties. A concrete wharf and warehouse have been constructed at a cost of $300,000, and there is available a fund of $3,600,000 for constructing permanent harbor facilities, to be administered by the public harbor board.

Buffalo Bayou, running from Houston to the Gulf or Mexico, has been widened and deepened from time to time during the past 40 years by Government appropriation. In 1912 the plan for the present channel was adopted, and, in order to hasten its completion, Harris County and the city of Houston agreed to pay half the cost, estimated at $2,500,000. The work was carried out by the Federal Board of Engineers and the completed channel was turned over to the Harris County Navigation Board in August, 1914. This was nearly a year in advance of the time estimated for the completion of the channel work. Since that time work on the terminal facilities has been rushed.

At the city end of the channel, above the wharf, is a turning basin 1200 feet long by 900 feet wide and 27 feet deep.

Under the agreement with the Government for the construction of this ship channel, wharfage is to be free to all ships. Two dredges have been provided to maintain the depth of the channel, at a cost of $250,000 each, one being paid for by the Federal Government and the other by the city of Houston and Harris County. The operation of the dredges and the maintenance of the channel will be in charge of the district engineer.

While the terminal facilities are to be municipally owned, opportunity is given private concerns to establish factories on either side of the ship channel on privately owned ground, and already there are a number of concerns so located. An oil company has established a mixing plant on the channel, and has been receiving full cargoes of oil from Mexico ever since the channel was opened. Another concern brings in cargo lots of phosphate from Tampa, Fla., for the manufacture of fertilizers.

Houston is already an important distributing center, with 17 lines of railway, and it is expected that the establishment of regular ship lines for general cargo will increase its importance. The Boca Grande Steamship Co. is already operating a bi-weekly service between New Orleans and Houston, and the inauguration of the Atlantic, Gulf & West Indies Line service will provide direct connection with New York.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
556	Smith	Jones	7850
557	Lynch	Scanlon	3000
558	Kilroy	Reese	1500
559	Triebel	Gillespie	5000
560	Mancuso	Mancuso	1400
561	Bjorkman	Bjorkman	1800
562	Ham	Ham	5000
563	Lindstrom	Lindstrom	1950
564	Costello	Costello	1600
565	Hughes	Hughes	4000
566	Howard	Collman	7985
567	Hind	Jones	3500
568	Hind	Jones	3500
569	Parsons	Knowles	28235
570	Same	W'n Iron	3389
571	Bishop	Bishop	800
572	Michelsen	Michelsen	2700
573	Johnson	Johnson	2500
574	Nielsen	Nielsen	1000
575	Preston	O'Neill	400
576	Risso	Risso	2500
577	Downing	Downing	1000
578	Rebman	Rebman	800
579	Nelson	Nelson	3800
580	Nelson	Nelson	3600
581	Rattjen	Jones	400
582	Rushton	Rushton	3500
583	Rushton	Rushton	3500
584	Owens	Boyyer	500
585	Mutual Biscuit	Pierson	400
586	Avnzino	Ardito	400
587	Mullen	Guilfoy	400
588	McCudden	Nichols	600
589	Larkin	Forderer	850
590	Felton	Novelty	2554
591	Costa	Bonaccorso	2775
592	Am Mar Pt	Nelson	8068
593	Silovich	Stillman	11997
594	Same	Peterson	1685
595	Rednall	Rednall	10400
596	Berry	Commary	9000
597	Jordan	Jordan	700
598	De Matei	Molinari	500
599	W'n Theatre	Novelty	1000
600	Duffey	Duffey	500
601	Finance & Rlty	Owner	2000
602	Vezani	Vezani	600
603	New Msn Theatre	Novelty	1000
604	Leigh	Schultz	2000
605	Same	Same	2000
606	Same	Same	2000
607	Lewis	W'n Hdwd	500
608	Epstein	Plummer	400
609	Hamill	Hamill	2000
610	Same	Same	2000
611	Same	Same	2000
612	Same	Same	2000
613	Same	Same	2000
615	Welch	Snook	4650
616	Same	Atlas Heating	2290
617	Same	Donovan	2900
618	Same	Hillard	2670
619	Same	Forderer	2616
620	Same	Butte	1240
621	Same	Cavanagh	16220
622	Same	Floodberg	3500
623	Same	Floodberg	6600
624	Same	Collman	6300
625	Same	McGilvray	1600
626	Same	Schoenfeld	1750
627	Pirpo	De Martini	5200
628	Ruggles	Davies	2850
629	Bradley	Mohler	6725
630	Leventritt	Van Emon	510
631	Caldwell	Caldwell	3000
632	Same	Same	3000
633	Same	Same	3000
634	Same	Same	3000
635	Same	Same	3000
636	Johnson	Thunberg	5000
637	Scoble	Scoble	30000
638	Scoble	Scoble	12000
639	Scoble	Scoble	9000
640	Kirby	Kirby	4000
641	Parrott Est	Robinson	500
642	Traversaro	Goulealde	400
643	Jordan	Wade	760
644	Wienstein	Bay City	2700
645	Harrington	Baker	2000
646	Dewar	Petersen	1380
647	Same	Cramer	1175
648	Same	Gibbs	1675

FRAME FLATS

556) E SEVENTH AVE 422-5⅜ N Lake N 30xE 120. All work except gas and water heaters, finish hardware, electric fixtures and shades for two-story frame flats.

Owner.....W. I. Smith, Burlingame, California.

Architect...Edw. E. Young, 251 Kearny, San Francisco.

Contractor..Paul K. Jones, 180 Jessie, San Francisco.

Filed Mar. 6, '16. Dated Mar. 6, '16.

Frame up	$1962.50
Brown coated	1962.50
Completed and accepted	1962.50
Usual 35 days	1962.50
TOTAL COST,	$7850.00

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS

(557) W EUREKA 230 S Twenty-second. Two-story and basement frame (2) flats.

Owner.....M. M. Lynch, 24th and Hoffman Ave., S. F.

Architect...None.

Contractor..J. Scanlon, 2468 Geary San Francisco.

COST, $3000

ALTERATIONS

(558) NO. 341 TWENTY-FOURTH Ave. Alterations, additions and repairs.

Owner.....John J. Kilroy, Premises.

Architect...None.

Contractor..John A. Reese, 414 Third Ave., San Francisco.

COST, $1500

FRAME FLATS

(559) S IRVING 32-6 E 11th Ave. Two story and basement frame (2) flats and store.

Owner.....Mrs. A. Triebel, 1031 Stanyan, San Francisco.

Architect...None.

Contractor..G. G. Gillespie, 2214 Divisadero, San Francisco.

COST, $5000

FRAME STORE

(560) W FAXON 100 S Occan. One-story frame store.

Owner.....F. & G. Mancuso, 336 18th, San Francisco.

Architect...None.

Day's work. COST, $1400

FRAME DWELLING

(561) N MUNICH 100 W Cordova. One story and basement frame dwelling.

Owner.....John Bjorkman, 102 Cordova, San Francisco.

Architect...None.

Day's work. COST, $1800

FRAME FLATS

(562) W TWENTIETH 100 S Geary. Two-story and basement frame (2) flats.

Owner.....C. E. Ham, 481 20th Ave., San Francisco.

Architect...None.

Contractor..L. B. Ham, 274 25th Ave., San Francisco.

COST, $5000

FRAME DWELLING

(563) E TWENTY-SEVENTH AVE 125 S Irving. One-story and basement frame dwelling.

Owner.....August M. A. Lindstrom, 230 Moultrie, San Francisco

Architect...None.

Day's work. COST, $1950

FRAME DWELLING

(564) N ARMY 25 W York. One and one-half-story and basement frame dwelling.

Owner.....M. McDonough and L. Costello, 90 St. Mary's Ave., San Francisco.

Architect...None.

Day's work. COST, $1600

FRAME STORES AND FLATS

(565) W COLE 25 N Rivoli. Two-story and basement frame store and (2) flats.

Owner.....Owen Hughes, 2728 24th, San Francisco.

Architect...None.

Day's work. COST, $4000

BRICK MARKET

(566) N BUSH 68-9 W Mason. One-story and basement brick market.

Owner.....Chas. S. Howard, 129 Sutter San Francisco.

Architect...August G. Headman, 747 New Call Bldg., S. F.

Contractor..Collman & Collman, Sharon Bldg., San Francisco.

COST $7985

FRAME RESIDENCE

(567) SW ANZA AND NINETEENTH Ave: Two-story and basement frame residence.

Owner.....The Hind Estate Co., 230 Cole, San Francisco.

Architect...Edw. E. Young, 251 Kearny, San Francisco.

Contractor..Paul K. Jones, 180 Jessie, San Francisco.

COST, $3500

FRAME RESIDENCE

(568) SE TWENTIETH AVE AND Anza. Two-story and basement frame residence.

Owner.....The Hind Estate Co., 230 Cole, San Francisco.

Architect...Edw. E. Young, 251 Kearny, San Francisco.

Contractor..Paul K. Jones, 180 Jessie, San Francisco.

COST, $3500

CLASS "C" LOFT BUILDING

(569) E BEALE, bet. Market and Mission 91-10x137-6. Concrete, etc., carpenter, mill, sheet metal roofing and plumbing for four-story Class "C" loft building.

Owner.....S. S. Parsons.

Architect...Wright & Rushforth, 354 Pine, San Francisco.

Contractor..Knowles & Matthewson, Call Bldg., San Francisco.

Filed Mar. 7, '16. Dated Mar. 2, '16.

Second floor joists laid and concrete walls to that level	$4000
3rd floor joists laid and concrete	

walls to that level..... 4000
11th floor joists laid and concrete walls to that level..... 4000
Roof on and concrete fire walls constructed 4000
Completed and accepted..... 5176
30 days after..... 7059
TOTAL COST, $28,235

Bond, $14,117.50. Surety, Guardian Casualty & Guaranty Co. Limit, 65 days from March 6, 1916. Forfeit, $20. Plans and specifications filed.

(570) STEEL AND IRON ON ABOVE.
Contractor..Western Iron Works, 141 Beale, San Francisco.
Filed Mar. 7, '16. Dated Mar. 2, '16.
One-half work performed....$1270.00
Completed and accepted..... 1271.50
Usual 35 days..... $47.50
TOTAL COST, $3389.00

Bond, $1694.50. Surety, New Amsterdam Casualty Co. Limit, 40 days after March 6, 1916. Forfeit, $10. Plans and specifications filed.

FRAME PLAYHOUSE
(571) S WASHINGTON 137 W Buchanan. One-story and basement frame playhouse.
Owner.....Jas. H. Bishop, 166 Geary, San Francisco.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Day's work. COST, $800

FRAME DWELLING
(572) NW RUSSIA AND NAPLES. Two-story and basement frame dwlg.
Owner.....Chas. Michelsen, 226 Duncan, San Francisco.
Architect ...None.
Day's work. COST, $2700

FRAME DWELLING
(573) W TWENTY-SIXTH AVE 175 S Taraval. One and one-half-story and basement frame dwelling.
Owner.....Edw. A. Johnson, 1445 Larkin, San Francisco.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(574) W FLORIDA 74 N 21st. Concrete foundation and alter flats.
Owner.....Jacob F. Nielsen, 2350 Bryant, San Francisco.
Architect ...None.
Day's work. COST, $1000

REPAIRS
(575) NOS. 939-945 SHOTWELL. Minor repairs for dwelling.
Owner.....Jeanette Preston, 503 California, San Francisco.
Architect ...None.
Contractor..Daniel O'Neill, 278 Natoma, San Francisco.
COST, $100

FRAME FLATS
(576) E TELEGRAPH PLACE 137½ S Child. Two-story and basement frame (2) flats.
Owner.....Virginia Risso, 31 Jasper Place, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(577) W VERMONT 175 S 25th. One story and basement frame dwelling.
Owner.....Richard Downing, Care D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $1000

REMODEL
(578) SE FELLA PLACE & POWELL. Remodel apartments.
Owner.....C. W. Rebmann, 10 East, San Francisco.
Architect ...None.
Day's work. COST $800

FRAME FLATS
(579) S CLARA 250 W Fifth. Two-story and basement frame (2) flats.
Owner.....Emil Nelson, 244 Rivoli, San Francisco.
Architect ...None.
Day's work. COST, $3800

FRAME RESIDENCE
(580) SW BALBOA AND FIFTEENTH Ave. Two-story and basement frame residence.
Owner.....Emil Nelson, 244 Rivoli, San Francisco.
Architect ...None.
Day's work. COST, $3600

ELEVATOR
(581) NO. 1325 PACIFIC. Install electric elevator.
Owner.....Rattjen & Ruffer, Prem.
Architect ...None.
Contractor..V. Jones, 225 Broadway, Oakland. COST, $400

FRAME FLATS
(582) W NINTH AVE 525 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....C. A. Rushton, 751 9th Ave San Francisco.
Architect ...None.
Day's work. COST, $3500

FRAME FLATS
(583) W NINTH AVE 500 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....C. A. Rushton, 751 9th Ave San Francisco.
Architect ...None.
Day's work. COST, $3500

ADDITION
(584) NO. 2324 VALLEJO. Add to dwelling.
Owner.....O. N. Owens, Premises.
Architect ...None.
Contractor..Bovyer & Sons, 2407 California, San Francisco.
COST, $500

ALTERATIONS
(585) SE CROCKER & STEVENSON. Cut three windows and minor changes.
Owner.....Mutual Biscuit Co., Prem.
Architect ...None.
Contractor..Pierson & Lee, 434 Grove, San Francisco.
COST, $400

FRAME DWELLING
(586) N ST. ROSE, bet. Collins and Blake. One-story and basement frame dwelling.
Owner.....S. Avanzino,.
Architect ...None.
Contractor..Andrew Ardito, 1931 Donner Ave., San Francisco.
COST, $400

MARQUISE
(587) NO. 242 TURK. Erect marquise.
Owner.....Mullen Mfg. Co., 64 Rausch San Francisco.
Architect ...None.
Contractor..Guilfoy Cornice Works, 229 8th, San Francisco.
COST, $400

REPAIRS
(588) SW DUBOCE AND CHURCH. Repair fire damage.
Owner.....Mr. McCudden et al, 151 Sutter, San Francisco.
Architect ...None.
Contractor..H. D. Nichols, 1381 Stevenson, San Francisco.
COST, $600

MARQUISE
(589) SW BRYANT AND SIXTEENTH Erect marquise.
Owner.....J. Larkin, Premises.
Architect ...None.
Contractor..Forderer Cornice Works, 265 Potrero Ave., S. F.
COST, $850

ALTERATIONS
(590) S MARKET 150 W Seventh W 75 xS 165. Removal of old marquise and sheet metal work and electrical wiring, glazing, etc., for marquise and wiring and conduit and outlets for 8-750 watt lamps for building.
Owner.....The Felton Co., Mills Bldg., San Francisco.
Architect ...Chas. P. Weeks, Mutual Bank Bldg., San Francisco.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
Filed Mar. 8, '16. Dated Mar. 4, '16.
Completed and accepted.....$1915.74
Usual 35 days..... 638.59
TOTAL COST, $2554.33

Bond, $1277.15. Surety, Maryland Casualty Co. Limit, none. Forfeit, $34. Plans and specifications filed.

FRAME STORE AND FLAT
(591) E BRYANT, bet. 26th and Army. All work for two-story frame store and flat building.
Owner.....Tony and Salvatora Costa.
Architect ...None.
Contractor..Francesco & Giuseppe Bonaccorso, 70 Manchester, San Francisco.
Filed Mar. 8, '16. Dated Mar. 8, '16.
Rough work up and roof on..$693.75
Brown coated 693.75
Completed and accepted..... 693.75
Usual 35 days..... 693.75
TOTAL COST, $2775.00

Bond, none. Limit, 90 days after March 13, 1916. Forfeit, none. Plans and specifications filed.

CLASS "A" BUILDING
(592) SE RINCON PLACE (Ellery) & Bryant E 25xS 90. All work for two-story and basement reinforced concrete Class "A" building.
Owner.....American Marine Paint Co., 149 California, S. F.
Architect ...Chas. Paff & Co., Merchants Exchange Bldg., & Maurice C. Couchot, 110 Sutter, S. F.
Contractor..Nelson & Bauer, Fulton & Grove, San Francisco.
Filed Mar. 8, '16. Dated Mar. 3, '16.
Excavation completed and concrete for footings, foundations and basement walls and 1st floor poured.$2367
Concrete walls of 1st story and mezzanine floor poured..... 1442
Completed and accepted..... 2242
Usual 35 days..... 2017
TOTAL COST, $8068

Bond, $1034. Sureties, W. H. Nolan and E. P. Peterson. Limit, 70 days. Forfeit, none. Plans and specifications filed.

FRAME APARTMENTS
(593) NW FOURTH AVE & CABRILLO W 95xN 25. All work except plumbing, gas fitting and gas radiators for

three-story and basement frame apartments.
Owner.....John Silovich, 675 4th Ave., San Francisco.
Architect ...Albert W. Burgren, 30 Woodland Ave., S. F.
Contractor..Stillman E. Brown, 1434 6th Ave., San Francisco.
Filed Mar. 8, '16. Dated Mar. 7, '16.
Roof rafters on.....$2000
Lathing done 2000
White coat plaster on..... 2000
Completed and accepted..... 2997
Usual 35 days..... 3000
TOTAL COST, $11,997
Bond, $5998.50. Sureties, Wm. Hayes and W. F. Porter. Limit, 100 days from filing. Forfeit, $7.50. Plans and specifications filed.

(594) SEWERING, PLUMBING, GAS fitting and radiators on above.
Contractor..Petersen-James Co., 710 Larkin, San Francisco.
Filed Mar. 8, '16. Dated Mar. 7, '16.
Roughed in $660
Completed and accepted..... 600
Usual 35 days..... 425
TOTAL COST, $1685
Bond, $842.50. Surety, W. W. Allen. Limit, fast as possible. Forfeit, $7.50. Plans and specifications filed.

FRAME RESIDENCE
(595) NE LYON AND GREEN. Two-story and basement 10-room frame residence.
Owner.....W. W. Rednall, 2500 Filbert, San Francisco.
Architect ..None.
Day's work. COST, $10,400

ALTERATIONS
(596) NE MAPLE AND SACRAMENTO Alter and repair apartments.
Owner.....W. T. Berry.
Architect...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..W. T. Commary, Bankers' Invst Bldg., S. F.
COST, $9000
NOTE:—Job one-half completed.

ALTERATIONS
(597) S WASHINGTON 97 W Battery. Minor changes and repair roof and interior.
Owner.....R. Jordan Estate Co., 46 Kearny, San Francisco.
Architect ...H. Geilfuss & Son, 46 Kearny, San Francisco.
Day's work. COST, $700

REPAIRS
(598) NO. 556 VALLEJO. Repair fire damage on dwelling.
Owner.....Mrs. M. De Matei, Prem.
Architect ...None.
Contractor..L. Molinari, Premises.
COST, $500

ELECTRIC SIGN
(599) S MARKET 150 W Seventh. Electric sign
Owner.. ...Western Theatre Co., Prem
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $1000

FRAME DWELLING
(600) S SUNNYSIDE 125 E Genesee. One-story and basement frame dwlg.
Owner.....Mrs. Rose A. Duffey, 526 Joost Ave., San Francisco.
Architect ...None.
Contractor..Edw. A. Duffey, 526 Joost Ave., San Francisco.
COST, $500
feit, $5. Plans and specifications filed.

FRAME RESIDENCE
(601) E FORTY-FOURTH AVE 200 S Geary. Two-story and basement frame residence.
Owner.....Finance & Realty Development Co., 340 Phelan Bldg., San Francisco.
Architect ...None.
Day's work. COST, $2000

ADDITIONS
(602) NW NINETEENTH & WISCONsin. Add foundation and alter dwlgs.
Owner.....John Vezani, 533 Mission, San Francisco.
Architect ...None.
Day's work. COST, $600

ELECTRIC SIGN
(603) NO. 2550 MISSION. Electric sign
Owner.....New Mission Theatre, 2550 Mission, San Francisco.
Architect ...Reed Bros., 105 Montgomery, San Francisco.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $1000

FRAME RESIDENCE
(604) E EIGHTEENTH AVE 27-6 N Judah. Two-story and basement frame residence.
Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(605) E EIGHTEENTH AVE 55 N Judah. Two-story and basement frame residence.
Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(606) E EIGHTEENTH AVE 82-6 N Judah. Two-story and basement frame residence.
Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
(607) NO. 699 MARKET. Alter front.
Owner..... Ellis Lewis, Premises.
Architect ...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., San Francisco.
COST, $500

ADDITION
(608) SW COLLEGE AND MISSION. Add sleeping quarters (pipe construction).
Owner.....M. Epstein, 454 3rd, S. F.
Architect ...None.
Contractor..W. A. Plummer Mfg. Co., 37 Front, San Francisco.
COST, $400

FRAME RESIDENCE
(609) W TWENTY-FOURTH AVE 165 N Balboa. Two-story frame residence
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(610) W TWENTY-FOURTH AVE [illegible] N Balboa. Two-story frame residence
Owner ....Thos. Hamill, 55[illegible] Geary, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(611) W TWENTY-FOURTH AVE [illegible] N Balboa. Two-story frame residence
Owner.....Thos. Hamill, 55[illegible] Geary, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(612) W TWENTY-FOURTH AVE [illegible] N Balboa. Two-story frame residence
Owner.....Thos. Hamill, 5535 Geary San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(613) W TWENTY-FOURTH AVE 267 N Balboa. Two-story frame residence
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(614) W TWENTY-FOURTH AVE [illegible] N Balboa. Two-story frame residence
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect ...None.
Day's work. COST, $2000

PLUMBING
(615) N BROADWAY & BRODERICK N 137-6xW 55. Plumbing for residence.
Owner.....Julia de L. Welch, 244 California, S. F. and San Mateo, Cal.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed Mar. 9, '16. Dated Feb. 24, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $4650
Bond, $2375. Surety, United States Fidelity & Guaranty Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(616) HEATING ON ABOVE.
Contractor..Atlas Heating & Ventilating Co., 4th and Freelon, San Francisco.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $2390
Bond, $1195. Surety, New Amsterdam Casualty Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(617) PAINTING ON ABOVE.
Contractor..Vincent J. Donovan, 729 Minna, San Francisco.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $2900
Bond, $1950. Surety, Massachusetts Bonding & Insurance Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(618) ORNAMENTAL IRON WORK on above.
Contractor..C. J. Hillard Co., 19th and Minnesota, S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.

Payments same as above.....
TOTAL COST, $2670
Bond, $1385. Surety, New Amsterdam Casualty Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(619) ROOFING AND SHEET METAL work on above.
Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $2616
Bond, $1308. Surety, United States Fidelity & Guaranty Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(620) ELECTRIC WIRING ON ABOVE
Contractor..Butte Eng. & Elec. Co., 685 Howard, San Francisco
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $1240
Bond, $620. Surety, New Amsterdam Casualty Co Limit, Nov. 1, 1916. For-

(621) CARPENTRY AND CABINET work on above.
Contractor..Thos. A. Cavanagh, 180 Jessie, San Francisco.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $16,220
Bond, $8110. Surety, Royal Indemnity Co. Limit, Nov. 1, 1916. Forfeit, $20. Plans and specifications filed.

(622) COURT ARTIFICIAL STONE work on above.
Contractor..Floodberg & McCaffery, Monadnock Bldg., S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $5500
Bond, $2750. Surety, The Aetna Accident & Liability Co. Limit, Nov. 1, 1916. Forfeit, $15. Plans and specifications filed.

(623) LATHING AND PLASTERING on above.
Contractor..Floodberg & McCaffery, Monadnock Bldg., S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $6600
Bond, $2300. Surety, The Aetna Accident & Liability Co. Limit, Nov. 1, 1916. Forfeit, $10. Plans and specifications filed.

(624) EXCAVATION AND FOUNDATIONS on above.
Contractor..Collman & Collman Co., Sharon Bldg., S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $6300
Bond, $3150. Surety, New Amsterdam Casualty Co. Limit, Nov. 1, 1916. Forfeit, $10. Plans and specifications filed.

(625) STONE WORK ON ABOVE.
Contractor..McGilvray Stone Co., 7th and Townsend, S. F.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $1600
Bond, $800. Sureties, Chas. E. Tallmadge and Jno. D McGilvray. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

(626) MARBLE AND STONE MANTELS on above.
Contractor..Schoenfeld Marble Co., 265 Shipley, San Francisco.
Filed Mar. 9, '16. Dated Feb. 24, '16.
Payments same as above.....
TOTAL COST, $1750
Bond, $875, Surety, The Aetna Accident & Liability Co. Limit, Nov. 1, 1916. Forfeit, $5. Plans and specifications filed.

FLATS
(627) NE KIRKWOOD AVE 200 SE Phelps SE 25xNE 100. All work for two-story and basement flats.
Owner.....G. Firpo
Architect...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..Paul De Martini, 2869 Octavia, San Francisco.
Filed Mar. 9, '16 Dated Mar. 9, '16.
Frame up $1300
Brown coated 1300
Completed and accepted..... 1300
Usual 35 days..... 1300
TOTAL COST, $5200
Bond, none Limit, 90 days after Nov. 8. Forfeit, $5. Plans and specifications filed.

FRAME RESIDENCE
(628) E TWENTY-FOURTH AVE 100 N Anza 25x120. All work for two-story frame residence.
Owner.....Frank E. Ruggles, 3575 Sacramento, San Francisco.
Architect...Wm. Davies.
Contractor..Wm. Davies, 536 28th Ave., San Francisco.
Filed Mar. 9, '16. Dated Feb. 1, '16.
Frame up and roof on.....$712
Plastering finished 712
Completed 712
Usual 35 days..... 714
TOTAL COST, $2850
Bond, $1425. Surety, Edwin T. Peterson and Jno. J. Mullins. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.
NOTE:—1st report Feb. 19th. No. 894

FRAME FLATS
(629) W TWENTY-FIRST AVE 200 N Lake N 25xW 120 O L 51. All work for two-story frame flats.
Owner.....W. J. and Rose Bradley, 31 21st Ave., San Francisco.
Architect...L. J. Klein.
Contractor..T. E. Mohler, 255 8th Ave., San Francisco.
Filed Mar. 9, '16. Dated Mar. 2, '16.
Frame up and rough roof on...$1681
Brown coated 1681
Completed and accepted..... 1681
Usual 35 days..... 1682
TOTAL COST, $6725
Bond, $3362.50. Surety, New Amsterdam Casualty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ELECTRIC ELEVATOR
(630) MISSION near Twenty-second. All work for one electric sidewalk elevator.
Owner.....Marion Leventritt, New York City.
Architect...G. Albert Lansburgh, 709 Mission, San Francisco.
Contractor..B. C. Van Emon Elevators, Inc., 233 1st, San Francisco.
Filed Mar. 9, '16. Dated Feb. 29, '16.
Machine delivered $255.00
Completed and accepted..... 127.50
Usual 35 days..... 127.50
TOTAL COST, $510.00
Bond, $260. Surety, California Casualty Co. Limit, forfeit, none. Specifications only filed.

FRAME RESIDENCE
(631) W FORTY-THIRD AVE 30 N Fulton. Two-story and basement frame residence.
Owner.....Caldwell & Sons, 110 Jessie, San Francisco.
Architect...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $3000

FRAME RESIDENCE
(632) W FORTY-THIRD AVE 80 N Fulton. Two-story and basement frame residence.
Owner.....Caldwell & Sons, 110 Jessie, San Francisco.
Architect...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $3000

FRAME RESIDENCE
(633) W FORTY-THIRD AVE 105 N Fulton. Two-story and basement frame residence.
Owner.....Caldwell & Sons, 110 Jessie, San Francisco.
Architect...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $3000

FRAME RESIDENCE
(634) W FORTY-THIRD AVE 130 N Fulton. Two-story and basement frame residence.
Owner.....Caldwell & Sons, 110 Jessie, San Francisco.
Architect...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $3000

FRAME RESIDENCE
(635) E FORTY-THIRD AVE 35 N Fulton. Two-story and basement frame residence.
Owner.....Caldwell & Sons, 110 Jessie, San Francisco.
Architect...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $3000

FRAME FLATS
(636) S CORNWALL 107½ W Fifth

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No matter what **kind** of Hardwoods, Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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Ave. Two-story and basement frame (2) flats.
Owner.....Gus E. Thunberg and John Johnson, 640 9th Ave., S. F.
Architect . .None.
Contractor..Gus E. Thunberg, 640 9th Ave., San Francisco.
COST, $5000

FRAME TENEMENTS
(637) NE COMMONWEALTH & GEARY Two-story and basement frame (10) tenements.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $30,000

FRAME TENEMENTS
(638) SE LAKE AND SIXTH AVE. Three-story and basement frame (6) tenements.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $12,000

APARTMENTS AND STORES
(639) N GEARY 52-6 E 19th Ave. Two-story frame (4) apartments and stores.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $9000

FRAME FLATS
(640) E SEVENTH AVE 100 N Geary. Two-story and basement frame (2) flats.
Owner.....J. C. Kirby, 2152-A Market, San Francisco.
Architect ...None.
Day's work. COST, $4000

ALTERATIONS
(641) NO. 415 MONTGOMERY. Alter front and install skylight.
Owner.....Parrott Estate, 409 California, San Francisco.
Architect ...None.
Contractor..Robinson & Gillespie, 1051 Sutter, San Francisco.
COST, $500

FRAME STABLE
(642) E SAN JOSE AVE 80 S 30th. One-story frame stable.
Owner.....G. Traversaro, 591 Filbert, San Francisco.
Architect ...None.
Contractor..V. Gorlealde, 14 Crone, San Francisco.
COST, $400

ALTERATIONS
(643) S WASHINGTON 97 W Battery 40-6 frontage and a depth of 122 and also fronting on Merchant street. All work for alterations and additions to two-story and basement brick loft building.
Owner.....R. Jordan Estate Co.
Architect ...H. Geilfuss & Son, 46 Kearny, San Francisco.
Contractor..Wade & Carlson, 105 Webster, San Francisco.
Filed Mar 10, '16. Dated Mar. 1, '16.
Completed and accepted.....$570
Usual 35 days..... 190
TOTAL COST, $760
Bond, $380. Surety, Maryland Casualty Co. Limit, 25 days. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(644) S POST 63-6 W Buchanan 24x 87-6. All work for alterations and additions to two-story frame residence into store and flats.
Owner.....T. and I. Wienstein.
Architect ...Chas. C. Frye, 20 Montgomery, San Francisco.
Contractor..Bay City Building Co., 681 Market, San Francisco.
Filed Mar. 10, '16. Dated Feb. 17, '16.
Building raised and rough frame up and roof boards on.....$700
Exterior & interior brown coated 700
Completed and accepted..... 625
Usual 35 days..... 675
TOTAL COST, $2700
Bond, $1250. Sureties, Agnes S. Patterson and W. H. Daniels. Limit, 45 days. Forfeit, $5. Plans and specifications filed.

FRAME DWELLING
(645) N BROADWAY 206-6 W Jones W 23xN 60. All work for one-story frame dwelling.
Owner.....Olive E. J. Harrigan, 1120 Hyde, San Francisco.
Architect .. J. H. Baker.
Contractor..J. H. Baker, 335 22nd Ave., San Francisco.
Filed Mar. 10, '16. Dated Mar. 6, '16.
1st floor joists on.....$500
Plaster on 500
House completed 500
Usual 35 days..... 500
TOTAL COST, $2000
Bond, $1000. Surety, Isabel M. Baker. Limit, 60 days. Forfeit, $1. Plans and specifications filed.

FRAME APARTMENTS
(646) N SACRAMENTO 87-6 W Pierce W 50xN 95. Steam fitting, piping, radiators, Johnson oil burning apparatus, hot water and oil tanks for steam heating system for three-story and basement frame apartments.
Owner.....Robert Dewar, 180 Jessie, San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Petersen-James Co., 716 Larkin, San Francisco.
Filed Mar. 10, '16. Dated Mar. 7, '16.
Steam pipes roughed in.....$517.50
Completed and accepted..... 517.50
Usual 35 days..... 345.00
TOTAL COST, $1380.00
Bond, $690. Surety, J. C. Johnson. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(647) PAINTING, VARNISHING paper hanging, etc., on above.
Contractor..Cramer Bros., 742 14th, San Francisco.
Filed Mar. 10, '16. Dated Mar. 7, '16.
Primed and 2nd coat on interior.$391
Completed and accepted..... 391
Usual 35 days..... 393
TOTAL COST, $1175
Bond, $588. Surety, Guardian Casualty Co. Limit, soon as possible. Forfeit, none. Plans and specifications filed.

(648) PLUMBING, SEWERAGE, GAS fitting and water pipes on above.
Contractor..David Gibbs, 654 5th Ave., San Francisco.
Filed Mar. 10, '16. Dated Feb. 16, '16.
Roughed in $628.15
Finished and accepted..... 628.10
Usual 35 days..... 418.75
TOTAL COST, $1675.00
Bond, $838. Sureties, Eva Sugarman and Louis Bernstein. Limits, as soon as possible. Forfeit, none. Plans and specifications filed,

LEASES.

Mar. 6, 1916——NO. 630 KEARNY bet. Commercial and Clay. Mrs Jane I. Martel to P P Kazmaros and Strat Fant. March 14, 1919. $4020.
Mar. 10, 1916—E ARGUELLO BLVD, bet Washington and Jackson; No. 50 Arguello Blvd. Dacie G Monckton to Arthur A Frank. 24 months. $3600.
Mar. 9, 1916—NE EIGHTEENTH AND Castro; No. 495 Castro. Annie M Wulzen to Leo Hertzmann. 5 years. $7200.
Mar. 9, 1916—SE HYDE AND SACRAmento. H Edsell to Gustav Lüders. 5 years. $4920.
Mar. 7, 1916—NO. 2209 UNION SW Cor. Fillmore. Christoph E and Johanna Spannagel to J Rothenberg. 60 months. $2550.
Mar. 7, 1916—SE BACON & GIRARD S 100xE 55; Lots 26 and 27 Blk 5, University Mound Hd Ass'n. Elizabeth Korren to Richard B Young. 5 years. $2100.

NOTICE OF NON-RESPONSIBILITY.

Mar. 7, 1916—N FOURTEENTH 60 W Mission W 40xN 99. Malone Co as to improvements on leased property
Mar. 7, 1916—W POWELL, bet. Ellis and O'Farrell; Nos. 121-123 Powell. Marine Grotto of S F, Co-partnership of Henry Barker and Maurice Bernstein as to improvements on leased property .....

NOTICE OF NON-LIABILITY.

SAN FRANCISCO COUNTY.

Mar. 6, 1916—N SUTTER 181-6 W Powell N 137-6 W 25-4½ S to a pt on N Sutter dist 207-2½ W Powell E 25-8½. Julie Zwieg as to improvements on leased property..

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Mar. 4, 1916—LOT 7 BLK "B" Mission Terrace. John E McCarthy to whom it may concern.....Mar. 3, 1916
Mar. 4, 1916—S CLAY, bet. Buchanan and Webster. The Board of Trustees of the Leland Stanford Jr. University to Vulcan Iron Works..... .....Feb. 24, 1916
Mar. 4, 1916—E LAGUNA 87-6 N Lombard 25x81-3. Andrea Marenzi to Giuseppe Polati.....Mar. 4, 1916
Mar. 6, 1916—W THIRTEENTH AVE 125 S Kirkham S 25xW 120. John O'Reilly to J S Purcell...Mar. 4, 1916
Mar. 6, 1916——NE TWENTY-SIXTH and Dolores E 97-6xN 50. Wm G McDiarmid to whom it may concern .....Mar. 4, 1916
Mar. 6, 1916—SE ANDOVER AND Ogden S 25xE 70. Louis and Marie Siegele to H W Arnold..Mar. 6, 1916
Mar. 7, 1916—N CALIFORNIA 110 E Broderick E 80x132-6. Sockolov Sons Co to whom it may concern... .....March 1, 1916
Mar. 7, 1916—E TWENTY-SEVENTH Ave 225 S Anza S 40xE 120. Ernest E Dunn to whom it may concern... .....Completed —
Mar. 7, 1916—N GREEN 132-6 W Pierce W 32xN 52. Guadalupe Realty Co to W E Greene.Mar. 2, 1916
Mar. 7, 1916—W TWENTIETH AVE 125 N Balboa N 25xW 120. Hugh

T Hearney to whom it may concern .....March 6, 1916

Mar. 7, 1916—N GOLDEN GATE AVE 175 W Buchanan W 30-9x137-6. Congregation Anshey Sfard to J Sockolov Sons Co.....Mar. 1, 1916

Mar. 7, 1916—W ELEVENTH AVE 275 N Fulton N 25xW 120. Bert Windrow to J Johnson...Mar. 4, 1916

Mar. 7, 1916—NW NATOMA 225 SW 7th SW 25xNW 75. James Sheanon to whom it may concern..Mar. 6, 1916

Mar. 7, 1916—NW VALLEJO & DIVISADERO 68x137.6. Marie A Musto to A A Zelinsky.....Mar. 7, 1916

Mar. 8, 1916—S WASHINGTON 106-3 E Steiner E 25x127-8¼. J G Kincannon et al to whom it may concern.....Mar. 8, 1916

Mar. 8, 1916—W VIENNA 200 NE Avalon. Joseph Palmiery to L C Smith ....Mar. 6, 1916

Mar. 8, 1916—E COMMONWEALTH Ave 168.67 N Geary N 40 E 167.41 m or l S 40 m or l W 171.40. Annie E Sweet to Ira W Coburn.Mar. 6, 1916

Mar. 8, 1916—SE CASTRO & CLIPPER S 39xE 80. Paul and Helena Grueninger to Mager Bros.....Mar. 7, 1916

Mar. 8, 1916—E TWELFTH AVE 50 N Cabrillo N 25xE 95. Alton R Lapham to whom it may concern..... .....March 8, 1916

Mar. 8, 1916—S CLEMENT 48 E 33rd Ave E 24xS 100. Fred Angellus to Hantzsche & McKay...Mar. 3, 1916

Mar. 8, 1916—E TWENTY-SECOND Ave 225 S Anza S 25xE 120. Albert J Prevost to George F Cleese..... ....March 6, 1916

Mar. 9, 1916—E VALENCIA 85 S McCoppin S 50xE 167-6. Millie Langley Wright to L N Vesina..Mar. 1, 1916

Mar. 9, 1916—S BUSH 187 W Mason W 42xS 137-6. O'Brien Bros, Inc. to Val Franz & Son, J Gibbs, Otis Elevator Co, L V Riddle, Morrison & Co and Mission Marble Works..... .....March 8, 1916

Mar. 9, 1916—N WASHINGTON 148-6 E Van Ness Ave E 35xN127-8¼. Floyd C Curry to Higginson Co., Inc. .....Mar. 9, 1916

Mar. 9, 1916—E EIGHTH AVE 150 S Geary S 25xE 120. Anna E Thompson to whom it may concern..... .....Feb. 29, 1916

Mar. 9, 1916—E MASON 83-6 S Broadway S 27-6xE 137-6. G De Martini Estate to Paul De Martini.Mar 6, 1916

Mar. 10, 1916—SE LEAVENWORTH & Bernard E 68 S 60 W 23 N 6 W 45 N 54. S J Sterner to whom it may concern.....Mar. 10, 1916

Mar. 10, 1916—NW SANSOME AND Bush N 137-6xW 67-6. P J Walker, Agents Standard Oil Co to Ralston Iron Works.....Mar. 1, 1916

Mar. 10, 1916—E NINETEENTH AVE 25 N Cabrillo N 25xE $1-10. John M Lepetich to Leigh & Schultz... .....March 4, 1916

Mar. 10, 1916—E NINETEENTH AVE 50 N Cabrillo N 25xE $1-10. John M Lepetich to Leigh & Schultz..... .....March 4, 1916

Mar. 10, 1916—NE CABRILLO AND 19th Ave N 25xE $1-10. John M Lepetich to Leigh & Schultz..... .....March 4, 1916

Mar. 10, 1916—W NINTH AVE 75 N Judah 25x90. Mary B Hallett to whom it may concern...Mar. 10, 1916

Mar. 10, 1916—SE GEARY & LEAVenworth S 44xE 83-6. Gerard Investment Co by Arthur F Rousseau to Central Iron Works..Mar. 9, 1916

LIENS FILED

San Francisco

Mar. 3, 1916—W MISSION 190-9 N 25th N 25xW 117-6. National Mill & Lumber Co vs Annie M Schulz and Ratto & Ratto.....$28.50

Mar. 3, 1916—NW COOK & GEARY N 100xW 26-9. Chas J King vs Francis C and H M Berthiaume, German Svgs & Loan Society..... .....$356.26

Mar. 6, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Beach Elec Co vs Carrie and D H Green.$395

Mar. 6, 1916—N PARNASSUS AVE 77-5 W Willard W 25xN 94-4½. O E Evans & Co vs Mary K Carson... .....$378.41

Mar. 7, 1916—SE THIRD & TEHAMA 30x105. Malott & Peterson vs Chas S Howard, Walter H Sullivan and John Doe Baker.....$72.40

Mar. 7, 1916—W EIGHTEENTH AVE 125 S Geary S 25xW 120. Martin and Hans Nelson vs Emma and Bertha Scheib.....$189.95

Mar. 7, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. W P Fuller & Co vs G Cavaglieri and Jos F Fogarty $29.50

Mar. 7, 1916—SE NINETEENTH AND Noe S 57xE 53. W P Fuller & Co vs G Cavaglieri, M J Risso and G Obertelli $240

Mar. 8, 1916—SE NINETEENTH AND Noe E 53xS 57. Vermont Marble Co vs M J Risso, G Obertelli and G Cavaglieri $205

Mar. 8, 1916—SW BRAZIL AVE 75 SE Vienna SE 25xSW 100 Blk 64 Excl Hd. Pieyre Adrien vs Paul Gely or Gely Paul.....$301

Mar. 8, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to a pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. Wilson Bros & Co vs Louise D and J C Brickell, Murray Vandall, E M Reagh and John Brickell Co.....$1080.90

Mar. 8, 1916—NW GEARY & COOK N 100 W 26-9 S 100 th N to beg. G H Oakley & Co., Inc (bankrupt) and D J Byron, Trustee ve Francis C and H M Berthiaume. $120

Mar. 8, 1916—NW TWENTY-FOURTH and Poplar Alley W 30 N 83 NE to W Poplar Alley S 83-6. A E Wright vs Saporitti & Benetti and J S McLelland $78

Mar. 9, 1916—SE NINETEENTH AND Noe 55.7x53 east. S Spediacci vs M J Risso, G Obertilli and G Cavaglieri $176

Mar. 9, 1916—SE NINETEENTH AND Noe S 57xE 53. P E Depaoli, $90; Rege Bros, $320; C D Lieb(as Eagle Elec Co), $355 vs M J Risso, G Obertelli and G Cavaglieri.....

Mar. 9, 1916—SE NINETEENTH AND Noe E 53xS 57. Acme Lumber Co vs M J Risso, G Obertelli and G Cavaglieri $757.47

Mar. 9, 1916—SE NINETEENTH AND Noe S 57xE 53. John Cassaretto vs M J Risso and G Obertelli....$290.60

Mar. 9, 1916—SE NINETEENTH AND Noe S 57xE 53. J S Guerin & Co, $502.65; G Chessare, $152 vs J Piconi, G Cavaglieri, M J Risso and G Obertelli .....

Mar. 9 1916—SE NINETEENTH AND Noe S 57xE 53. J Piconi vs M J Risso, G Cavaglieri and G Obertelli $680

Mar. 9, 1916—SE NINETEENTH AND Noe E 50 S 57 W 53 N 57. Philip Marchi, $600; F G Norman & Sons, $193.15; Joseph Guglielmo, $224 vs M J Risso, G Obertelli and G Cavaglieri .....

Mar. 9, 1916—SE NINETEENTH AND Noe. R T Engelbrecht vs M J Risso and G Cavaglieri.....$55

Mar. 9, 1916—S PACHECO W of Alton Lot 4 Blk 2840, Forest Hill Court. J G Guerin & Co vs H A Lehfeldt and E M Reagh.....$148.39

Mar. 9, 1916—S FILBERT 67-6 W Steiner W 80xS 137-6. J S Guerin & Co vs H A Lehfeldt, E M Reagh and J Marconi $308

Mar. 9, 1916—NO. 1204 EIGHTEENTH. A Menarini vs H W Streckenbach and G Cavaglieri $65

Mar. 9, 1916—NO. 564 TWENTY-ninth. A Menarini vs J F Fogarty and G Cavaglieri $100

Mar. 10, 1916—S SIXTEENTH 179-8 W Guerrero W 25xS 110. J B Ayres vs Edward and Margaret Perry and Louis R Holm.....$41.25

RELEASE OF LIENS.

SAN FRANCISCO COUNTY.

Feb. 29, 1916—E JOICE 109 S Sacramento S 28-6E parallel with Sacramento 69-6 N 9-6 S 2 W 60. J H Johnson to S Harshbarger.....

Mar. 6, 1916—NE JACKSON AND Cherry E 70 N 112 m or l SW 70-4 m or l E 106-6 2-8. California Granite Co to Mrs Robert M Loeser

Mar. 8, 1916—N BROADWAY 68-9 W Webster W 148-9xN 275. Herbert C Matthews to Jas L Flood and A Knowles .....

Mar. 8, 1916—E DOLORES 147 S 22nd S 36xE 117.6. George Ryan and Credit Clearance Bureau to A Landa and H H Daniel.....

Mar. 9, 1916—FRACTIONAL TIDE Land Blk 51, bounded by Islais, Rankin (R South) and Custer Ave (3rd Ave South). Scott & Turner to J B Coryell.....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
480	Auditorium	Petersen	400
481	De Golia	De Golia	1950
482	Pleitner	Pleitner	2000
483	Truman	Johnston	1800
484	Hart	Hart	1500
485	Koster	Cormack	2000
486	Kundert	Kundert	1600
487	Hanson	Hanson	1500
490	Osborn	Dexter	2500
491	McPike	Palmer	100000
492	Bakewell	Knight	450
493	Levy	Kulchar	1500
494	Joslen	Hammarberg	1350
497	Bertuceli	Benassini	400
498	Nickerson	Studley	500
499	Williams	Williams	1800
500	Dean	Hollenbeck	2200
501	Miller	Miller	500
502	Wiser	Wiser	1600
503	Giesea	Jones	400
504	Schleyer	Ellis	500
505	Wood	Wood	2200
506	Waller	Smith	1400
507	Truman	Johnston	1798
519	Cometo	Martin	1000
520	Pickelman	St. Mary	450
521	MacGregor	Owner	2500
522	Same	Same	2500
523	Chambers	Chambers	2000
525	Wolbold	Wolbold	2500
526	Morris	Morris	1500
527	Kellog	Kellog	1500
528	Dygert	Dygert	2000
531	Case	Hutchinson	2500
532	Jarvis	Peppin	2600
533	Killam	Brasch	3000
534	Englander	Dexter	2500
535	Somps	Stewart	675
536	Dolbier	Dolbier	800
537	Larkey	Dingwell	4000
538	Hall	Corbett	400
539	Wendell	Wendell	500
540	Lippincott	Lippincott	1600

ALTERATIONS
(480) FIRST AVE AND E-12TH, Oakland. Alterations.
Owner.....Auditorium Garage, Prem.
Architect...None.
Contractor..C. Petersen, 1200 E-24th, Oakland.
COST, $400

DWELLING
(481) E SUTER 100 W High, Oakland. One-story 6-room dwelling.
Owner.....E. B. De Golia, 411 Fairmont Ave., Oakland.
Architect...None.
Contractor..W. A. Anderson, 1774 Auseon Ave., Oakland.
COST, $1950

DWELLING
(482) N DAMUTH 200 E Lincoln Ave., Oakland. One-story 5-room dwelling.
Owner.....H. A. Pleitner, 954 Fruitvale Ave., Oakland.
Architect...None.
Day's work.
COST, $2000

ALTERATIONS
(483) NO. 2935 TELEGRAPH AVE., Oakland. Add and alter dwelling and funeral parlors.
Owner.....Chas. H. J. Truman, Prem.
Architect...W. J. Wythe, Central Bank Bdg., Oakland.
Contractor..Johnston Co., 1766 12th Ave., Oakland.
COST, $1800

DWELLING
(484) NE THIRTY-EIGHTH AVE & Kanning, Oakland. One-story 5-room dwelling.
Owner.....Chas. D. Hart, 615 22nd, Oakland.
Architect...None.
Day's work.
COST, $1500

DWELLING
(485) W THIRTY-FIFTH AVE 50 N Deering, Oakland. One-story 5-room dwelling.
Owner.....John E. Koster, 440 Rich, Oakland.
Architect...None.
Contractor..R. Cormack, 589 39th, Okd
COST, $2000

DWELLING
(486) W TWENTY-FIFTH AVE 100 N E-22nd, Oakland. One and one-half-story 6-room dwelling.
Owner.....John Kundert, 117 Athol Ave., Oakland.
Architect...None.
Day's work.
COST, $1600

FRAME DWELLING
(490) S OAKLAND AVE 305 E Arbor Drive, Piedmont. One-story 6-room frame dwelling.
Owner.....Stephen M. Osborn, 444 24th, Oakland.
Architect...None.
Contractor..A. R. Dexter, 820 Athens Ave., Piedmont.
COST, $2500

THEATRE AND STORES
(491) E FRANKLIN 50 N 15th, Oakland. Steel and reinforced concrete theatre and stores.
Owner.....H. C. McPike, 503 Syndicate Bldg., Oakland.
Architect...Edw T. Foulkes, Crocker Bldg., San Francisco.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
COST, $100,000

ALTERATIONS
(492) NO. 2319 GROVE, Oakland. Alterations.
Owner.....John Bakewell, Oakland.
Architect...None.
Contractor..H. C. Knight, 1514 Havenscourt Blvd., Oakland.
COST, $450

FIRE REPAIRS
(493) NO. 474 THIRTEENTH, Oakland Fire repairs.
Owner.....Levy Commercial Co., Okd.
Architect...None.
Contractor..S. Kulchar & Co., E-8th & 10th Ave., Oakland.
COST, $1500

DWELLING
(494) NO. 354 FIFTIETH, Oakland. One-story 3-room dwelling.
Owner.....L. Joslin, Premises.
Architect...None.
Contractor..A. Hammarberg, 3758 Piedmont Ave., Oakland.
COST, $1350

BARN
(497) N FIFTH 150 W Center, Oakland. Two-story barn.
Owner.....R. Bertuceli, 153 Filbert, Oakland.
Architect...None.
Contractor..Pio Benasseni, 5250 Boyd Ave., Oakland.
COST, $400

ADDITION
(498) NO. 860 TWENTY-SEVENTH, Oakland. Addition.
Owner.....B. E. Nickerson, 1704 23rd Ave., Oakland.
Architect...None.
Contractor..W. H. Studley, 714 21st, Oakland.
COST, $500

DWELLING
(499) E LAGUNA AVE 14 S Hopkins, Oakland. One-story 5-room dwelling.
Owner.....E. R. Williams, 1236 37th Ave., Oakland.
Architect...None.
Day's work.
COST, $1800

DWELLING
(500) S WADEAN PLACE 460 W 55th Ave., Oakland. One-story five-room dwelling.
Owner.....Dean & Wade.
Architect...None.
Contractor..G. B. Hollenbeck, Thomson Bldg., Oakland.
COST, $2200

ALTERATIONS
(501) NO. 3525 ARDLEY, Oakland. Alterations.
Owner.....Lewis Miller, 3535 Florida,
(521) W FOURTEENTH AVE 80 N E-Oakland.
Architect...None.
Day's work.
COST, $500

DWELLING
(502) S HOPKINS 125 W 13th Ave., Oakland. One-story 5-room dwelling.
Owner.....Eunice Wiser, 5601 Edgerly, Oakland.
Architect...None.
Contractor..Gordon J. Wiser, 1468 55th Ave., Oakland.
COST, $1600

GARAGE
(503) NO. 808 LERIDA AVE., Oakland. Garage.
Owner.....F. A. Giesea, Premises.
Architect...None.
Contractor..F. G. Jones, 1217 Webster, Oakland.
COST, $400

ADDITION
(504) N TENTH 114 E Madison, Oakland. One-story addition.
Owner.....Ada E. Schleyer, 1431½ Park, Alameda.
Architect...None.
Contractor..Chas. O. Ellis, 2889 Johnson Ave., Oakland.
COST, $500

DWELLING
(505) N PIPPIN 207 E Pear, Oakland. One-story 5-room dwelling.
Owner.....F. T. Wood, 157 Lake Ave., Oakland.
Architect...None.
Day's work.
COST, $2200

DWELLING
(506) N BOND 35 E Fairview Way, Oakland. One-story 6-room dwlg.
Owner.....H. A. Waller, 2354 Telegraph Ave., Oakland.
Architect...None.
Contractor..O. G. Smith, 806 Syndicate Bldg., Oakland.
COST, $1400

ALTERATIONS
(507) SW TELEGRAPH AVE & 30TH, being No. 2935 Telegraph Ave., Oakland. All work except painting, light fixtures, papering and shades for additions and alterations to two-story dwelling and funeral parlor.
Owner.....Chas. H. J. Truman, Prem.
Architect...Willson J. Wythe, Central Bank Bldg., Oakland.
Contractor..Johnston Co., 1766 12th Ave., Oakland.
Filed Mar. 6, 16. Dated Mar. 1, 16.
Roof sheathed $435.00
Plastered 435.00
Completed and accepted..... 435.00
Usual 35 days..... 493.50
TOTAL COST, $1798.50
Bond, $900. Sureties, J. H. McCallum and E. O. Benner. Limit, 10 days. Forfeit, $1. Plans and specifications filed.

FRAME WAREHOUSE
(508) SIXTEENTH & CAMPBELL 25 feet from present building, Oakland. All wor for two-story frame warehouse.
Owner.....Oakland Mazda Lamp Wks. 1618 16th, Oakland.
Architect...Izant & Frink, Cleveland, Ohio.
Contractor..Schnehly, Hostrawser & Pedgrift, 6th and Jackson, Oakland.
Filed Mar. 8, '16. Dated Mar. 8, '16.
Frame up $3333.00
Completed and accepted..... 3332.25
Usual 35 days..... 2221.75
TOTAL COST, $8887
Bond, none. Limit, 30 days. Forfeit, $20. Plans and specifications, none.

DWELLING
(508) NO. 974 THIRTY-SEVENTH (rear), Oakland. One-story 3-room dwelling.
Owner.....Mrs. R. Roullier, 974 37th, Oakland.
Architect...None.
Day's work.
COST, $500

DWELLING
(509) W FORTY-EIGHTH AVE 110 N Bond, Oakland. One story 3-room dwelling.

Owner.....Annie Maguire, 1027 Madison, Oakland.
Architect...None.
Contractor..E. O. George, 1027 Madison, Oakland.
COST, $850

APARTMENTS
(510) E OAK 90 S Tenth, Oakland. Three-story 18-room apartments.
Owner.....V. N. Strang, 1521 9th, Ala
Architect...None.
Day's work. COST, $10,000

FLATS AND STORES
(511) E HAVENSCOURT BLVD 300 S Beck, Oakland. Two-story 8-room flats and stores.
Owner.....F. W. Dewey, 1126 71st Ave., Oakland.
Architect...None.
Contractor..G. W. Baumann, 5360 Trask Ave., Oakland.
COST, $2500

DWELLING
(512) N FORTY-FIFTH 60 E Market, Oakland. One-story 5-room dwlg.
Owner.....J. Armanino, Cor. 45th and Market, Oakland.
Architect...None.
Contractor..D. Raineri, 4125 Market, Oakland.
COST, $1500

STORES
(513) W COLLEGE AVE 160 S Shafter Ave., Oakland. One-story five-room stores.
Owner.....Mrs. B. H. Strong, 5640 Shafter Ave., Oakland.
Architect...None.
Contractor..C. B. Strong, 5640 Shafter Ave., Oakland.
COST, $1150

DWELLING
(514) W SHAFTER AVE 125 S Hudson, Oakland. One-story 5-room dwelling.
Owner.....Anna Matskin.
Architect...None.
Contractor..Riddell Bldg. Service Corporation, 2247 Telegraph Ave., Berkeley.
COST, $1950

DWELLING
(515) W SHAFTER AVE 100 S Hudson Oakland. One-story 5-room dwelling.
Owner.....Anna Matskin.
Architect...None.
Contractor..Riddell Bldg. Service Corporation, 2247 Telegraph Ave., Berkeley.
COST, $1950

DWELLING
(519) N SIXTY-SECOND 20 W Sacramento, Oakland. One-story 4-room dwelling.
Owner.....L. Cometo, 2012 Stockton, San Francisco.
Architect...None.
Contractor..R. Martin, 2989 Johnson, Alameda.
COST, $1000

STORES
(520) W EIGHTY-FOURTH AVE 100 N Birch, Oakland. One-story 3-room stores.
Owner.....C. H. Pickelman, 597 Jersey, San Francisco.
Architect...None
Contractor..Joe St. Mary, 9257 E-14th, Oakland. COST, $450

DWELLING
38th, Oakland. One-story 5-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect..None.
Day's work. COST, $2500

DWELLING
(522) E WOODRUFF 195 N Hampel, Oakland. One-story 5-room dwelling
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(523) E VIEW 410 N Mather, Oakland. One-story 5-room dwelling.
Owner.....J. F. Chambers, 206 Plaza Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
(525) S SONOMA 50 W Tulare, Albany One-story 6-room dwelling.
Owner.....J. Henry Wolbold, 1st National Bank Bldg., Bkly.
Architect...None.
Day's work. COST, $2500

DWELLING
(526) N MARIN 37 W Pomona, Albany One-story 5-room dwelling.
Owner.....A. R. Morris.
Architect...None.
Day's work. COST, $1500

DWELLING
(527) W POMONA 600 S Main, Albany. One-story 5-room dwelling.
Owner.....J. A. Kellog, 3404 Champion Oakland.
Architect...None.
Day's work. COST, $1500

ALTERATIONS
(528) NO. 2926 BENVENUE, Berkeley. Alter and add to dwelling (2 flats.)
Owner.....H. I. Dygert, 2623 Ashby Ave., Berkeley.
Architect...James W. Plachek, Acheson Bldg., Berkeley.
Day's work. COST, $2000

ALTERATIONS
(531) E ALICE 390 S 19th, Oakland. Alter and add to two-story dwelling. (alter into apartments).
Owner.....James R. Case, 1572 Alice, Oakland.
Architect...Hutchinson & McLean.
Contractor..Hutchinson & McLean, 470 13th, Oakland.
COST, $2500

DWELLING
(532) LOT 136, SEQUOYAH HILLS, Oakland. One-story 4-room dwlg.
Owner.....C. F. Jarvis, Oakland.
Architect...None.
Contractor..J. B. Peppin, San Leandro.
COST, $2600

(533) SW HAMPEL AND PARK Blvd, Oakland. One-story, six-room dwlg.
Owner.....Geo. Killam, Oakland.
Architect.....Sone.
Contractor....M. P. Brasch, 5836 Ocean View Drive, Oakland.
COST, $3000

(534) S FOOTHILL BLVD, 150 E 61th avenue, Oakland. One-story, seven-room dwelling.
Owner.....J. Englander, Oakland.
Architect.....None.
Contractor....A. R. Dexter, 820 Athens avenue, Oakland.
COST, $2500

(535) NO. 906 LAKESHORE AVE, Oakland. Two-story, two-room garage.
Owner.....J. Somps, Premises.
Architect.....None.
Contractor....B. A. Stewart, 8 Fairview avenue, Oakland.
COST, $675

(536) SO. 928 E-SIXTEENTH Street, (rear), Oakland. One-story, four-room dwelling.
Owner.....Sarah E. Dolbier, Prem.
Architect.....None.
Contractor....F. D. Dolbier, Prem.
COST, $800

(537) NO. 569-671 FOURTEENTH ST., Oakland. Fire repairs to three-story brick furniture building.
Owner.....Dr. Larkey and Ervine Bros., 1328 Washington, Oakland.
Architect.....None.
Contractor....J. F. Dingwell, 2021 West street, Oakland.
COST, $4000

(538) NO. 1222 BROADWAY, Oakland. Alterations.
Owner.....J. Hall, Premises.
Architect.....None.
Contractor....Corbett & Bayless, 1110 Franklin, Oakland.
COST, $400

GARAGE
(539) NO. 824 LAKESHORE AVE, Oakland. Garage.
Owner.....H. G. Wendell, Premises.
Architect...None.
Day's work. COST, $500

DWELLIG
(540) E PATTERSON 137 N Hopkins, Oakland. One-story 6-room dwlg.
Owner.....W. R. Lippincott, 3014 35th Ave., Oakland.
Architect...None.
Day's work. COST, $1600

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
488	Dempster	Wingate	8800
489	Dempster	Wingate	2200
495	Nach	Nash	1000
496	Paavola	Niemi	650
507	Okd Lamp	Schnebly	8887
508	Roullier	Roullier	500
509	Maguire	George	850
510	Strang	Strang	10000
511	Dervey	Baumann	2500
512	Armanino	Raineri	1500
513	Strong	Strong	1150
514	Matskin	Riddell	1950
515	Same	Same	1950
524	Hilgard	Kidder	450
529	Bischoff	Bischoff	2500
530	Oszdorff	Oszdorff	5000
552	Jahnsen	Foss	5500
541	Martin	Bixby	4500

DWELLING
(487) N PARKER 80 E Mabel, Berkeley. One-story 5-room dwelling.
Owner.....J. S. Hanson, 1633 Josephine, Berkeley.
Architect...None.
Day's work. COST, $1500

APARTMENTS
(488) E REGENT 100 N Stuart, Berkeley. Two-story 16-room apartments.
Owner.....Dempster Estate Co., Inc., Merchants' Exchange Bld.,

San Francisco.
Architect...W. H. Ratcliff Jr., 1st National Bank Bldg., Bkly.
Contractor..Donald P. Wingate, 2330 Carlton, Berkeley.
COST, $8800

DWELLING
(489) E REGENT 100 N Stuart, Berkeley. One and one-half-story six-room dwelling.
Owner.....Dempster Estate Co., Inc., Merchants' Exchange Bld., San Francisco.
Architect...W. L. Brodrick, 1201 Colusa Ave., Berkeley.
Contractor..Donald P. Wingate, 2330 Carlton, Berkeley.
COST, $2200

COAL SHEDS, ETC.
(495) W VALLEY 360 S Channing, Berkeley. Coal sheds and fence.
Owner.....H. Nash, 5844 Ocean View Drive, Oakland.
Architect...None.
Day's work. COST, $1000

DWELLING
(496) N GILMAN 157½ E Sixth, Berkeley. One-story 3-room dwelling.
Owner.....Jalmair Paavola.
Architect...None.
Contractor..A. Niemi, 1730 10th, Bkly.
COST, $650

ALTERATIONS
(524) NO. 2728 BANCROFT WAY, Berkeley. Alterations.
Owner.....Miss Hilgard, Premises.
Architect...None.
Contractor..Kidder & McCullough, 2075 Addison, Berkeley.
COST, $450

DWELLING
(529) E ETON 155 N Claremant, Berkeley. Two-story 9-room dwelling.
Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(530) NE CLAREMONT AND OAK Vale Aves., Berkeley. Two-story and basement 16-room dwelling.
Owner.....William Oszdorff, 125 Guerrero, San Francisco.
Architect...None.
Day's work. COST, $5000

FRAME APARTMENTS
(532) SE SIXTY-SECOND AND GROVE S 45xE 115, Bkly. All work for two-story frame apartments.
Owner.....E. and Anita Jahnsen, 6123 Dover, Oakland.
Architect...None.
Contractor..C. C. Foss & Son, 1212 1st Ave., Oakland.
Filed Mar. 10, '16. Dated Feb. 28, '16.
Enclosed ..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $5500
Bond, none. Limit, 90 days after March 1. Forfeit, none. Plans and specifications filed.

DWELLING
(541) W MARIPOSA 670 S Los Angeles, Berkeley. Two-story 8-room dwelling.
Owner.....W. F. Martin, 2428 Stuart, Berkeley.
Architect...None.
Contractor..R. R. Bixby, 2447½ Market, Berkeley.
COST, $4500

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
516	Rule	Peona	500
517	Ferriter	Ferriter	550
518	Lamy	Hannaberry	450

ALTERATIONS
(516) NO. 770 BUENA VISTA AVE., Alameda. Alterations.
Owner.....W. J. Rule, Premises.
Architect...None.
Contractor..John Perona, 568 7th, Okd.
COST, $500

DWELLING
(517) NO. 915 LAFAYETTE, Alameda. Two-story 3-room dwelling.
Owner.....D. Ferriter, 1900 Clinton Ave., Alameda.
Architect...None.
Day's work. COST, $550

ALTERATIONS
(518) PALM BEACH, Alameda. Alterations.
Owner.....Geo. I. Lamy, Premises.
Architect...None.
Contractor..J. J. Hannaberry, 1550 Turk, San Francisco.
COST, $450

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Mar. 8, 1916—W COLLEGE AVE 160 E Shafter Ave N 28xW 35, Okd. Towle Investment Co as to improvements on leased property....

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Mar. 6, 1916—NOS. 425 TO 437 SIXTH, Okd. Louie Bow Him and Louie Mon Yin as to improvements on leased property .....

BIDS OPENED FOR VACUUM CLEANING.

Bids were opened at the last meeting of the Alameda County Supervisors for furnishing and installing a vacuum cleaning system in the new County Infirmary. E. L. B. Zimmer Vacuum Cleaning Co. was awarded the contract on their bid of $1,241. The following bids were received:

Infirmary Vacuum Cleaning.

E. L. B. Zimmer Vacuum Cleaning Company	$1,241.00
F. B. Drew	1,150.00
Hughson & Merton	1,171.35

ALAMEDA COUNTY SHOWS GAIN IN BUILDING.

OAKLAND BUILDING SUMMARY.

For the Month of February, 1916.

Classification of Bldgs.	No. of Permits	Costs
1-story dwellings	66	$115,990.00
1½-story dwellings	4	9,800.00
2-story dwellings	20	74,334.00
2-story dwlgs. & store	1	2,500.00
1-story dwlgs. & store	1	1,930.00
2-story apartments	1	13,500.00
2-story apartments	2	18,000.00
1-story apartments	1	2,500.00
1-story stores	3	14,675.00
1-story salesroom	1	4,724.00
2-story planing mill	1	15,000.00
1-story warehouse	2	550.00
1-story brick building	1	1,000.00
Brick garages	3	14,500.00
1-st add'n to creamery	1	2500.00
Electric signs	6	2,160.00
Garages, sheds&stables	46	6,952.00
Workshops and barns	2	550.00
Bleachers	1	250.00
Additions	29	13,808.00
Alterations & repairs	93	22,763.00
Total	285	$338,336.00

SUMMARY.

New construction	192	$315,573.00
Alterations & repairs	93	22,763.00
Total	285	$338,336.00
February, 1915	213	328,934.50
Increase over Feb. 1915	72	$9,401.50

Berkeley building operations for
February, 1916.....$210,450.00
February, 1915..... 80,100.00

Increase over Feb. 1915.....$130,350.00

City of Alameda building summary is as follows:
February, 1916.....$72,121.00
February, 1915..... 14,413.00

Increase over Feb., 1915.....$57,708.00

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 4, 1916—N PRINCE 268.65 E College Ave E 71.41xN 112, Bkly. Geo F Maxwell to J Henry Boehrer and Alfred Legault.....Mar. 1, 1916

Mar. 4, 1916—S 12½ LOT 12, all Lot 13 Blk 16 Map Key Route Heights, Okd. Amanda Friberg to Charles Friberg.....Mar. 4, 1916

Mar. 4, 1916—FACING O. T. right-of-way about 50 N E-18th at head of Third Ave, Okd. M E Jones by Wm L Plunkett to Wm L Plunkett.....Mar. 2, 1916

Mar. 4, 1916—E 40 LOT 72 Map Piedmont Manor, Piedmont. Walter H Creighton to whom it may concern .....Completed

Mar. 6, 1916—N EDGERLY 191.80 W 57th Ave W 34xN 110, Okd. E R Williams to whom it may concern .....Mar. 1, 1916

Mar. 6, 1916—LOT 27 Piedmont-by-the Lake Tract, Okd. W P Boardman to Edwin C Graff.....Mar. 5, 1916

Mar. 6, 1916—LOT 27 BLK 17 Thousand Oaks Tract, Oakland Tp. Fred R and Margaret Fuller Jones to Edwin C Graff.....Mar. 4, 1916

Mar. 6, 1916—LOTS 4 AND 5 Map Craig Ppty and Lots 15 and 17 and W ½ Lot 19, Piedmont Tract, Piedmont. Juliette Alexander by C W Dickey to International Casement Co.....Jan. 20, 1916

Mar. 6, 1916—LOTS 4 AND 5 Map Craig Ppty and Lots 15 and 17 and W ½ Lot 19, Piedmont Tract, Piedmont. Juliette Alexander by C W Dickey to Schnebley, Hostrawser & Pedgrift.....Mar. 3, 1916

Mar. 6, 1916—SE JAYNE AVE AND E Perkins SE 130 SW 50 NW 77.31 on curve to left 72.77, Okd. John I Thomas and Frank Moore to whom it may concern....Mar. 4, 1916

Mar. 8, 1916—E PATTERSON 150 S

Kansas S 37½xE 100, Okd. Andrew Anderson to whom it may concern.....Mar. 8, 1916

Mar. 9, 1916—LOT 56 Nova Piedmont, Piedmont. Mabel T Eggleston to V N Strang.....Mar. 4, 1916

Mar. 9, 1916—NE SANTA RITA AVE 180 SE Boulevard Park Ave or 38th Ave, SE 60x130, Okd. Martha McCausland to whom it may concern .....Feb. 8, 1916

Mar. 9, 1916—LOT 25 BLK 5, Fairview Park, on E Dana 300 N Alcatraz Ave, Bkly. F L Waye to whom it may concern.....Mar. 9, 1916

Mar. 9, 1916—E ALICE 1009.10 S 19th S 105xE 128.94, Okd. Edward Sommarstrom to whom it may concern .....March 9, 1916

Mar. 10, 1916—LOT 7 BLK "A" Map Kenwood Park, Okd. C W Glantz to whom it may concern.Mar. 10, 1916

Mar. 10, 1916—LOT 24 Map Madison Square Tract, being E 28th Ave 240 N Birch, Okd. C W Glantz to whom it may concern. .....Mar. 10, 1916

Mar. 10, 1916—LOTS 186 AND 187 Map E. B. and A. L. Stone Co., Elmhurst, Okd. Anna R and Bernard Scheshage to Jos Flittner..... .....March 10, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 6, 1916—NE HARWOOD AND College Aves E 100 N 100 W 60.66 S 107.45, Okd. S E Matthews vs M H Dunham and J F Woodward $250

Mar. 8, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. P H Blake vs Marion H Dunham, A L Haley and J F Woodward $392

BUILDING CONTRACTS

SAN MATEO COUNTY.

RESIDENCE

LOT 10 BLK 37, Redwood Highlands, Redwood City. All work for residence.

Owner.....Redwood Highlands Co., Redwood City.

Architect ...E. R. Kauffman.

Contractor..Thomas Elam & Son, 180 Jessie, San Francisco.

Filed Mar. 7, '16. Dated Mar. 4, '16.

Frame up	¼
Rough plastered	¼
When completed	¼
Usual 35 days	¼
TOTAL COST, $2350	

Bond, $1175. Surety, New Amsterdam Casualty Co., Limit, 60 days. Forfeit, $10 per day. Plans and specifications filed.

RESIDENCE

LOT 10 BLK 37, Redwood Highlands, Redwood City. All work for residence.

Owner.....Redwood Highlands Co., Redwood City.

Architect ...E. R. Kaufman.

Contractor..Thos. Elam & Son, 180 Jessie, San Francisco.

Filed Mar 9, '16. Dated Mar. 4, '16.

Frame up	¼
Rough plastered	¼
When completed	¼
Usual 35 days	¼
TOTAL COST, $2350	

Bond, $1175. Surety, New Amsterdam Casualty Co., Limit, 60 days. Forfeit, $10 per day. Plans and specifications filed.

FRAME BUNGALOW

LOT 11 BLK "E," San Mateo Heights. All work for one-story frame bungalow.

Owner.....M. J. Conway, San Mateo.

Architect ...Will H. Toepke, 46 Kearny, San Francisco.

Contractor..Croop & Keegan, San Mateo.

Filed Mar. 9, '16. Dated Feb. 29, '16.

Frame up	$490
When plastered	490
When completed	490
Usual 35 days	490
TOTAL COST, $1900	

Bond, none. Limit, 70 days. Forfeit, $5 per day. Plans and specifications filed.

FRAME DWELLING

LOT 27 BLK "L," Hayward Park, San Mateo. All work for one-story four-room shingled roof frame dwelling with concrete foundation.

Owner.....A. Wm. Grant, San Mateo.

Architect...None.

Contractor..Croop & Keegan, San Mateo.

Filed Mar. 9, '16. Dated Mar. 8, '16.

Frame up, etc.	$500
Brown plastered	500
When completed	500
Usual 35 days	500
TOTAL COST, $2000	

Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

CONCRETE COLD STORAGE BLDG.

SE. 22 T 3 S R 5 W M D B & M, Directly north and adjoining Owner's present Freezer building, South San Francisco. All work for five-story and basement reinforced concrete cold storage and freezer building.

Owner.....Western Meat Co., 6th and Townsend, San Francisco.

Architect ...B. W. Seymour.

Contractor..Macdonald & Kahn, Rialto Bldg., San Francisco.

Filed Mar. 6, '16. Dated Mar. 4, '16.

On 15th of each month	75%
Usual 35 days	25%
TOTAL COST, $58,260	

Bond, $29,130. Surety, Massachusetts Bonding & Insurance Co. Limit, on or before July 1, 1916 (120 days). Forfeit, $25. Plans and specifications filed.

FRAME DWELLING

NEAR MENLO, Menlo Heights, All work for one-story frame dwelling.

Owner.....Isabelle D. Pool, Menlo Park, Cal.

Architect ...Howard & White, 35 Montgomery, San Francisco.

Contractor..Collman & Duncan, Sharon Bldg., San Francisco.

Filed Mar. 4, '16. Dated Mar. 3, '16.

Frame up	$3585.50
Building plastered	3585.50
When completed	3585.50
Usual 35 days	3585.50
TOTAL COST, $14,342	

Bond, $7100. Surety, New Amsterdam Casualty Co. Limit, 90 days. Forfeit, $10 per day. Plans and specifications filed.

ALTERATIONS

REDWOOD CITY. Alter and add to two-story frame residence.

Owner.....Mrs. M. A. Harris, Redwood City.

Architect ..Ward & Blohme, Alaska Commercial Bldg., S. F.

Day's work. COST, $15,000

FRAME RESIDENCE

SANTA INEZ AVE., Hillsborough. All work for frame residence.

Owner.....Mary Elizabeth Williams, Hillsborough, Cal.

Architect ...Jno. White, 35 Montgomery St., San Francisco.

Contractor..C. Pedersen, San Francisco.

Filed Feb. 28, '16. Dated Feb. 25, '16.

Frame up	$1846.25
When plastered	1846.25
Completed, etc.	1846.25
Usual 35 days	1846.25
TOTAL COST, $7385.00	

Bond, $3700. Surety, National Surety Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

REPAIRING LEVEES

SEAL ISLAND, Reclamation District No. 543, San Mateo. All work for repairing levees.

Owner.....San Mateo Dairy Ranch Co. (Lessee), S. F.

Architect ...None.

Contractor..G. L. Peabody, 2005 90th Ave., Oakland.

Filed Feb. 24, '16. Dated Feb. 10, '16.

30 days after start	$500
Monthly installments of	500
TOTAL COST, $18,247	

Bond, $4,125. Surety, Hartford Accident & Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

ATHERTON AVE near the Alameda, Atherton. All the uncompleted work (Contract with Currie for which notice of Cessation of Labor recorded) for two-story frame residence.

Owner.....Jas. G. Sharp, 135 Stockton, San Francisco and Atherton.

Architect ...W. Garden Mitchell and Charles d. Hodges, Palo Alto.

Contractor..L. A. Hinson, 1279 Jackson, San Francisco.

Filed Mar. 1, '16. Dated Feb. 28, '16.

Upon completion	$890
Usual 35 days	890
TOTAL COST, $1780	

Bond, $890. Surety, Guardian Casualty & Guaranty Co. Limit, 20 days. Forfeit, none. Plans and specifications filed

FRAME DWELLING

SW 50 FEET LOT 20 Map No. 2, Stanford Park, Menlo Park. All work for frame dwelling.

Owner.....Mary E. Doble, 76 Sea Cliff Ave., San Francisco.

Architect ...None.

Contractor..H. Sibley, San Mateo.

Filed Feb. 19, '16. Dated Jan. 12, '16.

Foundation completed	$529
Plumbing completed, etc.	529
When completed	529
36 days after	561
TOTAL COST, $2148	

Bond, $1100. Surety, Hartford Accident & Indemnity Co. Limit, 40 days. Forfeit, none. Plans and specifications filed

COMPLETION NOTICES.

SAN MATEO COUNTY.

RECORDED ACCEPTED

Mar. 1, 1916—NORTHERLY PT LOT No. 1 Blk 102, South San Francisco. F S Dolley to Edward Jorgenson... .....Feb. 8, 1916

Feb. 19, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood. H H

Putnam to whom it may concern.. .....Feb. 18, 1916
Feb. 23, 1916—LOT 8 BLK 2 Burlingame Land Co, Burlingame. Harry W Dessin to A Mattson..... .....Feb. 23, 1916
Mar. 6, 1916—LOT 27 BLK 9 Sub No. 2 of Burlingame Park, Burlingame. William Schinkel to John B Woolfrey.....Mar. 1, 1916

LIENS FILED.

SAN MATEO COUNTY.

RECORDED AMOUNT
Mar. 7, 1916—LOT 25 BLK 1, Burlingame Terrace, Burlingame. Arthur Taxton vs Alfred B Elford and D Charles Scanlan.....$203.50
Mar. 8, 1916—LOT 25 BLK 1, Burlingame Terrace, Burlingame. John A M Boller, $45; P Grassi & Co, $28.20 vs Alfred B Elford and D Charles Scanlan .....
Mar. 8, 1916—LOT 25 BLK 1, Burlingame Terrace, Burlingame. M Stnisaft Co vs Charles Scanlan, C O Clausen and Alfred B Elford....$122
Mar. 8, 1916—LOTS 43 AND 50, Polhemus Tract, Atherton. P Olsen vs Rose E Sharp and Currie & Currie $123.75
Mar. 8, 1916—LOT 25 BLK 1, Burlingame Terrace, Burlingame. National Mill & Lumber Co vs Alfred B Elford and Charles Scanlan.$297.17
Mar. 9, 1916—LOT 25 BLK 1, Burlingame Terrace, Burlingame. White Bros vs Charles Scanlan and A B Elford.....$77.85
Mar. 9, 1916—PTN BLK 14, Western Addition to San Mateo. Crane Co vs J J Seibert Co and Knights of Columbus $223.17
Mar. 6, 1916—LOT 38 BLK NO. 10 Crocker Estate Tract Sub No. 1, Daly City. H H Smith vs Gus Blomquist $367
Feb. 28, 1916—LOTS 12 AND 13 BLK 5, Burlingame Grove, Burlingame. Inlaid Floor Co vs A L Bowley.$45.96

RELEASE OF LIENS.

SAN MATEO COUNTY.

RECORDED AMOUNT
Mar. 7, 1916—LOTS 75 AND 76 BLK 13 Belle Air Park, San Bruno. San Bruno Hardware & Electrical Co to J M Suparich.....$83.25
Feb. 24, 1916—LOT 7 BLK 14 Easton Addition to Burlingame, Burlingame. Sydney Brittain to Grace W Eaton $77.50

NOTICE OF NON-RESPONSIBILITY.

SAN MATEO COUNTY.

Mar. 4, 1916—LOTS 1 AND 2 BLK 14, Princeton-by-the-Sea. Addie J Woods as to improvements on leased property. (Frank P Brophy, tenant).

RELEASE OF BUILDING CONTRACT.

SAN MATEO COUNTY.

Lot 7 Blk 3 Sub No. 2, Burlingame Park, Burlingame. Owner, Leon Willard, San Francisco; contractor, Wheeler & Harrison. Filed Mar. 7, 1916 Dated Sept. 19, 1907. Consideration $750.

CESSATION OF LABOR.

SAN MATEO COUNTY.

Mar. 1, 1916—ATHERTON AVE near Alameda, Atherton. James G Sharp to Currie & Currie. Labor ceased.. .....Jan. 22, 1916

CANCELLATION OF BUILDING CONTRACT.

SAN MATEO COUNTY.

Mar. 9, 1916—LOT 10 BLK 37, Redwood Highlands, Redwood City. Owner, Redwood Highlands Co; contractor, Thos. Elam & Son. Cancelling contract dated March 4, 1916 and filed March 7, 1916.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Mar. 6, 1916—TIBURON, Marin Co. Ida M Boyle to Log & Timber Mfg Co.....Completed Feb. —, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING
LOTS 3, 4 BLK 2, East Fresno. All work for dwelling.
Owner.....Hart & Buwalda.
Architect ...None.
Day's work. COST, $2000

DWELLING
N ½ LOTS 1 AND 2 BLK 1, Palm Villa Tract, Fresno. Dwelling.
Owner.....Fresno Home Builders, 1231 I St., Fresno.
Architect ...None.
Contractor..A. D. Wilkins, 264 Ivy St., Fresno.
COST, $3800

BOILER ROOM
SANTA FE RESERVATION opp Santa Clara Ave., Fresno. Boiler room.
Owner.....Guggenhime & Co., 912 K St., Fresno.
Architect ...None.
Day's work. COST, $1800

DWELLING
LOT 19 BLK 1 Alta Vista Tract, Fresno. Dwelling.
Owner.....T. J. Reese, 1298 Elmhurst St., Fresno.
Architect ...None.
Day's work. COST, $1950

DWELLING
LOTS 2 AND 3 BLK 12 Park Lane Addition, Fresno. Dwelling.
Owner.....W. B. Van Vleet Jr., 2928 Inyo St., Fresno.
Architect ...None.
Contractor..C. R. Keisling.
COST, $1500

LIENS FILED.

FRESNO COUNTY.

RECORDED AMOUNT
Mar. 7, 1916—LOTS 47 TO 52 BLK 1, Van Ness Park Add'n, Fresno. Valley Hardware Co, Inc vs Maude E and Lewis H Smith.....$50

NOTICE OF NON-LIABILITY.

FRESNO COUNTY.

Mar. 4, 1916—NO. 1133 J ST., Fresno. Karl H Brix et al as to improvements on leased property.....

BUILDING CONTRACTS

SACHAMENTO COUNTY.

DWELLING
NO. 1100 MAPLE AVE., Lot 10 Clairmont Tract, Sacramento. One and one-half-story 7-rooms and bath Denison tile dwelling with concrete foundation.
Owner.....C. L. Katzenstein, 1229 P St., Sacramento.
Architect ...None.
Day's work. COST, $4500

REPAIRS
NO. 1708 K ST., on Lot 2 17th, 18th, K, L Sts., Sacramento. General repairs to frame dwelling.
Owner.....Campbell Briggs, 3315 J St., Sacramento.
Architect ...None.
Day's work. COST, $1500

ALTERATIONS
LOT 3 J, K, 21st and 22nd Sts., Sacramento. Remodel two-story 7-room and bath dwelling.
Owner.....Mabel A. Tockart et al, 2122 J St., Sacramento.
Architect ...None.
Contractor..J. L. Morten, 821 21st St., Sacramento.
COST, $950

ALTERATIONS
E ½ LOT 2, G, H, 11th and 12th Sts., Sacramento. Remodel first story and make 1 flat 3-rooms and bath and one four-rooms and bath.
Owner.....Joseph Gerig, 1112 G St., Sacramento.
Architect ...None.
Contractor..F. A. Holdener, 522½ M St., Sacramento.
COST, $700

ALTERATIONS
ON W ½ OF E ½ OF S ½ LOT 8, J, K, 5th and ..th Sts., Sacramento. Remodel store front and general repairs to one-story brick store.
Owner.....Joseph Carissimi et al, 505 K St., Sacramento.
Architect ...None.
Contractor..Chas. A. Vanina, 2022 M St. Sacramento.
COST, $490

ALTERATIONS
NO. 2910 J ST., on W ½ Lot 2 J, K, 29th and 30th Sts., Sacramento. Place concrete floor in one-story frame storage shed.
Owner.....Chas. D. Davis, 920 27th St., Sacramento.
Architect ...None.
Contractor..J. F. Dehn, 28th and J Sts., Sacramento.
COST, $400

ALTERATIONS
NO. 140 O ST., on W ½ Lot 7 N, O, 14th and 15th Sts., Sacramento. Remodel and repair private garage.
Owner.....C. C. Robertson, 1025 8th St., Sacramento.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
COST, $300

FRAME FLATS
UPPER STOCKTON near Vine on Lot 14, H. J. Goethe Tract No. 77, Sacramento. Two-story frame (2) stores and (2) flats with concrete foundation.
Owner.....Chas. Valine, Rio Vista, Cal
Architect ...None.
Contractor..John A. Silva, 415 11th St., Sacramento.
COST, $5000

FRAME DWELLING
NO. 514 THIRTIETH ST., on S ¼ of Lot 4 E, F, 29th and 30th Sts., Sacramento. One-story frame dwelling with concrete foundation.
Owner.....J. S. Bachman, 2428 K St., Sacramento.
Architect ...None.
Contractor..W. J. Frazer, Mont Clair Ave., Sacramento.
COST, $2050
1st private garage on above, $150.

DWELLING
SACRAMENTO AVE S 20 feet Lot 76 and N 20 feet Lot 77, H. J. Goethe Addition, Sacramento. One-story 3-room and bath frame dwelling with concrete foundation.
Owner.....F. O. Noel, 3728 Sacramento Ave., Sacramento.
Architect ...None.
Day's work. COST, $900

ALTERATIONS
AT NO. 691 K ST., on S 70 feet of W 60 feet Lot 8, J, K, 6th and 7th Sts., Sacramento. Remove wooden awning, etc., from building.
Owner.....Cornelia Joseph Estate Co., Care Chas. P. Nathan, 2305 M St., Sacramento.
Architect ...None.
Contractor..Siller Bros., 1614 13th St., Sacramento. COST, $450

FRAME DWELLING
NO. 2535 MILLER AVE (rear) on Lot 1275 Wright & Kimbrough Tract No. 29, Sacramento. One-story 3-room and bath frame dwelling.
Owner.....G. D. Beardsler, 1018 25th St., Sacramento.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
S ½ OF N ½ LOT 8 V, W, 3rd and 4th Sts., Sacramento. Finish off three rooms in one-story frame dwelling.
Owner.....M. Santos, 2233 Third St., Sacramento.
Architect ...None.
Day's work. COST, $300

STORAGE TANK
UPPER STOCKTON ROAD TRACT of land 4.9 acres of Standard Oil Co., Sacramento. 12 garage storage tanks (150 gallons) under ground galvanized iron pipe and erect pump.
Owner.....Standard Oil Co., Upper Stockton Road near R St., Sacramento.
Architect .. None.
Day's work. COST, $300

REMODEL STORE
NO. 1012 TENTH ST., on ptn Lot 4, J, K, 9th and 10th Sts., Sacramento. Remodel store front and place plate glass in three-story brick building.
Owner.....Marie Bellmer et al, 2017 I St., Sacramento.
Architect ...None.
Contractor..Thielbahr & Bender, North Sacramento. COST, $300

FRAME DWELLING
NO. 2211 TWENTY-THIRD ST., on N ½ of S ½ Lot 1, V, W, 23rd and 24th Sts., Sacramento. One-story 5-room and bath frame dwelling with concrete foundation.
Owner.....Geo. W. Artz, 1214 16th St., Sacramento.
Architect ...None.
Contractor..W. P. Cippa, 314 21st St., Sacramento.
COST, $2590

BRICK ADDITION
NO. 2620 THIRTY-FOURTH ST., on Lot 9 Blk 21, South Sacramento. One-story brick addition to present building.
Owner.....H. Slater, 2616 34th St., Sacramento.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
NO. 508 K ST., on E 60 feet Lot 2 K, L, 5th and 6th Sts., Sacramento. Move partition over and make office on 1st floor.
Owner.....Folsom Investment Co.
Lessee.....A. L. Trow.
Architect ...None.
Contractor..W. M. Kennedy 3330 Orange Ave., Sacramento.
COST, $300

ALTERATIONS
S ½ OF N ½ OF W 72 feet Lot 8 K, L, 3rd and 4th Sts., Sacramento. Place 4 bath tubs and partitions in two-story and basement brick stores.
Owner.....J. F. & S. S. Gladney, Care J. C. Carly Co. T Takamoto, Lessee, 1123 3rd St., Sacramento.
Architect ...None.
Contractor..I. Inakara, 8½ Jap Alley, Sacramento. COST, $300

FRAME RESIDENCE
NO. 2216 W ST., on W ½ of Lot 3 Blk W, X, 22nd and 23rd Sts., Sacramento. Onestory 5-room frame residence.
Owner.....A. A. Chrisler, 16th and Q Sts., Sacramento.
Architect ...None.
Contractor..Barton & Hite, 1006½ 9th St., Sacramento.
COST, $3500
One-story private garage on same, $200

METAL ROOF SIGN
NO. 700 J ST., on N 90 feet Lot 1, J, K, 7th and 8th Sts., Sacramento. Erect metal constructed roof sign on office building.
Owner.....Capital National Bank, 516 J St., Sacramento.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th St., San Francisco.
COST, $1600

ICE REFRIGERATOR
TWENTY-SEVENTH AND R STS., on Lot 1 R, S, 27th and 28th Sts., Sacramento. Install ice refrigerator, 10 ton capacity.
Owner.....N. D. Hulse, 1815 27th St., Sacramento.
Architect ...None.
Day's work. COST, $400

ADDITION
LOT 170 CURTIS OAKS, Sacramento. Sleeping porch addition at rear of one-story frame dwelling.
Owner.....E. H. Bassette, 2423 3rd St., Sacramento.
Architect . .None.
Day's work. COST, $300

BUILDING CONTRACTS.

SAN JOAQUIN COUNTY.

BRICK HOTEL
LOT 15 BLK 8 W Center St., Stockton. All work for three-story and basement brick workingmen's hotel and two Botchie game courts in rear. No heating, all rooms piped for basins only.
Owner.....Giovani Gattorna, Commerce St., bet. Market and Washington, Stockton.
Architect ...Ralph P. Morrell, I. O. O. F. Bldg., Stockton.
Contractor..McPhee & Totton 5 N-California St., Stockton.
Filed Mar. 6, '16. Dated Mar. 6, '16.
When 2nd story joists are in place $1500.00
When 3rd story joists are in place 1500.00
Roofing on and brick work completed 1639.50
Rough plumbing tested and inspected 2000.00
Electric wiring completed and all plastering on and Botchie Building completed 2000.00
All wood inside and outside wood trim completed and hardware is fitted 2000.00
Building completed and accepted by Architect and all bills are presented 3546.50
TOTAL COST, $16,476.00
Bond, $——. Sureties, W. R. Ramsey and I. Stein. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BRICK HOTEL
LOT 15 BLK 8 W of Center, Stockton. Excavating and concrete work for three-story and basement brick hotel.
Owner.....Giovani Gattorno, S Commerce St., bet Market and Washington, Stockton.
Architect ...Ralph P. Morrell, I. O. O. F. Bldg., Stockton.
Contractor..Stockton Terrazzo Co.
Filed Mar. 8, '16. Dated Mar. 7, '16.
Concrete walls in place.....$1000
All floors finished..... 715
Usual 35 days..... 575
TOTAL COST, $2290
Bond, $1145. Sureties, M. Lantiru and D. Morotti. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

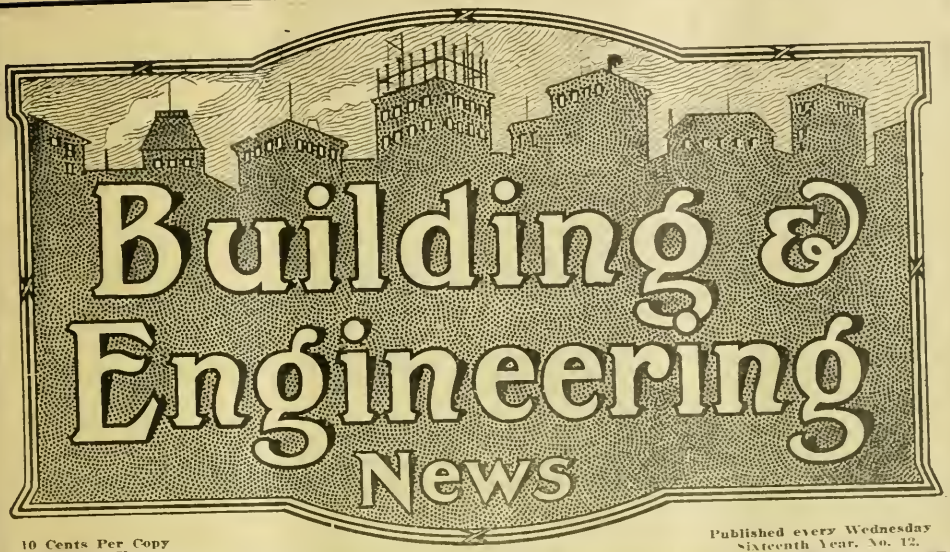
SACRAMENTO COUNTY.

RECORDED ACCEPTED
Mar. 3, 1916—LOT 11 BLK 1 Sub 9 of North Sacramento, Henry R and Mabel L Brown to Harrison & Berg .....Completed ——
Mar. 7, 1916—50 ACRES being ptn of S L S 323 on Andrus Island in Sec 9 T 4 R 4, Sacramento, Horace J and Mae C Brock to W L Graff.. .....March 2, 1916

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Mar. 6, 1916—LOT 14 Dye Chinatown, Walnut Grove. Amy Brown, Sperry W, Milo E and Corodon Dye as to improvements on leased property.



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BUILDING OPERATIONS FOR FEBRUARY.

Building operations throughout the country, as reflected by the summaries of permits issued in the principal cities, made an altogether satisfactory showing for the month of February. The figures given below are compiled by the "American Contractor" of Chicago, The California Development Board and the "Builder." Building operations in 88 of the largest cities in the country totaled $54,349,072 for February, 1916, against $45,862,835 for the same month last year. Of the 88 cities given below 62 show gains. Detailed figures are as follows:

City	Feb., 1916.	Feb., 1915.
Akron	$ 135,575	$ 110,260
Alameda	72,121	14,413
Albany	169,230	277,115
Atlanta	265,599	471,961
Bakersfield	19,140	9,320
Baltimore	1,438,263	977,365
Berkeley	210,450	80,100
Birmingham ...	150,965	136,710
Boston	4,591,000	3,587,000
Bridgeport	648,908	241,950
Buffalo	684,000	307,000
Cedar Rapids....	38,000	133,000
Chicago	7,354,200	4,701,500
Cincinnati	596,120	499,645
Cleveland	1,552,725	1,733,925
Columbus	314,225	153,350
Dallas	216,212	324,185
Dayton	99,749	14,453
Denver	472,380	165,070
Des Moines.....	67,000	65,145
Detroit	2,186,360	1,307,215
Duluth	172,172	89,647
East Orange....	31,325	182,607
Evansville	51,100	85,435
Fort Wayne.....	74,950	80,100
Fresno	55,152	78,063
Grand Rapids...	114,740	104,300
Harrisburg	21,460	38,425
Hartford	387,820	151,600
Indianapolis	406,531	307,750
Kansas City....	464,760	896,330
Lincoln	57,800	31,560
Little Rock.....	67,061	37,095
Long Beach.....	80,417	314,895
Los Angeles.....	976,378	560,697
Louisville	911,330	319,520
Manchester	125,055	40,065
Memphis	205,565	101,735
Milwaukee	757,990	409,056
Minneapolis	823,960	811,495
Montclair	26,725	65,926
Nashville	241,306	65,705
Newark	216,838	955,391
New Haven.....	352,040	674,855
New Orleans....	116,889	97,323
New York City..	10,344,482	12,558,981
Manhattan ...	3,452,130	5,899,930
Bronx	1,649,457	2,657,934
Brooklyn	3,600,693	2,267,014
Borough of—		
Queens	1,545,797	1,582,724
Richmond	96,805	151,379
Oakland	338,336	328,934
Oklahoma	62,580	42,780
Omaha	815,692	84,100
Pasadena	96,576	36,531
Paterson	87,527	57,217
Peoria	200,250	51,750
Philadelphia	2,437,750	2,574,930
Pittsburgh	1,321,686	608,644
Portland	406,615	311,740
Richmond, Cal...	24,213	30,220
Richmond	372,907	259,184
Rochester	691,433	382,607
Stockton	62,335	34,300
St. Joseph.....	82,190	18,751
St. Louis.....	1,180,334	701,062
St. Paul.....	426,694	797,054
Sacramento	78,014	123,307
San Antonio.....	84,110	113,595
San Diego	164,890	95,990
San Jose.....	56,905	27,418
San Francisco...	1,722,678	1,637,148
Santa Rosa.....	8,758	4,550
Schenectady	21,476	3,825
Scranton	118,817	43,545
Seattle	598,615	353,880
Shreveport	45,046	41,576
Sioux City.....	569,400	36,150
South Bend.....	177,085	17,455
Spokane	202,660	21,725
Springfield, Ill...	137,300	65,900
Springfiled, Mass	470,185	692,795
Syracuse	115,577	160,383
Tacoma	63,801	56,751
Toledo	700,781	454,607
Topeka	10,575	37,779
Troy	14,235	74,445
Utica, N. Y.....	226,175	7,975
Washington	1,129,300	890,833
Wichita	81,550	64,825
Wilkes-Barre ...	36,748	70,125
Worcester	174,473	104,220
Total	$54,349,072	$45,862,835

COURSE FOR MODERN INTERIOR DECORATING.

K. E. M. Weber, Architect and Decorator, has established a course for Modern Interior Decorating at the California School of Arts and Crafts, 2119 Allston Way, Berkeley.

The course takes up General Proportions, Lighting of Room, Color Schemes, etc. Send for complete details to above address.

STEPS TAKEN FOR DISTRICT ORGANIZATION.

MADERA, Cal.—A petition for the formation of an irrigation district is to be presented to the Board of Supervisors on April 3rd, this proposed district to comprise some twenty-seven sections or about 17,000 acres. It is proposed to secure irrigation water by pumping from wells near the San Joaquin river, the pumps to be operated by electric power.

The district sought is entirely separate from that advocated by the Madera Irrigation Bureau.

The proposed district is in the Deep Well School district, the center of the tract being about fifteen miles southeasterly from Madera.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $12,000. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner, J. Goldberg. Location, Masonic avenue south of Haight street. Will contain six modern three-room apartments with wall beds and private baths. Interior finish pine and redwood. Some hardwood floors. Hot water system and gas steam radiators. Bath rooms composition floors. Exterior covered with cement plaster on metal lath. Plans complete and figures being taken.

SAN FRANCISCO—Apartment houses 2 and 3 story and base, reinforced concrete, $150,000. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Marine View Terrace Apartments Co. Location, southeast corner of Green and Taylor streets. The project, revived after more than a year, will be started at once. The apartments will range from 7 to 12 rooms and will be finished to suit the tenants, and will be leased for long-term periods. Hardwood floors will be used throughout. A central heating system and hot water supply will be installed. Exteriors will be faced with cement plaster. Further mention will be made when bids are called.

SAN FRANCISCO—Apartment house, 4 story and base, reinforced concrete. Cost not stated. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner's name not given. Location, west Leavenworth north of Bush, covering an area of 34 by 87 feet. Will contain 18 apartments of two rooms and bath each. Interior finish pine and hardwood veneer. Hardwood floors. Steam heat and oil burning equipment. Hot water system and dumb waiters. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $10,000. Architect, Earl B. Scott, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, corner of 30th and Church streets. Will contain sir apartments ot three rooms and bath. Interior finish pine. Some hardwood floors. Composition floors in bath rooms. Gas steam raidiators. Exterior covered with rustic. Plans complete and figures to be called for at once.

SAN JOSE, SANTA CLARA CO., CAL.—Apartment house, 2 story and base, reinforced concrete, $20,000. Architect, Charles S. McKenzie, Bank of San Jose Bldg., San Jose. Owners, Southeimer & Haskins. Location, west 5th between Santa Clara and San Fernando streets. Will contain 16 apartments of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms composition floors. Marble and tile wainscot. Wall beds. Exterior faced with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, reinforced concrete, $27,000. Architect, none. Owner, John Dempniak, 1658 Washington street, S. F. Location, east Hyde north of Sutter. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors and tile wainscot. Automatic elevator. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete, grading under way and balance of work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architect, Earl B. Scott, Humbolôt Bank Bldg., S. F. Owner's name withheld. Location, 16th and Capp streets. Will contain two small stores and eight apartments of three rooms each. Interior finish pine. Gas steam radiators. Composition floors in bath rooms. Wall beds. Patent store fronts. Exterior covered with rustic and shiplap. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $65,000. Architect, none. Owner, John Dempniak, 1658 Washington street, S. F. Location, Mason near California, covering an area of 50 by 100 feet. Will contain 22 suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water supply and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot in lobby. Exterior faced with pressed brick and cement plaster. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $14,000. Architect, none. Owner, M. Dempniak, 728 Page street, S. F. Location, west Leavenworth north of Vallejo. Will contain a number of two, three and four room apartments. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work being done by Day Labor.

Contracts Awarded

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $10,000. Architect, none. Owners, Enterprise Hall Association. Contractor, R. H. Cooley, First Trust Bldg., Oakland. Contract price, $10,000. Contractor is taking subfigures.

BONDS

FRESNO, FRESNO CO., CAL.—Resolutions were adopted by the California Development Board at a convention held in Fresno, urging a bond issue for $15,000,000 for the completion of the State highway system. The highways are incomplete and the former $18,000,000 issue will be exhausted before the end of this year.

RICHMOND, CONTRA COSTA CO., CAL.—Trustees of the Richmond Union High School District are considering a bond election to provide funds for a new school building.

VISALIA, TULARE CO., CAL.—To build the Mt. Whitney road, the Tulare County Supervisors have co-operated with the officials of Kern County. The proposed road will cost about $300,000.

LA CANADA, LOS ANGELES CO., CAL.—April 13th is the date set to vote bonds of $25,000 for a new school for the La Canada School District.

LOS ANGELES, CAL.—The Panama-Pacific Warehouse Co., W. C. Cook, representative, Trust and Savings Bldg., L. A., has been authorized by the State Railroad Commission to issue bonds of $450,000 and stock to the amount of $350,000. The company proposes to erect a warehouse of reinforced concrete construction on Alameda street in Los Angeles. Plans for the structure have already been prepared by Los Angeles engineers.

SAN DIEGO, SAN DIEGO CO., CAL.—A delegation of physicians has asked the Board of Supervisors to call a bond election for $100,000, the proceeds of the sale to finance the erection of wards on the county hospital grounds for the insane and tuberculosis patients.

The San Diego County Supervisors have instructed the District Attorney to prepare an ordinance calling an election to vote bonds in the sum of $2,000,000 for reconstructing roads, bridges and paving throughout the county. The County Surveyor has been instructed to prepare estimates.

MORAGA, CONTRA COSTA CO., CAL.—An election has been called for April 22nd, when the question of voting and selling bonds of $12,000 for the erection of a school building for the Willow Spring School District will be decided.

SAN JOSE, SANTA CLARA CO., CAL.—April 28th is the date set by the Board of Education to decide the question of issuing bonds of $150,000 for school improvements.

SANTA ANA, ORANGE CO., CAL.—Bonds of $100,000 will be voted upon here on April 18th. Of this amount $60,000 will be used for a high school auditorium and the remaining $40,000 for the erection of grammar schools.

LONG BEACH, LOS ANGELES CO., CAL.—An election will be held on April 18th to vote bonds of $360,000 for school purposes.

CARSON CITY, NEV. — Massachusetts State bonds, which have been owned by Nevada since Governor Sparks' time, have been bought by E. H. Rollins & Son of San Francisco. The price received by the State was $395,172.40, or at the rate of $92.33.

OROVILLE, BUTTE CO., CAL.—The Oroville Chamber of Commerce has placed itself on record favoring the proposed $15,000,000 State highway bond issue. The chamber reports that

the State Highway Commission has pledged itself to build a lateral from Oroville to Quincy in the event the bonds carry.

SACRAMENTO, CAL.—State Treasurer Richardson has sold the last of the $18,000,000 State highway bond issue. The State Board of Control purchased the bonds amounting to $1,500,000.

CHINO, SAN BERNARDINO CO., CAL.—Bonds of $128,000 were voted here last week for civic improvements. By a vote of 468 to 91 it was decided to set aside an issue of $73,000 for improving streets, and by a vote of 435 to 123 it was decided to use $55,000 to install a sewage system.

ROSEBURG, ORE.—Bonds of $75,000 were voted recently for a new school building. Tentative sketches for the proposed structures have already been submitted to the school board.

SANTA ANA, ORANGE CO., CAL.—Approximately twelve miles of road work is needed in the vicinity of Santa Ana, and will probably be included in the improvements to be made under the proposed bond issue. The roads are:

From the city limits on Grand avenue north and east past the cemetery; 2 miles.

On West Seventeenth street west and north; 2.5 miles.

Road connecting Main street, Delhi, west with the Talbert road; 2 miles.

From city limits on Hannah street north to meet State highway; 1.5 miles.

From city limits on East Fourth to Tustin avenue, then south to East First street; .5 mile.

From A. G. Finley corner on Newport road to El Modena; 1 mile.

Ritchie street from McFadden to Glen avenue, then south to Aliso station on Newport road; 1.2 mile.

It is estimated these roads will cost on an average of $8,000 to $9,000 per mile.

It is planned to connect these paved roads entering the city with the city paved system by the construction of additional paved roads.

BRIDGES, DAMS AND HARBOR WORK

HOLLISTER, SAN BENITO CO., CAL.—Bridge painting. Cost not stated. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. Specifications prepared by County Engineer W. A. Winn for painting the Hollister-San Juan bridge were approved and bids were ordered received up to April 3rd, 10 a. m. Further information may be had from the County Clerk at Hollister.

COLUSA, COLUSA CO., CAL.—Bridge construction. Cost not stated. Engineer, County Surveyor, Colusa. Owners, Colusa County. The Colusa County Supervisors are anxious to have the joint bridge at Grimes built as soon as possible and adopted the following resolution, a copy of which has been sent to the Sutter County Supervisors:

"Resolved, That the County Surveyor shall immediately proceed in conjunction with the County Surveyor of Sutter County, in all preliminary matters pertaining to said Grimes bridge, and shall proceed with the necessary surveys and general engineering duties necessary to meet the requirement of th United States Engineer's office governing the erection of structures of this character."

It is probable that the Sutter County Supervisors will take action at their next meeting.

VENTURA, VENTURA CO., CAL.—Bridges, steel and reinforced concrete. Cost not stated Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Supervisors have adopted supplementary specifications for the La Crosse and Casitas bridges, the county to supply the steel. Bids were advertised for, to be opened on April 6th at 2 p. m. One of these bridges, that at La Cosse, is intended as a part of the county highway, that into the Ojai Valley, and will span the San Antonio Creek. The Casitas bridge is that over the Ventura River and leading into Foster Park. Plans may be had from the County Clerk at Ventura.

SAN FRANCISCO—Pier repair, $28,950. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids were opened at the Thursday meeting of the State Board of Harbor Commissioners for additions and repairs to be made to Pier No. 44. S. B. Peterson presented the low bid at $28,950. His bid was taken under advisement for one week. Following is a list of the bids received: Tibbitts-Pacific Co., $41,347.20; San Francisco Bridge Co., $37,436; Thomson Bridge Co., $40,765; Healy-Tibbitts Construction Co., $38,154; S. B. Peterson, $28,950; Hyde, Harjes & Co., $38,166.50. The next work to be advertised for by the Harbor Commission will be for repairs and additions to Pier No. 38. This work will consist of constructing a railroad track on the outside of the pier shed and connecting with the Belt Line Railroad.

SAN FRANCISCO — Wharf, reinforced concrete, $80,000. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received until March 30th at 11 a. m. for constructing a reinforced concrete wharf, 90 by 150 feet, with approach 32 by 216 feet. Eighteen-inch concrete piles, 6-inch concrete slab, deep reinforced concrete beams, Arthur Koppel & Co. railroad equipment, asphalt floor.

Contracts Awarded.

EUREKA, HUMBOLDT CO., CAL.—Bridge approach, steel, $2,182. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contractor, Thomas Engelhart, 639 16th street, Eureka. Contract price, $2,182. Contract covers the approach to the highway bridge at Dyerville.

REDWOOD CITY, SAN MATEO CO., CAL.—Trestle construction, $2,562.44. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Contractor, R. D. Savage. Contract price, $2,562.44.

CHURCHES

SEATTLE, WASH. — Mausoleum, 1 and 2 story and base, reinforced concrete, $150,000. Architect, W. Marbury Somerville, White Bldg., Seattle. Owners, Northwestern Mausoleum Co., Stuart Bldg., Seattle. Will be of fireproof construction and will contain 2,000 crypts. Interior finish marble and plaster. Ornamental iron and bronze. Art glass. Exterior faced with granite and cement plaster. Plans being prepared.

Contracts Awarded

SPOKANE, WASH. — Mausoleum, 1 story, reinforced concrete, $250,000. Architect, W. Marbury Somerville, White Bldg., Seattle. Owners, Northwestern Mausoleum Co. Contractor, F. E. Peterson, Spokane. Contract price, $250,000.

COURT HOUSES.

SAN RAFAEL, MARIN CO., CAL.—Court house lighting fixtures. Cost not stated. Architect, none. Owners, Marin County. Bids will be received up to April 4th for furnishing and installing lighting fixtures in the County Court House. Plans can be secured from the County Clerk.

FACTORIES AND WAREHOUSES

SAN FRANCISCO — Warehouse, 3 story and base, brick, $15,000. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner, Joseph Lerer. Location, nothwest corner of 11th and Harrison streets, covering an area of 100 by 80 feet. Extra heavy construction. Cement first floor. No interior trim. Exterior faced with stock brick. Plans complete and ready for figures.

OAKLAND, CAL.—Factory plant, 1, 2 and 3 story, reinforced concrete. Cost not stated. Architect's name not given. Owners, Chevrolet Motor Co. Eli White of Detoit, Mich., is in charge of the construction of the big factory plant now being erected on Foothill Boulevard in Oakland for the Chevrolet Motor Co. Excavation and concrete work are nod under way. Mr. White is purchasing all materials and can be found only at the site.

PORTLAND, ORE. — Refrigeration building, 7 story and base, reinforced concrete, $200,000. Engineer, Engineering Dept. Union Meat Co., Chicago, Ill. Owners, Union Meat Co. Location in the stockyards. Will cover an area of 74 by 122 feet. Construction fireproof. No interior finish. Special refrigerating machinery not included. Exterior faced with cement plaster. Plans being prepared. Further mention to be made of the work.

SAN FRANCISCO — Warehouse, 3 story and base, steel and brick, $54,000. Architect, Charles Paff, 343 Sansome street, S. F. Owner, E. H. Howard. Location, south Mission east of Fremont, covering an area of 68 feet 9 inches by 137½ feet. Steel frame and brick exterior walls. Waterproof basement. First floor arranged for store and upper floors for warehouse. Interior finish pine. Elevator service and steam heat. Exterior faced with pressed brick. Patent store front. Plans being prepared.

SAN FRANCISCO—Dyeing works, 2 story, reinforced concrete. Cost not stated. Architect, August Headman, New Call Bldg. Owner, J. Allec. Location, 2164 Folsom street. Fireproof construction. Interior finish pine. Cement floor. Special machinery and gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

FLATS

SAN FRANCISCO—Flats and store, 2 story and base, frame, $2,000. Architect, none. Owner, A. Angelos, 101 Lakeview avenue, S. F. Location,

southwest Lakeview and Caine. Will contain one store and a modern five-room flat. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,000. Architect, none. Owner, Mary A. Donovan, 470 Sanchez street, S. F. Location, north 17th east of Prosper, covering an area of 25 by 59 feet. Will contain two flats of five and six rooms. Interior finish pine, redwood and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $3,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, G. Torre. Location, southeast corner of Union and Taylor streets. Will contain three flats of five and six rooms. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire places. Tile and brick mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,500. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, Green near Montgomery. Will contain two flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Flats, 2 story and base, frame, $3,000. Architect, none. Owner, J. E. Askew, 2206 Roosevelt avenue, Berkeley. Location, east Roosevelt avenue south of Allston. Will contain nine rooms, two baths and sleeping porch. Interiors finished in pine and white enamel. Hardwood floors. Open fire places and tile mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with cement plaster. Pans complete and work to be done by Day Labor.

OAKLAND, CAL.—Flats, 2 story and base, frame, $2,500. Architect, none. Owner, W. J. Myers, 3110 High street, Oakland. Location, northeast corner of High and Virginia avenue. Will contain two flats of four rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Lahor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,500. Architect, none. Owner, E. Fabish, 192 Valley street, S. F. Location, southeast Clement and 31st avenue, covering an area of 32½ by 45 feet. Will contain two flats of five rooms each. Basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,000. Architect, none. Owner, R. H. Maddock. Location, south Boyd east of Chesley, covering an area of 33 by 33 feet. Will contain two flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

SAN FRANCISCO—Garage, 1 story and base, reinforced concrete, $16,000. Architect, P. Righetti, Phelan Bldg., S. F. Owners, California Baking Co. Location, Ellis and Pierce streets. Will contain accomodations for 40 machines, machine shop and wash room. Interior finish rough. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with cement plaster. Plans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

Grand Junction, Colo., Post Office.

The Dieter & Wetzel Construction Co., Wichita, Kans., the general contractor for the construction of the U. S. post office at Grand Junction, Colo., will use conduits manufactured by the National Enameling & Mfg. Co. in the prosecution of the work.

Naval Projectile Plant.

Rear Admiral Joseph Strauss, chief of ordnance of the Navy, has prepared an estimate of the cost of, and has recommended that Congress be asked to appropriate sufficient money to erect, a government factory for the manufacture of projectiles. This is due to the fact that only one company has been found willing to undertake to manufacture proectiles conforming to the bureau requirements as well as on account of "the growing deficiency of the 14-inch armor piercing projectiles." Rear Admiral Strauss deems that the specifications are not excessive and is unwilling to recommend any modification of them. The Navy Department is therefore in the position of having funds without being able to purchase its requirements. He says it has been clearly demonstrated that the standards demanded by the bureau are possible ones, and yet it is quite evident that the manufacturers are reluctant to undertake the manufacture when these high standards are demanded. The government owns a tract of land in the District of Columbia, just opposite Alexandria, Va., which is sufficient in area for this factory and at the same time is convenient to the navy yard, Washington, where the great guns for the Navy are manufactured, and to the proving ground, Indian Head, where al ordnance material is tested. At the same time, this location would give a site close to the Navy Department and could, therefore be under the close surveillance of the bureau of ordnance. The estimates submitted have been prepared by representatives of the bureau of ordnance from the best information that could be obtained, and are thought to be reasonably accurate. It is thought that a projectile factory would be able to manufacture projectiles which would meet the specifications for armor-piercing proectiles, as during the past year a few armor-piercing proectiles have been manufactured at the navy yard, Washington, with promising results. The estimate is based on the assumption that the plant is to be erected on the tract of land now occupied by the Bellevue Magazine, and of a capacity for the manufacture of 10,000 14-inch armor-piercing projectiles a year; the steel, base plugs, wind shields, caps, and all parts of the projectile to be manufactured within the plant, except the rotating bands, which will be purchased from the manufacturers of copper material. In addition, it is expected to manufacture and finish 20,000 5-inch common projectiles and 20,000 4-inch common projectiles in this plant, the bar stock being purchased from one of the many mills in this country after advertisement and competition. For the annual output of 10,000 14-inch armor-piercing projectiles 11,000 ingots would have to be cast, and as the weight of a single ingot is about 2,850 pounds approximately 13,996 tons of steel would have to be purchased for the manufacture of these projectiles. In addition a certain number of heats would have to be run, which would be utilized for the manufacture of base plugs, caps, wind shields, etc. Allowing 52 Sundays, 6 days for half holidays, and 6 regular holidays, there will be 300 working days in the year in which the above output of steel would have to be delivered. Accordingly, it is estimated that 50 tons of steel would be required each day. Therefore, it is considered that one 30-ton and one 20-ton open hearth furnaces would be sufficient in output to meet this requirement, and in addition it would be possible to shut these furnaces down for a sufficient time each year to permit of their proper upkeep, maintenance, and repair. The total estimated cost is $1,411,222.

Cape St. Elias, Alaska, Metalwork.

The following bids were received by the light house inspector, 16th district, Ketchikan, Alaska, for sheet metalwork for the fog signal building, dwelling, etc., at Cape St. Elias light station, Alaska:

Item 1, for signal building; 2, for dwelling, etc.; 3, alternate for galvanized ingot iron under Item 2.

Standard Sheet Metal Works, Seattle, Wash., item 1, $355; 2, $625; 3, $325; 35 days.

J. C. Boyer, Portland, Ore., item 1, $332; 2, $589; 3, $249; 10 days; accepted.

City Cornice Works, Seattle, Wash., item 1, $434.80; 2, $717.10; 3, $368.80; 90 days.

Moon Roofing and Sheet Metal Co., seattle Wash., item 1, $443.60, 2, $639.-20; 3, $361.90; 40 days.

Denver, Colo., Painting, Etc.

The following bids were received by the custidian, U. S. mint, Denver, Colo., for painting, etc., in the above building:

Bancroft Decorating Co., Denver, Colo., $798.

The B. L. James Manufacturing Co., Denver, Colo., $443.50.

Thomas H. Miller, Denver, Colo., $393.

The Reitze Wall Paper and Paint Co., Denver, Colo., $346.

Richards & Speier, Denver, Colo., $304.

William Sherman, Denver, Colo., $286.

D. J. Inman, Danville, Ill., $249.

Downy Bros. Wall Paper Co., Denver, Colo., $210.

The Denver Dry Goods Co., Denver, Colo., $210.

George Murphy, Denver, Colo., $189.

Leadville, Colo., Repairs.

The contract for repairs to main entrance, etc., of the U. S. post office at Leadville, Colo., has been awarded to the Potter's Lumber Co., East Liverpool, Ohio, at $3,370; time 90 days.

U. S. Reclamation Service, Pumps.

The following bids were received at the U. S. Reclamation Service, Washington, D. C., for furnishing two pressure pumps, each of 30 gallons capacity per minute:

Kemp Machinery Co., Baltimore, Md., $998 ea; 35 days.

International Steam Pump Co., 115 Broadway, New York City, $686 ea; 65 days.

Chattard & Norris, Baltimore, Md., $876 ea; 45 working days.

Demming Co., Salem, Ohio, $735 ea; 60 days.

Rumsey Pump Co., Seneca Falls, N. Y., $680 ea; 3 weeks.

National Transit Pump & Machine Co., Washington, D. C., $900 ea; 8 weeks.

Delay in Government Armor Plant.

Senator Tillman, as chairman of the Senate naval committee and author and ardent advocate of the project to establish a government plant for the manufacture of armor for ships of war, is encountering considerable difficulty in bringing the Senate to his view of the importance of that measure. His efforts to have his bill considered have been frustrated repeatedly, and he has manifested an impatience which is justified on the suspicion that the postponement of senatorial action is a form of opposition on the part of those who did not care to more directly attack the measure or who did not wish to bring the bill to the test of a vote. In the meantime, the friends of the measure have approached members of the House naval committee with the suggestion that the Tillman bill be taken up by that body and reported with a view to having it well on its way in anticipation of senatorial action later. The answer to this, of course, is that the bill is of Senate origin and might very properly be ignored until it reaches the House with the Senate indorsement of it. There is no special or active opposition to it apparently in either Senate or House, although it will invite more or less attack, notably on the part of Senator Penrose, of Pennsylvania, whose attitude toward the bill in the Senate committee gave evidence of lack of sympathy with the project. He is fortified with statistics and arguments that are intended to convince the Senate that the bill proposes an extravagance upon which the government should not embark, as well as being a piece of legislative injustice to the makers of armor in this country, who have built up and maintained costly plants for the production of the material with no excessive demand upon the Navy Department in the way of contract prices. If the Senate passes the bill, it is likely to go through the House. The armor-plate makers themselves, despite an impression to the contrary, are described as not being particularly disturbed over the project of having the government plant as a rival. Most of those concerns regard their armor-plate branches as constituting a very small fraction of their interests; in one instance, the armor-plate department represents something less than one per cent of the commercial product of the firm.

New Designs for Warships.

The naval authorities are at work on tentative plans for new battleships and battle-cruisers. The former are destined to carry 15-inch or 16-inch guns, probably the latter caliber, in which event there will be ten mounted in five turrets in accordance with the recommendations of the naval general board. It is considered advisable in that quarter, at least, to return to the two-gun turret; indeed, the general board has never been partial to the three-gun turret, and, of course, there are additional arguments to be offered against placing more than two of the 16-inch guns in the single turret. Rear Admiral C. J. Badger made this plain to the committee during his hearing recently and impressed the committee, which, however, is not likely to prescribe that detail in its authorization for battleships. It is realized that there is danger in imposing too many obligations or restrictions upon the Navy Department in the matter of chief characteristics, taking as an example the case of the submarines, for which a speed of 25 knots was exacted. The battle-cruisers are destined to be included in this year's building program, whether or not battleships are provided for. Rear Admiral Knight's suggestion that the battleship be omitted from this year's increase may be seized upon by some of the members to urge a postponement in the authorization of that type in order to get the benefit of demonstrations abroad expected during the next ten or twelve months in a naval engagement which has also been expected during the past twelve months. The battle-cruisers will have a displacement of about 36,000 tons and will be armed with 14-inch guns and have a speed of 35 knots, a characteristic that is considered most valuable in placing those vessels far ahead of anything of the same type in the foreign navies and, at the same time, presenting a new problem for the engineers.

WASHINGTON, D. C.—Steel towers No. 3028.—Sealed proposals will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until April 22, 1916, for the construction of two 300-foot steel towers at the radio station near Cordova, Alaska. Plans and specifications may be obtained on application to the Bureau of Yards and Docks, Washington.

FORT MASON, CAL.—Alteration to sewer system. Cost not stated. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received until March 29th at 11 a. m. for constructing alterations to the present sewer system at Fort Miley. An official proposal appears in another column of this issue.

HOSPITALS

SAN FRANCISCO—Hospital, 2 story and base, reinforced concrete, $50,000. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Location, 18th and Pennsylvania. Will contain wards, operating rooms, nurses' quarters and an emergency department. Interior finish white enamel and tile. Tile floor. Steam heat and hot water supply. Oil burning system. Hospital plumbing. Exterior faced with cement plaster. Plans being prepared.

SAN RAFAEL, MARIN CO., CAL.—Hospital cottage, 1 story, frame and concrete. Cost not stated. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Designed for a nurses' home. Interior finish pine and redwood. Some hardwood floors. Furnace heat and open fire place. Mantel tile and brick. Exterior faced with cement plaster. Plans being prepared.

NAPA, NAPA CO., CAL.—Hospital cottages, 2, 1 story and base, frame and concrete. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be opened on April 17th for the construction of two hospital cottages at the State Hospital at Napa. One building will be for the females and the other for males. Interior finish pine and redwood. Central heating systems. Exteriors covered with rustic and shingles. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

HOTELS

SAN FRANCISCO—Hotel and stores, 3 story and base. Class C construction. Cost not stated. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name withheld. Location, corner of Polk and Post streets. Will contain five stores and a total of 30 hotel rooms. Interior finish pine and elm. Patent store fronts. Private and public baths. Steam heat and hot water supply. Bath rooms tile. Exterior faced with pressed brick and cement plaster. Plans being prepared.

SAN FRANCISCO—Hotel alteration, frame, $5,000. Architect, Paul F. DeMartini, 2122 Powell street, S. F. Owner, A. P. Giannini Co. Location, southwest Mason and Water streets. Work will consist of excavating, underpinning, cement work and cement floors, interior mill work, painting, plumbing, electric work and plastering. Plans are complete and figures being taken.

SUISUN, SOLANO CO., CAL.—Hotel addition, 2 story, frame, $5,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Suisun Hotel. An addition of one story will be made and the present building altered. Included in the work will be carpentry work, plastering, painting, plumbing and electric work. Plans are being prepared.

IRRIGATION PROJECTS

OROVILLE, BUTTE CO., CAL.—Reclamation work. Cost not stated. Engineer, E. A. MacKusick, Oroville. Owners, Reclamation District No. 833. The Trustees of Reclamation District 833 have filed with the Supervisors the report of the district engineer, E. A. MacKusick, including plans, specifications and estimates of the district. The report shows the district includes 38,137.34 acres. A system is being planned to take care of the maximum run-off of the district, determined by the rainfall records, and it is proposed to construct 129.6 miles of canals. The main ditches will be 10 feet wide at the bottom. Three appraisers have been appointed by the Board to estimate the comparative benefits of the drainage to the various lands included. They are J. M. Williams, Arthur Sweetser and

H. A. Woodworth. Further mention will be made of this work.

MODESTO, STANISLAUS CO., CAL.—Irrigation dam. Cost not stated. Engineer, Chief Engineer Hermann, Modesto. Owners, Modesto Irrigation District. Peart Bros., the contractors on the construction of Dam No. 1 of the Modesto Irrigation District's Dallas reservoir, have thrown up their contract. What action will be taken by the district is not known at this time.

POST OFFICES.

KALISPELL, MONT.—Post office, 2 story and base, brick, steel and stone, $80,120. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Bids opened by the supervising architect for the construction of the U. S. post office at Kalispell, Mont., show Welsh Bros., & Hannaman of Oakland, Cal., low bidders at $80,120, using limestone, and $79,320 using sandstone.

POWER IMPROVEMENTS

SAN FRANCISCO—Water system extension. Cost not stated. Engineer, City Engineer, City Hall, S. F. Owners, City of San Francisco. The San Francisco Board of Public Works has approved plans and specifications for the extension of the Municipal Water Works and the Secretary has been directed to advertise for bids.

CLOVERDALE, SONOMA CO., CAL.—Water system construction. Cost not stated. Engineer, Town Engineer, Cloverdale. Owners, Town of Cloverdale. Bids will be opened on March 25th at 12 noon for furnishing and laying 1868 feet of water pipe as follows: 600 feet of 12-inch; 600 feet of 10-inch and 668 feet of 8-inch, with the necessary fittings and vales. The pipe and fittings will be furnished on board cars at the railroad, and the contractor will transport the same to place of use. The pipe to be trench laid in as straight a line as possible, and at no point less than two feet below the surface of the ground. The contractor will excavate the trench and fill same after the pipe is laid. Also, for furnishing f. o. b., Cloverdale, 1900 feet of hot asphaltum-dipped, lap-welded pipe with the necessary couplings attached: 600 feet of 12-inch, weight 31 pounds per foot; 600 feet of 10-inch, weight 21 pounds per foot; 700 feet of 8-inch, weight 15½ pounds per foot. Also, 1 10-inch gate valve, tested to 200 pounds; 1 6-inch gate valve, tested to 200 pounds; 1 10x4 inch tee; 2 8x6 inch tees; 1 8x8 inch cross; 1 reducer coupling, 12 to 10 inches; 1 reducer coupling, 10 to 8 inches; 3 8 to 6 inch bushings; 3 6-inch plugs. All pipe and fittings must be of first class material in perfect condition.

RICHMOND, CONTRA COSTA CO., CAL.—Water system. Cost as follows. Engineer, J. H. Dockweiler, Richmond. Owners, City of Richmond. Directors of the Richmond Municipal Water Commission are considering three immense water supply projects for this city, following an exhaustive report submitted to the commission on all three projects by J. H. Dockweiler, water expert. The supply projects being considered are Marin watershed supply at cost of $2,500,000, 12 miles of piping and reservoir included. Sacramento and San Joaquin River supply from False River, $3,000,000, 40 miles of pipe line, pumping stations, filter plant and reservoir included. Snow mountain project, 150 miles of piping, reservoir and distributing system, $1,150,000. Intake to be located near Clear Lake. No final action will be taken by the commission until the latter part of April at which time all projects will have been fully investigated.

RESIDENCES.

SAN FRANCISCO—Residence, 2 story and base, frame, $5,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name not given. Location, Sunset District. Will contain seven rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Composition floor in bath room. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Residence, 1 story and base, frame, $2,500. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, Foote avenue near Mission. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Residence, 2 story and base, frame, $5,000. Architect, Albert Schroepfer, Foxcroft Bldg., S. F. Owner, Edward H. Wobber. Location, Forest Hill. Will contain seven rooms, bath, basement garage and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Residence, 2 story and base, frame, $2,900. Architect, none. Owners, Costello & Ferrick, 204 San Carlos avenue, S. F. Location, east 17th avenue north of Balboa. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,000. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner, Amelia C. Deckelman. Location, west 19th avenue north of Ulloa. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel with some southern gum. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

NEWARK, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $8,000. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owner's name withheld. Will contain nine rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heaters. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. S. Hanson, 1633 Josephine street, Berkeley. Location, north Blake east of Mable. Will contain four rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, J. Drost, 1241 14th street, Oakland. Location, east Linwood avenue north of East 39th street. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantel. Bath rooms composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, S. Goldman. Location, Northbrae. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, Roy L. Long. Location, Northbrae. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, Paul E. Woodburn, 3965 Greenwood avenue, Oakland. Location, Excelsior Heights. Will conlevard. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,350. Architect, none. Owner, C. M. Dean, 515 13th street, Oakland. Location, north Arlington east of Adeline. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, north East 28th street west of Bella Vista. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire

place and furnace heat. Mantel tile or brick. Composition floor in bath. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence alteration, 2 story, frame, $2,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, H. I. Dygert. Location, 2926 Benvenue. Work will consist of interior and exterior plastering, painting, plumbing, electric work. Hardwood floors and new interior trim. Open fire place and tile mantel. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,200. Architect, none. Owner, J. E. Hancock, 3880 Park Boulevard, Oakland. Location, west Park Boulevard north of Hampel. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,500. Architect, none. Owner, M. T. Coll, 3200 Fernside Boulevard, Alameda. Location, 3262 Fairview avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior will be covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. H. Noble, 2200 Central avenue, Alameda. Location, 2508 Noble avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, W. and O. Johnson, 3228 Adeline street, Berkeley. Location, northeast corner of Alcatraz and Baker streets. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Composition floor in bath. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,750. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, east Bayo Vista avenue, north of Monte Vista. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Bath room finished in tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL. Residence, 2 story and base, hollow tile, $30,000. Architects, Goeber & Gates, 72 North Raymond avenue, Pasadena. Owner, Earl V. Armstrong, 1141 South Hope street, L. A. Location, Oak Knoll. Will contain 15 rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water system, hot water circulating system and vacuum cleaning. Open fire places and tile or brick mantels. Bath rooms tile. Exterior covered with cement plaster. Pans complete and work to be carried on by Day Labor under the direction of the architects.

PASADENA, LOS ANGELES CO., CAL. Residence, 2 story and base, hollow tile. Cost not stated. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, Dr. S. J. Tanner. Location, Columbia street and Grand avenue. Will cover an area of 59 by 38 feet with a wing 35 by 17 feet. There will be 15 rooms, four baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, hot water supply and vacuum cleaning. Open fire places and tile mantels. Exterior faced with cement plaster. Bath rooms finished in tile. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, F. E. Bishop, 755 San Jose avenue, S. F. Location, northeast corner of Winding Way and Naylor. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Gus Bloomquist, 2825 8th street, Berkeley. Location, 2825 8th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, John Anderson, 2902 Abby St., Oakland. Location, south Abby east of Allendale. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Carl Ericsson, 1200 Masonic avenue, Albany. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, A. R. Morris, Albany. Location, west Pomona. Will contain six rooms, sleeping porch and bath. Interior finish pine and redwood with some white enamel. Hardwood floor. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owners, Price Bros., 5723 Oak Grove avenue, Oakland. Location, west Inyo south of Solano. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. D. McKoy, 2039 E street, Sacramento. Location, 3101 E street. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, H. G. Birdsall, 1420 13th street, Sacramento. Location T street between Sherman and Wheeler. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Joe St. Mary, 9257 East 14th street, Oakland. Location, east 92nd avenue south of East 14th. Will contain four rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, east Vicksburg avenue north of Ygnacio. Each house will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale west of 28th avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, M. L. Newsom, 1740 Broadway, Oakland. Owner, Mrs. Greenfield. Location, Lake Shore Boulevard. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with

cement plaster. Plans complete and being figured.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location, east Thomas north of Napa. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2 1 story and base, frame, $2,700 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter Packard. Location, Wesley avenue. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire place. Mantels tile and brick. Automatic water heater. Some tile wainscot in bath rooms. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owner, A. L. Schmidt. Location, Excelsion Heights. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,200. Architect, none. Owner, L. P. Martin, 216 Isabella street, Fresno. Location, Arlington Heights. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architects, none. Owners, Hart and Buwalda, Fresno. Location, East Fresno. Will contain seven rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,400. Architect, none. Owner, W. S. Halliday, Fresno. Location, Iowa avenue. Will contain six rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,200. Architect, none. Owner, E. F. Daw, Fresno. Location, Inns Addition. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, Dr. S. J. Tanner. Location, Columbia street and Grand avenue, covering an area of 59 by 38 feet with wing 35 by 17 feet. Will contain

SAN FRANCISCO—Residences, 8, 2 story and base, frame, $2,500 each. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, east Hillway south of Carl. Each house will contain five rooms and bath. Interior finish pine and redwood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, E. W. Nelson, 116 East Lowell street, Oakland. Location, south Aileen east of Lowell. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, H. Goranson, 431 40th street, Oakland. Location, south Hopkins west of Rhoda. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOLS

LODI, SAN JOAQUIN CO., CAL.—School, 2 story and base. Class C construction, $35,000. Architects, Stone & Wright, Stockton. Owners, Lodi School District. Eight contractors tendered bids for the construction of the new grammar school. The building will be of brick and concrete construction. The School Board opened bids and, although no contracts were awarded, Phibbrick & Colvin of Turlock will probably get the general contract, as their bid was $31,728. The next low bid was that of Teichart & Ambrose, Sacramento, who bid $33,980. The highest bid was $40,766. The bids for the heating ranged from $3,190, bid by Hately & Hately, 219 O street, Sacramento, up to $3,796.

ALAMEDA, ALAMEDA CO., CAL.—Schools, 2, 2 story and base, brick and concrete. Cost as follows. Architect, Henry H. Meyers, Kohl Bldg., S. F., and Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. Awards of contracts for the construction of the Washington School addition were made by the Alameda Board of Education at their last meeting as follows. All bids for the addition to the Lincoln School were rejected and plans were ordered revised. Architect Henry H. Meyers prepared plans for the Washington School and Architects Cunningham & Politeo for the Lincoln School. Excavating, grading, brick and concrete work—Chas. B. Hadley, 180 Jessie street, S. F., $13,180. Structural and miscellaneous iron work—Schrader Iron Works, 1247 Harrison street, S. F. $3,485. Carpenter and mill work, glass, stairs, tiling and marble work—M. P. Mortensen, 180 Jessie street, S. F., $17,957. Plastering, lathing, cementing, etc—Greenback Plastering Co., 45 Kearny street, S. F., $2,847. Felt and gravel roofing—Paraffine Paint Co., 40 1st street, S. F., $460. Painting and tinting—Bids rejected. Plumbing, drains, gas fitting and sheet metal work—T. R. Catton, 3007 Jackson street, S. F., $3,399. Electric work—Ne Page-McKinney, 149 New Montgomery, S. F., $2,513. Heating and ventilating—J. C. Hurley, 509 6th street, S. F., $6,246.

SAN FRANCISCO—School, 2 story and base. Class C construction, $120,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, 20th between Texas and Missouri. Will be known as the Daniel Webster School. Only preliminary sketches have been started and details cannot be given at this time. Further mention will be made of the work when plans are complete.

SAN FRANCISCO—School, 3 story and base, concrete and frame. Cost not stated. Architect, City Department of Architecture, City Hall. Owners, City and County of San Francisco. Sketches are being checked and specifications are under way. Bids will be called for in about three weeks or a month. Further mention will be made of the work.

OAKLAND, CAL.—School addition, 1 story, frame, $11,354. Architect, Julia Mogan, Merchants' Exchange Bldg., S. F. Owners, City of Oakland. W. G. Thornally presented the low bid at $11,354 for the addition to the Lakeview School and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

Contracts Awarded.

WOLTERS, FRESNO CO., CAL.—School, 1 story and base, brick, $12,678. Architect, Ernest Kump, Rowell Bldg., Fresno. Owners, Wolters School District. Contractor, James L. Daly, Griffith Bldg., Fresno. Contract price, $12,678.

SEWERS, STREET WORK & WATER SYSTEMS

SAN FRANCISCO — Sidewalk work, $7,440. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Anderson & Ringrose presented the low bid for constructing sidewalks around the City Hall at $7,440. A complete list of the bids received will be found under the heading of San Francisco.

REDWOOD CITY, SAN MATEO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. Bids are being taken by the Town Trustees for the construction of a 12-inch sewer in James avenue. Bids on this work close at 8 p. m. April 3rd. Plans may be had from the Town Clerk at Redwood City.

REDWOOD CITY, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were passed ordering street work done on Main street from Five Points to the railroad crossing, and sidewalks on portions of Broad-

way, Arguello and Winslow streets. It was also ordered that bids be advertised for this work. Bids for the work on Main street will be opened by the board on April 7th, and those for sidewalks on the other streets will be opened on April 3rd.

REDWOOD CITY, SAN MATEO CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor Redwood City. Owners, San Mateo County. At the last meeting of the Supervisors, plans and specifications prepared by the County Surveyor for the San Gregario to Pescadero road, were approved. Bids will probably be called at the next meeting of the board.

REDWOOD CITY, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. Bids will be opened on April 3rd for work under the following resolution: That East Brewster avenue be improved by being graded for the full width of the roadway of said avenue and having constructed thereon a macadamized and oiled roadway for the full width of the roadway of said avenue from the northerly line of the El Camino Real, also known as the County road, to the southerly line of Arguello street, excluding all that portion of the right-of-way of the Southern Pacific Railroad Company between a line 2½ feet south of and parallel to the most southerly rail of the Southern Pacific Railroad Company's track as now constructed and a line 2½ feet north of and parallel to the most northerly rail of the Southern Pacific Railroad Company's track as now constructed. All macadamizing and oiling to be done to the official grades.

FOWLER, FRESNO CO., CAL.—Road construction. Cost not stated. Engineer, C. P. Jensen, Fowler. Owners, City of Fowler. At a meeting of the Board of Trustees of Fowler, at a special called session passed a resolution instructing C. P. Jensen, civil engineer of Fresno, to draw plans and specifications for the construction of a link in the State highway, connecting the ends of the highway at the northwest and southeast ends of the city. The paving is to be of standard width, wider than than the highway outside the city limits.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Petitions for paving certain streets have been secured from the City Manager's office and are now in circulation. The petition for the paving of A street between Nineteenth and Twenty-first streets is being liberally signed. The paving of this thoroughfare is the first under the new plan of making the roadway 40 feet wide, with 14 feet parking space on either side. Some 21 feet of space between the property line and the curbing. It is also proposed to pave the alleys between A and B streets and Twentieth and Twenty-first streets.

SAN FRANCISCO—Street improvement. Cost as follows. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The Board of Public Works has approved plans and specifications for the improvement of Brompton avenue and Bosworth to Joost. Bids ordered received up to March 29th. Flinn & Treacy were low on the improvement of Quint street from Evans to Oakdale, also for the improvement of 24th street between De Haro and Rhode Island. Eaton & Smith were low on the improvement of Genessee between Sunnyside avenue and Hearst. Bid about $4,800. Eaton & Smith were low also for the improvement of Sanchez between 19th and 20th and Cumberland between Sanchez and Noe. Their bid being $38,838.60.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. At the last meeting of the City Council plans and specifications for the improvement of Sunset avenue between Lynde street and Bona street were adopted and a resolution of intention providing for the work was passed.

BERKELEY, ALAMEDA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received on March 28th at 10 a. m. for improvements under the following resolution: That Joseph avenue be graded or regraded to the official grade, that concrete curbs be constructed along the curb lines thereof, that concrete gutters 3 feet wide be constructed in the roadway against said curbs and that the remainder of the roadway be macadamized or remacadamized and surfaced with oil and rock screenings.

HOLLISTER, SAN BENITO CO., CAL.—Road Sprinkler system. Cost not stated. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. At the last meeting of the County Supervisors County Engineer, W. A. Winn was instructed to prepare an estimate on the cost of installing a sprinkler system for the Tres-Pinos-Paicines road, said estimate to be submitted at the next regular meeting of the Board. Further mention will be made of this work.

HOLLISTER, SAN BENITO CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. At the Supervisors last meeting County Engineer W. A. Winn presented plans and specifications for the protection of the Santa Ana road near the old race track property. The plans were approved and the calling of bids for the work was laid over until a later meeting.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids will be opened on March 25th at 10:30 a. m. for constructing Highway No. 1, Division No. 7, and Highway No. 1, Division No. 8, Section No. 1 (Lemoore to Stratford). The quantities to be bid on are as follows: (1) 9,500 cubic yards of excavation (including borrow). (2) 996,273 square feet of 2½-inch base (surface area). (3 or 4) 996,273 square feet of 1½-inch Topeka or Warrenite top. (5) 350 lineal feet of standard guard fence.

VISALIA, TULARE CO., CAL.—Paving. Cost not stated. Engineer, City Engineer, Visalia. Owners, City of Visalia. The Board of Trustees at their last meeting took up the south Bridge street paving again and ordered plans and specifications, adopted them at the same time and at once passed the resolution of intention. Bids on this work were opened a few weeks ago, but the low bidder stated he would lose money on the work and he was released from his contract.

KINGSBURG, FRESNO CO., CAL.—Street improvement. Cost as follows. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. Two bids were received by the Trustees for the improvement of Simpson street. The bids were for grading the street and laying a 21-foot concrete highway along the center thereof, the concrete to be furnished by the county. The bidders were: Johnson Bros., Kingsburg, $8,949; W. A. Kettlewell & Sons, ingsburg, $9,500. Bids will be taken under advisement.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated Engineer, City Engineer, Bakersfield Owners, City of Bakersfield. At the last meeting of the City Council the City Engineer was directed to prepare plans and specifications for the grading and oiling of I street from 4th to 7th, 11th street from C to F; 13th street from C to D, and D street from 14th street to California avenue. The streets will be graded at the expense of the property owners and the city will then oil and care for them.

RIO VISTA, SOLANO CO., CAL.—Street flusher and engine. Cost not stated. Engineer, Town Engineer, Rio Vista. Owners, Town of Rio Vista. Bids will be received on April 6th at 8 p. m. for furnishing the following supplies to be used for work upon the streets of said town: One Uniform Pressure Power Flusher for flushing trash and other foreign substance from the streets, equipped with Timken roller bearings, a four-cylinder gasoline engine, not less than 30-horsepower, centrifugal pump, two flusher heads and one sprinkler head.

FAIRFIELD, SOLANO CO., CAL.—Highway improvement. Cost not stated. Engineer, County Surveyor, Fairfield. Owners, Solano County. At the last session of the County Board of Supervisors plans and specifications for grading and macadamizing the county road between Vallejo and Benicia, in the Third Road District, were approved and the Clerk was directed to advertise for bids for performing the work, such bids to be opened and considered at the meeting of the Board to be held on April 3rd, 11 a. m. Plans for the work may be had from the County Clerk at Fairfield.

RICHMOND, CONTRA COSTA CO., CAL.—Filling and sewer laterals. Cost as follows. Engineer, City Engineer, Richmond. Owners, City of Richmond. The City Council received but two bids for the filling and installing of sewer laterals and a sump in the Canal subdivision. Action was laid over for one week when the contract will probably be awarded. The bids received were Geo. W. Cushing, 420 Macdonald avenue, Richmond, $80,342.20; Richmond Dredging Co., 137 Washington avenue, Richmond, $86,447.50. Further mention will be made of this work when award of contract is made.

FRESNO, FRESNO CO., CAL.—Furnishing cement. Cost not stated. Engineer, County Surveyor, Fresno. Owners, Fresno County. Bids will be received until April 5th at 10 a. m. for furnishing the County of Fresno 1,700 barrels of Portland cement f. o. b. Kingsburg, Cal., in the original packages with the brand and name of manufacturer plainly marked thereon at the time of delivery at Kingsburg, said Portland cement shall conform to the standard specifications for Portland cement adopted by the American Society for Testing Materials, August 16, 1909,

and amendments supplemental thereto and amendatory thereof. If cement is delivered in cloth bags all such cloth bags to be returned to the bidder f. o. b. Kingsburg, Cal.

RICHMOND, CONTRA COSTA CO., CAL.—Subway and sewer construction, $204,350. Engineer, City Engineer H. D. Chapman, Richmond. Owners, City of Richmond. Plans for the improvement of the Macdonald avenue subway, the construction of a storm sewer to drain property between 10th and 23rd streets, and the installation of a concrete ditch parallel to the Southern Pacific tracks for handling of storm water have been submitted by City Engineer H. D. Chapman to the City Council for approval. The subway plans call for the installation of new girders, the raising of the sidewalk to a height of 5 feet and lessening of grade of both approaches at a cost of $9,350; the installation of the 10th street storm sewer which will empty into the canal will cost $115,000, while the drainage ditch for storm waters along the railroad tracks will be put in at a joint cost of $50,000. Action will be taken by the Council at their next meeting.

STOCKTON, SAN JOAQUIN CO., CAL.—Street repairs, $5,000. Engineer, City Engineer, Stockton. Owners, City of Stockton. An ordinance has been passed by the City Council appropriating $5,000, or so much thereof as may be necessary, to pay for the necessary work and labor and the necessary materials for repairing the asphalt pavement on the following streets in the City of Stockton, in accordance with the plans and specifications adopted: Center street from Weber avenue to South street; El Dorado street from Main street to North street; Weber avenue from Commerce street to East street; Hunter street from Weber avenue to Washington street; Washington street from Hunter street to American street; Market street from Center street to East street; California street from Hazelton avenue to North street; Sutter street from Channel street to Lafayette street.

EL MONTE, LOS ANGELES CO., CAL.—Street paving, etc. Cost as follows. Engineer, City Engineer, El Monte. Owners, City of El Monte. The S. C. Contracting Co., Washington Bldg., L. A., submitted the lowest bid at $13,021.61 for the improvement of a portion of Tyler street. The next lowest bid was submitted by the Matthews Construction Co. at $13,442.04. The highest by the Coast Construction Co. at $18,295.28.

ROSEVILLE, PLACER CO., CAL.—Highway construction. Cost not stated. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be opened on April 3rd at 2 p. m. for constructing about 630 feet of highway including two abutments for an underground crossing.

SAN RAFAEL, MARIN CO., CAL.—Road improvement. Cost not stated. Engineer, none. Owners, City of San Rafael. The improvement of the Toll road within the city limits was discussed at the last meeting of the Council. Arthur Loudon, division engineer of the State Highway Commission, inspected the Toll road and gave the Council his version of the most practical manner of improving the road. He was of the opinion that a blanket of cement on this marsh road might have a tendency to make the road sink in places and thought the most feasible plan would be to macadamize the road. Action was deferred until the next meeting of the Council.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. The City Council at its last meeting passed a resolution of intention to change the grade of High street, affecting all that portion from the present termination of the macadamized part to Spring street, beyond the C. C. Moore property.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Overhead crossing. Cost not stated. Engineer, County Surveyor Owen O'Neill, Santa Barbara. Owners, Santa Barbara County. County Surveyor Owen O'Neill reports that he has completed plans and specifications for the overhead crossing on the State highway at Bell Canyon, which are now awaiting the approval of the State Engineer's office. On approval of plans bids will be called.

Contracts Awarded.

LOS ANGELES, CAL. — Road improvement, $62,491.42. Engineer, County Engineer, L. A. Owners, Los Angeles County. Contractor, Oscar Ford, Riverside. Contract price, $62,491.42. Section C of the Mint Canyon road.

LOS ANGELES, CAL. — Road improvement, $15,875. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Contractors, S. C. Contracting Co., Washington Bldg., L. A. Contract price, $15,875.

MODESTO, STANISLAUS CO., CAL.—Road construction, $34,945. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Contractor, F. R. Ritchie & Co., Chronicle Bldg., S. F. Contract price, $34,945.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sewer construction, $18,169.61. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. B. Byrne of Santa Cruz was awarded the contract to construct the storm sewers, grading and paving of Bay street from King to Continental street. His bid was for $18,169.61. City Engineer's estimate, $20,000. Other bidders were: W. A. Dontanville, Salinas, $19,730.37; Carl Ehrhart & C. G. Blanchard, S. F., $21,327.21; City Street Improvement Co., S. F., $20,975.08; Eaton & Smith, S. F., $18,976.97; E. H. Sundberg, Oakland, $22,339.59; W. E. Miller, Santa Cruz, $19,701.69; McGillivray Construction Co., Sacramento, $18,375.82.

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Contractors, Hutchinson Co., 13th and Franklin streets, Oakland. Contract private.

STORES AND OFFICES.

SAN FRANCISCO—Stores, 1 story and base, frame, $14,000. Architect, W. H. Weeks, 75 Post street, S. F. Owner, Dr. Frazier. Location, 10th avenue and Clement street. Will contain a number of small stores. Interior finish pine. Patent store fronts, marble bases and hardwood floor windows. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Stores, 2 story and base, brick, $10,000. Architect, none. Owner, R. W. Moller, 185 Stevenson street, S. F. Location, north Sacramento east of Kearny. Will contain two stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Department store addition. Class A construction, $400,000. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrot Estate. That extensive improvements are to be made at the Emporium Building on Market street was the announcement made by the Parrott Estate Co., owners of the property. It is stated that the work contemplated will cost several hundred thousand dollars. Architect Morris M. Bruce is the architect and Engineer Snyder, 251 Kearny street, will be in charge of the structural details. Construction will be under the direction of the Dinwiddie Construction Co., Yeon Bldg., Portland. In the rear of the present building is a piece of property fronting on Jessie street and adjoining the Emporium on the west, which has an area of 75 by 100 feet. On this property will be erected a six or seven-story Class "A" warehouse. This building will be used for storage purposes and will give the Emporium the use of valuable space in the main building which is now used for storage purposes. Between the three-story wings in the rear of the Emporium, is a space 140 by 220 feet around the great dome. This will be floored over and connected with the dome making the third floor of the main portion of the building a duplicate of the second floor. This will necessitate tearing out the wall of the main building and replacing the present windows with columns. Another three-story wing will also be added, which will give the department store the space contained in the main portion of the building and three wings, one facing the south, one the east and one the west.

OAKLAND, CAL.—Store alteration. Class C construction, $5,000. Architect, William Wilde, 1725 Broadway, Oakland. Owners, Pereira Realty Co. Location, southeast corner of 8th and Washington streets. Work will consist of new interior finish, plumbing, electric work, plastering and painting. Patent store fronts and marble bases will be installed. Some new exterior brick work will also be required. Plans are being prepared.

YOLANDA, MARIN CO., CAL.—Stores and apartments, 2 story and base, frame, $6,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name not given. Will contain two stores and two apartments of three rooms each. Interior finish pine. Patent store fronts. Wall beds. Exterior covered with cement plaster. Plans being prepared.

YOLANDA, MARIN CO., CAL.—Stores, 1 story, frame, $5,000. Architect, C. O. Clasen, Hearst Bldg., S. F. Owner's name withheld. Will contain two stores. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

SEATTLE, WASH.—Stores and lofts, 4 story and base, reinforced concrete, $80,000. Architects, Beezer Bros., Northern Bank Bldg., Seattle. Owner, F. J. Nestor, Farragut Apts., Seattle. Location, Westlake and Virginia streets. Will contain a number of stores on the first floor. Upper floors arranged for lofts. Interior finish pine. Steam heat, elevator service and oil

burning equipment. Metal window sash and frames. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal.—SEALED PROPOSALS, in triplicate, for alteration to sewer system, Fort Miley, Cal., will be received here **until 11:00 A. M., March 29, 1916,** and then opened. Further information on application. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, April 17, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of "Cottages for Men and Women," Napa State Hospital, near Napa, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Cottages for Men and Women,' Napa State Hospital, near Napa, California."

[SIGNED] W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal.—SEALED PROPOSALS, in triplicate, for constructing Reinforced Concrete Wharf at Fort Baker, Cal., will be received here **until 11:00 A. M., March 30th, 1916,** and then opened. Further information on application. (*)

PROPOSALS FOR CANAL SUPPLIES.

posals for Commissary Coupon Books. —Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 29, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1021) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. F. C. BOGGS, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1022 — Proposals for Structural Steel, Steel Plates, Cold Rolled Steel, Soft Steel, Steel Billets, Planished Iron, Steel Cable, Electric Cable, Steel Wire, Steel and Iron Pipe, Wire Lath, Electric Motors, Lathe, Band Saws, Dies, Fusible Plugs, Spark Plugs, Grease Cups, Oil Cups, Priming Cups, Water Gauge Lamps, Water Closets, Lavatories, Washers, Packing, Canvas, Rubber Bands, Lime, Sal Soda, Aluminum, Putty, Muriatic Acid, Acetone, Shellac, Varnish, Lacquer, Umber and Vermilion.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. March 31, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1022) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Tacoma, Wash. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

Highway Engineer's Estimate.

Item 1. 8,500 cubic yards excavation with out classification.

Item 2. 600 cubic yards Class "B" Portland cement concrete (abutments).

Item 3. 135 cubic yards Class "B" Portland cement concrete (pavement).

Item 4. 8 each, hauling and setting monuments.

The Commission will furnish, as more explicitly set forth in the specifications, the following materials, viz: Portland cement, sand and coarse aggregate for concrete.

The foregoing quantities are approximate only, being given as a basis for the comparison of bids, and the Department of Engineering does not, expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work, as may be deemed necessary or expedient by the said Commission.

All bids are to be compared on the basis of the Highway Engineer's estimate of the quantities of work to be done.

Plans may be seen, and forms of proposal, bonds, contract, and specifications may be obtained at the said office and they may be seen at the offices of the Division Engineers at Los Angeles and San Francisco, and at the office of the Division Engineer of the division in which the work is situated. The Division Engineers' offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS, Secretary.

PROPOSALS FOR STEEL TOWERS.

STEEL TOWERS—Sealed proposals, indorsed "Proposals for Two Three-hundred-foot Steel Towers," will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. April 22, 1916,** and then and there publicly opened, for the construction of two 300-foot steel towers at the radio station near Cordova, Alaska. Plans and specifications may be obtained on application to the bureau. WILLIAM M. SMITH, acting chief of bureau.

PROPOSALS FOR CEMENT.

CEMENT—U. S. Engineer Office, 723 Central Building, Los Angeles, Cal.—Sealed proposals for furnishing American Portland cement, sand and crushed rock at San Diego, Cal., will be received here until **11 a. m. March 31, 1916,** and then opened. Information on application.

NOTICE TO CONTRACTORS.

SEALED proposals will be received at the office of the California Highway Commission, 515 Forum Building, Sacramento, Cal., until **2 o'clock p. m., on April 3, 1916,** at which time they will be publicly opened and read, for constructing in accordance with the specifications therefor, to which special reference is made, portions of State Highway as follows:

Placer County, one mile north of Roseville City limits (III-Pla-3-A), about 630 feet in length (including two abutments for an undergrade crossing of the railroad), to be paved with Portland cement concrete.

The Scenic Line

Direct to

Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.

Automatic Block Signals.

Observation Cars.

Rock Ballasted road-bed.

Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.

Write for descriptive folder.

Oakland, Antioch & Eastern Railway

San Francisco Depot Key Route Ferry

FAST ELECTRIC TRAINS TO Sacramento A&E

LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY

Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. P.; People's Express Co., Oakland.

POSITION WANTED.

TIMEKEEPER, COSTKEEPER, Commissary Clerk, Camp Steward. 8 years' experience on all kinds of construction work. A-1 references as to ability. Go anywhere. Phone or write CLEM PAINE, Room 302 Carlton Hotel, 545 Turk Street.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

WATER SYSTEM EXTENSION—Cost not stated. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City of San Francisco. The San Francisco Board of Public Works has approved plans and specifications for the extension of the Municipal Water Works and the Secretary has been directed to advertise for bids.

STREET IMPROVEMENT—Cost as follows. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The Board of Public Works approves plans and specifications for the improvement of Brompton avenue and Bosworth to Joost. Bids ordered received up to March 29th. Flinn & Treacy were low on the improvement of Quint street from Evans to Oakdale, also for the improvement of 24th street between De Haro and Rhode Island. Eaton & Smith were low on the improvement of Genessee between Sunnyside avenue and Hearst. Bid about $4,800. Eaton & Smith were low also for the improvement of Sanchez between 19th and 20th, and Cumberland between Sanchez and Noe. Their bid being $38,838.60.

ALTERATION TO SEWER SYSTEM—Cost not stated. Fort Mason, Cal. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received until March 29th at 11 a. m. for constructing of alterations to the present sewer system at Fort Miley. An official proposal appears in another column of this issue.

APARTMENT HOUSE—3 story and base, frame, $12,000. San Francisco. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner, J. Goldberg. Location, Masonic avenue south of Haight street. Will contain six modern three-room apartments with wall beds and private baths. Interior finish pine and redwood. Some hardwood floors. Hot water system and gas steam radiators. Bath rooms composition floors. Plans complete and figures being taken.

APARTMENT HOUSES—2 and 3 story and base, reinforced concrete, $150,000. San Francisco. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Marine View Terrace Apartments Co. Location, southeast southeast corner of Green and Taylor streets. The project, revived after more than a year, will be stated at once. The apartments will range from 7 to 12 rooms and will be finished to suit the tenants and will be leased for long-term periods. Hardwood floors will be used throughout. A central heating system and hot water supply will be installed. Exteriors will be faced with cement plaster. Further mention will be made when bids are called.

APARTMENT HOUSE—4 story and base, reinforced concrete. Cost not stated. San Francisco. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner's name not given. Location, west Leavenworth north of Bush, covering an area of 34 by 87 feet. Will contain 18 apartments of two rooms and bath each. Interior finish pine and hardwood veneer. Hardwood floors. Steam heat and oil burning equipment. Hot water system and dumb waiters. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures to be taken at once.

APARTMENT HOUSE—3 story and base, frame, $10,000. San Francisco. Architect, Earl B. Scott, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, corner of 30th and Church streets. Will contain six apartments of three rooms and bath. Interior finish pine. Some hardwood floors. Composition floors in bath rooms. Gas steam radiators. Exterior covered with rustic. Plans complete and figures to be called for at once.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name not given. Location, Sunset District. Will contain seven rooms, bath and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Composition floors in bath room. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, Foote avenue near Mission. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architect, Albert, Schroepfer, Foxcroft Bldg., S. F. Owner, Edward H. Wobber. Location, Forest Hill. Will contain seven rooms, bath, basement garage and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $2,900. San Francisco. Architect, none. Owners, Costello & Ferrick, 204 San Carlos avenue, S. F. Location, east 17th avenue north of Balboa. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner, Amelia C. Deckelman. Location, west 19th avenue north of Ulloa. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel with some southern gum. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—8, 2 story and base, frame, $2,500 each. San Francisco. Architect, none. Owner, F. Nelson, 30 Presidio Terrace, S. F. Location, east Hillway south of Carl. Each house will contain five rooms and bath. Interior finish pine and redwood with some elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIER REPAIR—$28,950. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids were opened at the Thursday meeting of the State Board of Harbor Commissioners for additions and repairs to be made to Pier No. 41. S. B. Peterson presented the low bid at $28,950. His bid was taken under advisement for one week. Following is a list of the bids received: Tibbitts-Pacific Co., $41,317.20; San Francisco Bridge Co., $37,436; Thomson Bridge Co., $40,765; Healy-Tibbitts Construction Co., $38,154; S. B. Peterson, $28,-950; Hyde, Harjes & Co., $38,166.50. The next work to be advertised for by the Harbor Commission will be for repairs and additions to Pier No. 38. This work will consist of constructing a railroad track on the outside of the pier shed and connecting with the Belt Line Railroad.

FLATS AND STORE—2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, A. Angelos, 101 Lakeview avenue, S. F. Location, southwest Lakeview and Caine. Will contain one store and a modern five-room flat. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $3,600. San Francisco. Architect, none. Owner, Mary A. Donovan, 470 Sanchez street, S. F. Location, north 17th east of Prosper, covering an area of 25 by 59 feet. Will contain two flats of five and six rooms. Interior finish pine, redwood and elm panels. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $3,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, G. Torre. Location, southeast corner of Union and Taylor streets. Will contain three flats of five and six rooms. Interior finish pine and redwood with some elm panels. Hard-

wood floors. Open fire places. Tile and brick mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS—2 story and base, frame, $3,500. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, Green near Montgomery. Will contain two flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

WAREHOUSE—3 story and base, brick, $15,000. San Francisco. Architects, Heiman & Swartz, Nevada Bank Bldg., S. F. Owner, Joseph Lerer. Location, northwest corner of 11th and Harrison streets, covering an area of 100 by 80 feet. Extra heavy construction. Cement first floor. No interior trim. Exterior faced with stock brick. Plans complete and ready for figures.

HOTEL AND STORES—3 story and base. Class C construction. Cost not stated. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name withheld. Location, corner of Polk and Post streets. Will contain five stores and a total of 30 hotel rooms. Interior finish pine and elm. Patent store fronts. Private and public baths. Steam heat and hot water supply. Bath rooms tile. Exterior faced with pressed brick and cement plaster. Plans being prepared.

SIDEWALK WORK — $7,440. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Anderson & Ringrose presented the low bid for constructing sidewalks around the City Hall at $7,440. A complete list of the bids received will be found under the heading of San Francisco.

APARTMENT HOUSE—4 story and base. Class C construction, $65,000. San Francisco. Architect, none. Owner, John Dempniak, 1658 Washington St., S. F. Location, Mason near California, covering an area of 50 by 100 feet. Will contain 22 suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water supply and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot in lobby. Exterior faced with pressed brick and cement plaster. Plans being prepared and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $14,000. San Francisco. Architect, none. Owner, M. Dempniak, 728 Page street, S. F. Location, west Leavenworth north of Vallejo. Will contain a number of two, three and four room apartments. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work being done by Day Labor.

APARTMENT HOUSE—5 story and base, reinforced concrete, $27,000. San Francisco. Architect, none. Owner, John Dempniak, 1658 Washington St., S. F. Location, east Hyde north of Sutter. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors and tile wainscot. Automatic elevator. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete, grading under way and balance of work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco. Architect, Earl B. Scott, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, 16th and Capp streets. Will contain two small stores and eight apartments of three rooms each. Interior finish pine. Gas steam radiators. Composition floors in bath rooms. Wall beds. Patent store fronts. Exterior covered with rustic and shiplap. Plans complete and figures being taken.

WHARF—Reinforced concrete, $80,000. San Francisco. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Bids will be received until March 30th at 11 a. m. for constructing reinforced concrete wharf, 90 by 150 feet with approach 32 by 216 feet. Eighteen-inch concrete piles, 6-inch concrete slab, deep reinforced concrete beams, Arthur Koppel & Co. railroad equipment, asphalt floor.

WAREHOUSE—3 story and base, steel and brick, $54,000. San Francisco. Architect, Charles Paff, 343 Sansome street, S. F. Owner, E. H. Howard. Location, south Mission east of Fremont, covering an area of 68 feet 9 inches by 137½ feet. Steel frame and brick exterior walls. Waterproof basement. First floor arranged for store and upper floors for warehouse. Interior finish pine. Elevator service and steam heat. Exterior faced with pressed brick. Patent store front. Plans being prepared.

DYEING WORKS — 2 story, reinforced concrete. Cost not stated. San Francisco. Architect, August Headman, New Call Bldg. Owner, J. Allec. Location, 2164 Folsom street. Fireproof construction. Interior finish pine. Cement floor. Special machinery and gasoline storage tanks. Metal window sash and frames. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

FLATS—2 story and base, frame, $4,500. San Francisco. Architect, none. Owner, E. Fahish, 192 Valley street, S F. Location, southeast Clement and 31st avenue, covering an area of 32½ by 45 feet. Will contain two flats of five rooms each. Basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, R. H. Maddock. Location, south Boyd east of Chesley, covering an area of 33 by 33 feet. Will contain two flats of five rooms each. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—2 story and base, reinforced concrete, $16,000. San Francisco. Architect, P. Righetti, Phelan Bldg., S. F. Owners, California Baking Co. Location, Ellis and Pierce streets. Will contain accommodations for 40 machines, machine shop and wash room. Interior finish rough. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with cement plaster. Plans complete and figures being taken.

HOTEL ALTERATION—Frame, $5,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, A. P. Giannini Co. Location, southwest Mason and Water street. Work will consist of excavating, underpinning, cement work and cement floors, interior mill work, painting, plumbing, electric work and plastering. Plans are complete and figures being taken.

HOSPITAL—2 story and base, reinforced concrete, $50,000. San Francisco. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Location, 18th and Pennsylvania. Will contain wards, operating rooms, nurses' quarters and an emergency department. Interior finish white enamel and tile. Tile floor. Steam heat and hot water supply. Oil burning system. Hospital plumbing. Exterior faced with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. San Francisco. Architect, none. Owner, F. E. Bishop, 755 San Jose avenue, S. F. Location, northeast corner of Winding Way and Naylor. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL—2 story and base. Class C construction, $120,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, 20th between Texas and Missouri. Will be known as the Daniel Webster School. Only preliminary sketches have been started and details cannot be given at this time. Further mention will be made of the work when plans are complete.

SCHOOL—2 story and base, concrete and frame. Cost not stated. San Francisco. Architect, City Dept. of Architecture, City Hall. Owners, City and County of San Francisco. Sketches are being checked and specifications are under way. Bids will be called for in about three weeks or a month. Further mention will be made of the work.

STORES—1 story and base, frame, $14,000. San Francisco. Architect, W. H. Weeks, 75 Post street, S. F. Owner, Dr. Frazier. Location, 10th avenue and Clement street. Will contain a number of small stores. Interior finish pine. Patent store fronts, marble bases and hardwood floor windows. Exterior covered with cement plaster. Plans complete and figures being taken.

STORES—2 story and base, brick, $10,000. San Francisco. Architect, none. Owner, R. W. Moller, 185 Stevenson street, S. F. Location, north Sacramento east of Kearny. Will contain two stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

DEPARTMENT STORE ADDITION—Class A construction, $400,000. San Francisco. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrot Estate. That extensive improvements are to be made at the Emporium Building on Market street was the announcement made by the Parrott Estate Co., owners of the property. It is stated that the work contemplated will cost several hundred thousand dollars. Architect Morris M. Bruce is the architect and Engineer Snyder, 251 Kearny street, will be in charge of the structural details. Construction will be under the direction of the Dinwiddie Construction Co., Yeon Bldg., Portland. In the rear of the present building is a piece of property fronting on Jessie street and adjoining the Emporium on the west, which has an area of 75 by 100 feet. On this property will be erected a six or seven-story Class "A" warehouse. This building will be used for storage purposes and will give the Emporium the use of valuable space in the main building which is now used for storage purposes. Between the three-story wings in the rear of the Emporium, is a space 140 by 220 feet around the great dome. This will be floored over and connected with the dome making the third floor of the main portion of the building a duplicate of the second floor. This will necessitate tearing out the wall of the main building and replacing the present windows with columns. Another three-story wing will also be added, which will give the department store the space contained in the main portion of the building and three wings, one facing the south, one the east and one the west.

City Bids Opened.

Bids For Special Furniture in Registrar's Office Only Work Opened By Board of Public Works.

Bids were opened at the Wednesday meeting of the Board of Public Works for special furniture in the Registrar's Office in the City Hall. Mullen Mfg. Co. were low on the work at $795. Following is a list of the bids received:

Special Furniture.

Fink & Schindler	$ 995
William Bateman	1,059
James B. McSheehy	928
Mullen Mfg. Co.	795
B. Stone	1,148

The following bids were opened at Friday's session of the San Francisco Board of Public Works for constructing sidewalks around the City Hall. Anderson & Ringrose presented the low figure at $7,440 and will probably be awarded the contract.

Sidewalks Around City Hall.

D. O. Church Co.	$7,724.00
Peterson & Grier	8,949.00
Elmer Carlson	8,990.00
Anderson & Ringrose	7,440.00
Thomas A. Clark	8,940.00
T. W. McClenahan	7,872.00
Barrett & Hilp	7,987.00
O. Monson	8,734.00
C. C. Christensen	8,555.10
C. L. Wold	9,923.00
J. B. McSheehy	9,728.00

At the same meeting of the Board a contract for furnishing and installing special furniture in the Registrar's office was awarded to Mullen Mfg. Co., 64 Rausch street, on their bid of $795.

State Harbor Board Receives Figures.

STATE HARBOR BOARD RECEIVES FIGURES.

Low Bid For Repairs and Addition to Pier No. 44 Taken Under Advisement for One Week.

Bids were opened at the Thursday meeting of the State Board of Harbor Commissioners for additions and repairs to be made to Pier No. 44. S. B. Peterson presented the low bid at $28,950. His bid was taken under advisement for one week. Following is a list of the bids received:

Repairs to Pier No. 44.

Tibbitts Pacific Co.	$41,317.20
San Francisco Bridge Co.	37,436.00
Thomson Bridge Co.	40,765.00
Healty-Tibbitts Constr. Co.	38,154.00
S. B. Peterson	28,950.00
Hyde-Harjes & Co.	38,166.50

The next work to be advertised for the Harbor Commission will be for repairs and additions to Pier No. 38. This work will consist of constructing a railroad track on the outside of the pier shed and connecting with the Belt Line Railroad.

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. At the last meeting of the City Council plans and specifications for the improvement of Sunset avenue between Lynde street and Bona street were adopted and a resolution of intention providing for the work was passed.

STREET IMPROVEMENTS—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received on March 28th at 10 a. m. for improvements under the following resolution: That Joseph avenue be graded or regraded to the official grade, that concrete curbs be constructed along the curb lines thereof, that concrete gutters 2 feet wide be constructed in the roadway against said curbs and that the remainder of the roadway be macadamized or remacadamized and surfaced with oil and rock screenings.

RESIDENCE — 2 story and base, frame, $8,000. Newark, Alameda Co., Cal. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owner's name withheld. Will contain nine rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heaters. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, J. S. Hanson, 1633 Josephine street, Berkeley. Location, north Blake east of Mable. Will contain four rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. Drost, 1241 14th street, Oakland. Location, east Linwood avenue north of East 49th street. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, S. Goldman. Location, Northbrae. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, Roy L. Long. Location, Northbrae. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Paul E. Woodburn, 3965 Greenwood avenue, Oakland. Location, east El Centro near Park Boulevard. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,350. Oakland, Cal. Architect, none. Owner, C. M. Dean, 515 13th street, Oakland. Location, north Arlington east of Adeline. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $8,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, north East 28th street west of Bella Vista. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and

furnace heat. Mantel tile or brick. Composition floor in bath. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE ALTERATION—2 story frame, $2,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, H. I. Dygert. Location, 2926 Benvenue. Work will consist of interior and exterior plastering, painting, plumbing, electric work. Hardwood floors and new interior trim. Open fire place and tile mantel. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,200. Oakland, Cal. Architect, none. Owner, J. E. Hancock, 3880 Park Boulevard, Oakland. Location, west Park Boulevard north of Hampel. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Joe St. Mary, 9257 East 14th street, Oakland. Location, east 92nd avenue south of East 14th. Will contain four rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior rustic. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,000 each Oakland, Cal. Architect, none. Owner, R. C. Hillen, 430 Haight street, Alameda. Location, east Vicksburg north of Ygnacio. Each house will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Composition floors in bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOLS—2, 2 story and base, brick and concrete. Cost as follows. Alameda, Alameda Co., Cal. Architects, Henry H. Meyers, Kohl Bldg., S. F., and Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. Awards of contracts for the construction of the Washington School addition were made by the Alameda Board of Education at their last meeting at follows. All bids for the addition to the Lincoln School were rejected and plans were ordered revised. Architect Henry H. Meyers prepared plans for the Washington School and Architects Cunningham & Politeo for the Lincoln School. Excavating, grading, brick and concrete work—Chas. B. Hadley, 180 Jessie street, S. F., $13,180. Structural and miscellaneous iron work —Schrader Iron Works, 1247 Harrison street, S. F., $3,485. Carpenter and mill work, glass, stairs, tiling and marble work—M. P. Mortensen, 180 Jessie street, S. F., $17,957. Plastering, lathing, cementing, etc.—Greenback Plastering Co., 45 Kearny street, S. F., $2,847. Felt and gravel roofing—Paraffine Paint Co., 40 First street, S. F., $460. Painting and tinting—Bids rejected. Plumbing, drains, gas fitting and sheet metal work—T. R. Calton, 3007 Jackson street, S. F., $3,399. Electric work —Ne Page-McKinney, 149 New Montgomery street, S. F., $2,513. Heating and ventilating—J. C. Hurley, 509 6th street, S. F., $6,246.

SIXTEEN MARCH 17 HOYT

FLATS—2 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, J. E. Askew, 2206 Roosevelt avenue, Berkeley. Location, east Roosevelt avenue south of Alston. Will contain nine rooms, two baths and sleeping porch. Interiors finished in pine and white enamel. Hardwood floors. Open fire places and tile mantels. Composition floors in bath rooms. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, W. J. Myers, 3110 High street, Oakland. Location, northeast corner of High and Virginia avenue. Will contain two flats of four rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FACTORY PLANT—1, 2 and 3 story, reinforced concrete. Cost not stated. Oakland, Cal Architect's name not given. Owners, Chevrolet Motor Co. Eli White of Detroit, Mich., is in charge of the construction of the big factory plant now being erected on Foothill Boulevard in Oakland for the Chevrolet Motor Co. Excavation and concrete work are now under way. Mr. White is purchasing all materials and can be found only at the site.

RESIDENCE — 2 story and base, frame, $2,750. Alameda, Alameda Co., Cal. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, east Bayo Vista avenue north of Monte Vista. Will contain six ooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Bath room finished in tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,500. Alameda, Alameda Co., Cal. Architect, none. Owner, M. T. Coll, 3200 Fernside Boulevard, Alameda. Location, 3262 Fairview avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior will be covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, Gus Bloomquist, 2825 8th street, Berkeley. Location, 2825 8th street. Will contain five rooms, bath and sleeping porch Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, John Anderson, 2902 Abby street, Oakland. Location, south Abby east of Allendale Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $,500. Albany, Alameda Co., Cal. Architect, none. Owner, Carl Ericsson, 1200 Masonic avenue, Albany. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Albany, Alameda Co., Cal. Architect, none. Owner, A. R. Morris, Albany. Location, west Pomona. Will contain six rooms, sleeping porch and bath. Interior finish pine and redwood with some white enamel. Hardwood floor. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Albany, Alameda Co., Cal. Architect, none. Owners, Price Bros., 5723 Oak Grove avenue, Oakland. Location, west Inyo south of Solano. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL ADDITION—1 story, frame, $11,354. Oakland, Cal. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, City of Oakland. W. G. Thornally presented the low bid at $11,354 for the addition to the Lakeview School and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

STORE ALTERATION—Class C construction, $5,000. Oakland, Cal. Architect, William Wilde, 1725 Broadway, Oakland. Owners, Pereira Realty Co. Location, southeast corner of 8th and Washington streets. Work will consist of new interior finish, plumbing, electric work, plastering and painting. Patent store fronts and marble bases will be installed. Some new exterior brick work will also be required. Plans are being prepared.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale west of 38th avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, M. L. Newsom, 1740 Broadway, Oakland. Owner, Mrs. Greenfield. Location, Lake Shore Boulevard. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels, tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster Plans complete and being figured

RESIDENCE 2 story and base, frame, $3,500. Oakland, Cal. Architect,

none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location east Thomas north of Napa. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,700 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter Packard. Location, Wesley avenue. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heaters. Some tile wainscot in bath rooms. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owner, A. L. Schmidt. Location, Excelsior Heights. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2200 Central avenue, Alameda. Location, 2508 Noble avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owners, W. and O. Johnson, 3228 Adeline street, Berkeley. Location, northeast corner of Alcatraz and Baker streets. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Composition floor in bath. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Oakland, Cal. Architect, none. Owner, E. . Nelson, 116 Lowell street, Oakland. Location, south Aileen east of Lowell. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story ands base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. Goranson, 431 40th street, Oakland. Location, south Hopkins west of Rhoda. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

APARTMENT HOUSE—3 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owners, Enterprise Hall Association. Contractor, R. H. Cooley, First Trust Bldg., Oakland. Contract price, $10,000. Contractor is taking subfigures.

Will Revise Plans On Alameda School.

Lincoln School Plans to be Revised. Many Contracts Awarded For Washington School Job.

Awards of contracts for the construction of the Washington School addition were made by the Alameda Board of Education at their last meeting as follows. All bids for the addition to the Lincoln School were rejected and plans were ordered revised. Architect Henry H. Meyers prepared plans for the Washington School and Architects Cunningham & Politeo for the Lincoln School.

Washington School Awards.

Excavating, grading, brick and concrete work—Chas. B. Hadley, 180 Jessie, San Francisco. $13,180.

Structural and miscellaneous iron work—Schrader Iron Works, 1247 Harrison, San Francisco. $3,485.

Carpenter and mill work, glass, stairs hardware, tiling and marble work—M. P. Mortensen, 180 Jessie, San Francisco. $17,957.

Plastering, lathing, cementing, etc.—Greenback Plastering Co., 45 Kearny, San Francisco. $2,847.

Felt and gravel roofing—Paraffine Paint Co., 40 First, San Francisco, $460.

Painting and tinting—Bids rejected.

Plumbing, drains, gas fitting and sheet metal work—T. R. Catton, 3007 Jackson. $3,399.

Electric work—Ne Page-McKinney, 149 New Montgomery, San Francisco, $2,513.

Heating and ventilating—J. C. Hurley, 509 6th, San Francisco. $6,246.

Bids Received For Lakeview School.

Five Sets of Figures Received By Oakland Board of Education for Additions to School.

Five bids only were received at the Thursday night meeting of the Oakland Board of Education for the construction of the frame addition to the Lakeview School. Plans for the work were prepared by Architect Julia Morgan, Merchants' Exchange Bldg., San Francisco. W. G. Thornally submitted the low figure at $11,354. All blds were referred to the legal department.

Alternate No. 1, provided for omission of lavatory No. 1 and Alternate No. 2 for omission of lavatory No. 2. Following is a complete list of the bids as opened:

Addition to Lakeview School.

Christensen Bros...	$12,124	$1,700	$1,350
W. G. Thornally...	11,354	1,597	1,210
J. C. Nielsen.....	12,280	1,688	1,267
Alfred Olson.....	12,824	1,728	1,414
Peter N. Schmidt..	12,810	1,763	1,531

SAN JOSE AND THE SANTA CLARA VALLEY

ROAD SPRINKLER SYSTEM—Cost not stated. Hollister, San Benito Co., Cal. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. At the last meeting of the County Supervisors County Engineer W. A. Winn was instructed to prepare an estimate on the cost of installing a sprinkler system for the Tres-Pinos-Paicines road, said estimate to be submitted at the next regular meeting of the Board. Further mention will be made of this work.

ROAD IMPROVEMENT — Cost not stated. Hollister, San Benito Co., Cal. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. At the last Supervisors' meeting County Engineer, W. A. Winn presented plans and specifications for the protection of the Santa Ana road, near the old race track property. The plans were approved and the calling of bids for the work was laid over until a later meeting.

BRIDGE PAINTING—Cost not stated. Hollister, San Benito Co., Cal. Engineer, County Surveyor W. A. Winn, Hollister. Owners, San Benito County. Specifications prepared by County Engineer W. A. Winn for painting the Hollister-San Juan bridge were approved and bids were ordered received up to April 3rd, 10 a. m. Further information may be had from the County Clerk at Hollister.

APARTMENT HOUSE—2 story and base, reinforced concrete, $20,000. San Jose, Santa Clara Co., Cal. Architect, Charles S. McKenzie, Bank of San Jose Bldg., San Jose. Owners, Southeimer & Haskins. Location, west 5th between Santa Clara and San Fernando streets. Will contain 16 apartments of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms composition floors. Marble and tile wainscot. Wall beds. Exterior faced with cement plaster. Plans complete and figures being taken.

STREET IMPROVEMENT—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa ruz. The City Council at its last meeting passed a resolution of intention to change the grade of High street affecting all that portion from the present termination of the macadamized part to Spring street, beyond the C. C. Moore property.

SEWER CONSTRUCTION—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. Bids are being taken by the Town Trustees for the construction of a 12-inch sewer in James avenue. Bids on this work close at 8 p. m. April 3rd. Plans may be had from the Town Clerk at Redwood City.

STREET IMPROVEMENT—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions were passed ordering street work done on Main street from Five Points to the railroad crossing, and sidewalks on portions of Broadway, Arguello and Winslow streets. It was also ordered that bids be advertised for this work. Bids for the work on Main street will be opened by the board on

April 7th, and those for sidewalks on the other streets will be opened on April 3rd.

ROAD CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. At the last meeting of the Supervisors, plans and specifications prepared by the County Surveyor for the San Gregorio to Pescadero road, were approved. Bids will probably be called at the next meeting of the board.

STREET IMPROVEMENT—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. Bids will be opened on April 3rd for work under the following resolution: That east Brewster avenue be improved by being graded for the full width of the roadway of said avenue and having constructed thereon a macadamized and oiled roadway for the full width of the roadway of said avenue from the northerly line of the El Camino Real, also known as the County road, to the southerly line of Arguello street, excluding all that portion of the right-of-way of the Southern Pacific Railroad Company between a line 2½ feet south of and parallel to the most southerly rail of the Southern Pacific Railroad Company's track as now constructed and a line 2½ feet north of and parallel to the most northerly rail of the Southern Pacific Railroad Company's track as now constructed. All macadamizing and oiling to be done to the official grades

Contracts Awarded.

SEWER CONSTRUCTION—$18,169.61. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. B. Byrne of Santa Cruz was awarded the contract to construct the storm sewers, grading and paving of Bay street from King to Continental street. His bid was for $18,169.61. City Engineer's estimate was $20,000. Other bidders were: W. A. Dontanville, Salinas, $19,730.37; Carl Ehrhart & C. G. Blanchard, S. F., $21,327.21; City Street Improvement Co., S. F., $20,975.08; Eaton & Smith, S. F., $18,976.97; E. H. Sundberg, Oakland, $22,339.59; W. E. Miller, Santa Cruz, $19,701.69; McGillivray Construction Co., Sacramento, $18,375.82.

TRESTLE CONSTRUCTION—$2,562.44. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Contractor, R. D. Savage. Contract price, $2,562.44.

San Bruno School Bids Received.

R. C. Stickle of San Bruno Low for Four Class Room Building, Designed by Edwards & Norberg.

Bids were opened by the San Bruno School Trustees at their meeting Thursday night for the construction of a one-story frame and plaster school building of four class rooms, designed by Architects Edwards & Norberg, Bank Bldg., Burlingame. R. C. Stickle, San Bruno, presented the low bid for $14,472 on Prop. A., and for $13,786 for Prop B. Following is a complete list of the bids received:

San Bruno School.

W. H. Pierce	$15,125	$14,425
Louis Cereghino & Son	.....	14,000
J. H. Wilson	17,500	16,600
J. Johnson	15,799	15,229
John R. Wagner	17,250	.....
John E. Beck	16,674	16,000
Butcher & Serna	16,595	15,895
Coleman & Duncan	16,272	15,372
Geo. Doering	14,990	14,595
Chris. Larsen & Son	17,666	16,790
Dreyfuss Bros.	16,516	16,327
R. C. Stickle (low)	14,472	13,786

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STORES—1 story, frame, $5,000. Yolanda, Marin Co., Cal. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Will contain two stores. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans being prepared.

WATER SYSTEM CONSTRUCTION—Cost not stated. Cloverdale, Sonoma Co., Cal. Engineer, Town Engineer, Cloverdale. Owners, Cloverdale. Bids will be opened on March 25th at 12 noon for furnishing and laying 1868 feet of water pipe as follows: 600 feet of 12-inch; 600 feet of 10-inch and 668 feet of 8-inch with the necessary fittings and valves. The pipe and fittings will be furnished on board cars at the railroad, and the contractor will transport the same to place of use. The pipe is to be trench laid in as straight a line as possible, and at no point less than 2 feet below the surface ground. The contractor will excavate the trench and fill same after the pipe is laid. Also, for furnishing f. o. b. Cloverdale, 1900 feet of hot asphaltum-dipped, lap-welded pipe with the necessary couplings attached as follows: 600 feet of 12-inch, weight 31 pounds per foot; 600 feet of 10-inch, weight 2 ½ pounds per foot; 700 feet of 8-inch, weight 15½ pounds per foot. Also, one 10-inch gate valve, tested to 200 pounds; 1 6-inch gate valve tested to 200 pounds; 1 10x4 inch tee; 2 6x8 inch tees; 1 8x8 inch cross; 1 reducer coupling, 12 to 10 inch; 1 reducer coupling, 10 to 8 inch; 3 8 to 6 inch bushings; 3 6-inch plugs. All pipe and fittings must be of first class material in perfect condition.

WATER SYSTEM—Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, J. H. Dockweiler, Richmond. Owners, City of Richmond. Directors of the Richmond Municipal Water Commission are considering three immense water supply projects for this city following an exhaustive report submitted to the commission on all three projects by J. H. Dockweiler, water expert. The supply projects being considered are Marin watershed supply at a cost of $2,500,000, 12 miles of piping and reservoir included. Sacramento and San Joaquin River supply from False River, $3,000,000; 40 miles of pipe line, pumping stations, filter plant and reservoir included. Snow Mountain project, 150 miles of piping, reservoir and distributing system, $1,150,000. Intake to be located near Clear Lake. No final action will be taken by the commission until the latter part of April at which time all projects will have been fully investigated.

STREET FLUSHER AND ENGINE—Cost not stated. Rio Vista, Solano Co., Cal. Engineer, Town Engineer, Rio Vista. Owners, Town of Rio Vista. Bids will be received on April 6th at 8 p. m. for furnishing the following supplies to be used for work upon the streets of said town: One Uniform Pressure Power Flusher for flushing trash and other foreign substances from the streets, equipped with Timken Roller Bearings, a four-cylinder gasoline engine not less than 30 horsepower, centrifugal pump, two flusher heads and one sprinkler head.

HIGHWAY IMPROVEMENT — Cost not stated. Fairfield, Solano Co., Cal. Engineer, County Surveyor, Fairfield. Owners, Solano County. At the last session of the County Board of Supervisors plans and specifications for grading and macadamizing the county road between Vallejo and Benicia, in the Third District, were approved and the Clerk was directed to advertise for bids for performing the work, such bids to be opened and considered at the meeting of the Board to be held on April 3rd, 11 a. m. Plans for the work may be had from the County Clerk at Fairfield.

FILLING AND SEWER LATERALS—Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. The City Council received but two bids for the filling and installing of sewer laterals and sump in the Canal subdivision. Action was laid over for one week when the contract will probably be awarded. The bids received were: George W. Cushing, 420 Macdonald avenue, Richmond, $80,342.20; Richmond Dredging Co., 137 Washington avenue, Richmond, $86,447.50. Further mention will be made of this work when award of contract is made.

SUBWAY AND SEWER CONSTRUCTION — $204,350. Richmond, Contra Costa Co., Cal. Plans for the improvement of the Macdonald avenue subway, the construction of a storm sewer to drain property between 10th and 23rd streets, and the installation of a concrete ditch parallel to the Southern Pacific tracks for handling of storm water, have been submitted by City Engineer H. D. Chapman to the City Council for approval. The subway plans call for the installation of new girders, the raising of the sidewalk to a height of 5 feet and lessening of grade of both approaches at a cost of $9,350; the installation of the 10th street storm sewer, which will empty into the canal will cost $115,000, while the drainage ditch for storm waters along the railroad tracks will be put in at a joint cost of $50,000. Action will be taken by the Council at their next meeting.

BRIDGE CONSTRUCTION—Cost not not stated. Colusa, Colusa Co., Cal. Engineer, County Surveyor, Colusa. Owners, Colusa County. The Colusa County Supervisors are anxious to have the joint bridge at Grimes built as soon as possible and adopted the following resolution, a copy of which has been sent to the Sutter County Supervisors:

"Resolved, That the County Surveyor shall immediately proceed in conjunction with the County Surveyor of Sutter County, in all preliminary matters pertaining to said Grimes bridge, and shall proceed with the necessary surveys and general engineering duties necessary to meet the requirement of the United States Engineer's office governing the erection of structures of this character."

It is probable that the Sutter County Supervisors will take action at their next meeting.

ROAD IMPROVEMENT — Cost not stated. San Rafael, Marin Co., Cal. Engineer, none. Owners, City of San Rafael. The improvement of the Toll road within the city limits was discussed at the last meeting of the Council. Arthur Loudon, division engineer of the State Highway Commission, inspected the Toll road and gave the Council his version of the most practical manner of improving the road. He was of the opinion that a blanket of cement on this marsh road might have a tendency to make the road sink in places and thought the most feasible plan would be to macadamize the road. Action was deferred until the next meeting of the Council.

COURT HOUSE LIGHT FIXTURES—Cost not stated. San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. Bids will be received up to April 4th for furnishing and installing lighting fixtures in the County Court House. Plans can be secured from the County Clerk.

HOTEL ADDITION—2 story, frame, $5,000. Suisun, Solano Co., Cal. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owner, Suisun Hotel. An addition of one story will be made and the present building altered. Included in the work will be carpentry work, plastering, painting, plumbing and electric work. Plans are being prepared.

STORES AND APARTMENTS — 2 story and base, frame, $6,000. Yolanda, Marin Co., Cal. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name not given. Will contain two stores and two apartments of three rooms each. Interior finish pine. Patent store fronts. Wall beds. Exterior covered with cement plaster. Plans being prepared.

HOSPITAL COTTAGE — 1 story, frame and concrete. Cost not stated. San Rafael, Marin Co., Cal. Architect, J. W. Dolliver, Royal Insurance Bldg., S. F. Owners, Marin County. Designed for a nurses' home. Interior finish pine and redwood. Some hardwood floors. Furnace heat and open fire place. Mantel tile and brick. Exterior faced with cement plaster. Plans being prepared.

HOSPITAL COTTAGES—2, 1 story and base, frame and concrete. Cost not stated. Napa, Napa Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be opened on April 17th for the construction of two hospital cottages at the State Hospital at Napa. One building will be for the females and the other for males. Interior finish pine and redwood. Central heating systems. Exteriors covered with rustic and shingles. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

Contracts Awarded.

STREET IMPROVEMENT—Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Contractors, Hutchinson Co., 17th and Franklin streets Oakland. Contract private.

State Receives Bids For Nursery Cottage.

Carnahan & Mulford Low For Girls' Nursery Building to be Erected at Eldridge State Hospital.

(By Special Wire.)

SACRAMENTO, Cal., March 14th, 1916—The following bids were opened by the State Department of Engineering for the construction of a one-story and basement frame and concrete building for the girls' nursery to be erected at the Eldridge State Hospital. Carnahan & Mulford, 45 Kearny street, San Francisco, presented the low figures. All bids were referred to the State Architect. A complete list of the bids received follows:

Nursery Building.

Carnahan & Mulford	$19,481.00
Louis Cereghino & Son	19,940.00
Geo. W. Boxton & Son	20,472.00
L. G. Bergren & Son	21,472.00
Welsh Bros & Hannaman	21,897.00
M. P. Mortenson	22,479.00
Howard S. Williams	22,878.00
Bert T. Owsley	23,183.00
The Bailey-Comstock Co.	23,358.70
Neil A. McLean	23,700.00
Thurston Co.	23,975.00
McShechy Bros.	24,728.00

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CONSTRUCTION — Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Bids will be opened on March 25th at 10:30 a. m. for constructing Highway No. 1, Division No. 3 and Highway No. 1, Division No. 8, Section No. 1 (Lemoore to Stratford). The quantities to be bid on are as follows: (1) 9,500 cubic yards of excavation (including borrow); (2) 996,273 square feet of 2½-inch base, (surface area); (3 or 4) 996,273 square feet of 1½-inch topeka or Warrenite top; (5) 360 lineal feet of standard guard fence.

PAVING—Cost not stated. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. The Board of Trustees at their last meeting took up the south Bridge street paving again and ordered plans and specifications, adopted them at the same time and at once passed the resolution of intention. Bids on this work were opened a few weeks ago, but the low bidder stated he would lose money on the work and he was released from his contract.

STREET IMPROVEMENT—Cost as follows. Kingsburg, Fresno Co., Cal. Engineer, City Engineer, Kingsburg. Owners, City of Kingsburg. Two bids were received by the Trustees for the improvement of Simpson street. The bids were for grading the street and laying a 21-foot concrete highway along the center thereof, the concrete to be furnished by the county. The bidders were: Johnson Bros., Kingsburg, $8,949; W. A. Kettlewell & Sons, Kingsburg, $9,500. Bids were taken under advisement.

STREET IMPROVEMENT—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. At the last meeting of the City Council the City Engineer was directed to prepare plans and specifications for the grading and oiling of I street from 4th to 7th; 14th street from C to F; 13th street from C to D and D street from 14th street to California avenue. The streets will be graded at the expense of the property owners and the city will then oil and care for them.

RESIDENCE — 1 story and base, frame, $1,200. Fresno, Fresno Co., Cal. Architect, none. Owner, L. P. Martin, 216 Isabella street, Fresno. Location, Arlington Heights. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owners, Hart and Buwalda, Fresno. Location, East Fresno. Will contain seven rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,400. Fresno, Fresno Co., Cal. Architect, none. Owner, W. S. Halliday, Fresno. Location, Iowa avenue. Will contain six rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,200. Fresno, Fresno Co., Cal. Architect, none. Owner, E. F. Daw, Fresno. Location, Inns Addition. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

FURNISHING CEMENT — Cost not stated. Fresno, Fresno Co., Cal. Engineer, County Surveyor, Fresno. Owners, Fresno County. Bids will be received until April 5th at 10 a. m. for furnishing the County of Fresno with 1,700 barrels of Portland cement f. o. b. Kingsburg, Cal., in the original packages with the brand and name of manufacturer plainly marked thereon at the time the delivery is made at Kingsburg, said Portland cement shall conform to the standard specifications for Portland cement adopted by the American Society for Testing Materials August 16, 1909, and amendments supplemental thereto and amendatory thereof. If cement is delivered in cloth bags all such cloth bags to be returned to the bidder f. o. b. Kingsburg.

ROAD CONSTRUCTION — Cost not stated. Fowler, Fresno Co., Cal. Engineer, C. P. Jensen, Fowler. Owners, City of Fowler. At a meeting of the Board of Trustees of Fowler at a special called session, passed a resolution instructing C. P. Jensen, civil engineer of Fresno, to draw plans and specifications for the construction of a link in the State highway, connecting the ends of the highway at the northwest and southeast ends of the city. The paving is to be standard width, wider than the highway outside the city limits.

STREET IMPROVEMENTS—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Petitions for paving certain streets have been secured from the City Manager's office and are now in ciculation. The petition for the paving of A street between 19 th and 21st streets is being liberally signed. The paving of this thoroughfare is the first under the new plan of making the roadway 40 feet wide, with 14 feet parking space on either side. Some 21 feet of space between the property line and the curbing. It is also proposed to pave the alleys between A and B streets and 20th and 21st streets.

IRRIGATION DAM—Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer Hermann, Modesto. Owners, Modesto Irrigation District. Peart Bros, the contractors on the construction of dam No. 1 of the Modesto Irrigation District's Dallas reservoir, have thrown up their contract. What action will be taken by the district is not known at this time.

Contracts Awarded.

SCHOOL—1 story and base, brick, $12,678. Wolters, Fresno Co., Cal. Architect, Ernest Kump, Rowell Bldg., Fresno. Owners, Wolters School District Contractor, James L. Daly, Griffith Bldg., Fresno. Contract price, $12,678.

ROAD CONSTRUCTION—$34,945. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus Co. Contractors, F. R. Ritchie & Co., Chronicle Bldg., S. F. Contract price, $34,945.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

STREET REPAIRS—$5,000. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. An ordinance has been passed by the City Council appropriating $5,000, or so much thereof as may be necessary, to pay for the necessary work and labor and the necessary materials for repairing the asphalt pavement on the following streets in the City of Stockton, in accordance with the plans and specifications adopted: Center street from Weber avenue to South street; El Dorado street from Main street to North street; Weber avenue from Commerce street to East street; Hunter street from Weber avenue to Washington street; Washington street from Hunter street to American street; Market street from Center street to East street; California street from Hazelton avenue to North street; Sutter street from Channel street to Lafayette street.

RECLAMATION WORK—Cost not stated. Oroville, Butte Co., Cal. Engineer, E. A. MacKusick, Oroville. Owners, Reclamation District No. 833. The Trustees of Reclamation District 833 have filed with the Supervisors the report of the district engineer, E. A. MacKusick, including plans, specifications and estimates of the district. The report shows the district includes 38,437.34 acres. A system is being planned to take care of the maximum run-off of the district, determined by the rainfall records, and it is proposed to construct 129.6 miles of canals. The main ditches will be 10 feet wide at the bottom. Three appraisers have been appointed by the Board to estimate the comparative benefits of the drainage to the various lands included. They are J. M. Williams, Arthur Sweetser and H. A. Woodworth. Further mention will be made of this work.

HIGHWAY CONSTRUCTION — Cost not stated. Roseville, Placer Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be opened on April 23rd at 2 p. m. for constructing about 630 feet of highway, including two abutments for an underground crossing.

SCHOOL—2 story and base. Class C construction, $35,000. Lodi, San Joaquin Co., Cal. Architects, Stone & Wright, Stockton. Owners, Lodi School District. Eight contractors tendered bids for the construction of the new grammar school. The building will be of brick and concrete construction. The School Board opened bids and, although no contracts were awarded, Philbrick & Colvin of Turlock will probably get the general contract, as their bid was $31,728. The next low bid was that of Teichert & Ambrose, Sacramento, who bid $33,980. The highest bid was $40,766. The bids for the heating ranged from $3,190, bid by Hately & Hately, 219 O street, Sacramento, up to $5,736.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, W. D. McKoy, 2039 E street, Sacramento. Location, 3101 E street. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, H. G. Birdsall, 1420 13th street, Sacramento. Location T street between Sherman and Wheeler. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

BRIDGE APPROACH—Steel, $2,182. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contractor, Thomas Engelhart, 639 16th street, Eureka. Contract price, $2,182. Contract covers the approach to the highway bridge at Dyerville.

LOS ANGELES & SOUTHERN CALIFORNIA.

STREET PAVING, ETC.—Cost as follows. El Monte, Los Angeles Co., Cal. Engineer, City Engineer, El Monte. Owners, City of El Monte. The S. C. Contracting Co., Washington Bldg., L. A. submitted the lowest bid at $13,021.61 for the improvement of a portion of Tyler street. The next lowest bid was submitted by the Matthews Construction Co. at $13,442.04. The highest bid by the Coast Construction Co. at $18,295.28.

BRIDGES—Steel and reinforced concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Supervisors have adopted supplementary specifications for the La Crosse and Casitas bridges, the county to supply the steel. Bids were advertised for to be opened on April 6th at 2 p. m. One of these bridges, that at La Crosse, is intended as a part of the county highway, that into the Ojai Valley, and will span the San Antonio creek. The Casitas bridge is that over the Ventura River and leading into Foster Park. Plans may be had from the County Clerk at Ventura.

OVERHEAD CROSSING — Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor Owen O'Neill, Santa Barbara. Owners, Santa Barbara County. County Surveyor O'Neill reports that he has completed plans and specifications for the overhead crossing on the State highway at Bell Canyon, which are now awaiting the approval of the State Engineer's office. On approval of plans bids will be called.

RESIDENCE—2 story and base, hollow tile, $30,000. Pasadena, Los Angeles Co., Cal. Architects, Goeber & Gates, 72 North Raymond avenue, Pasadena. Owner, Earl V. Armstrong, 1144 South Hope street, L. A. Location, Oak Knoll. Will contain 15 rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water system, hot water circulating system and vacuum cleaning. Open fire places and tile or brick mantels. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be carried on by Day Labor under the direction of the architects.

RESIDENCE—2 story and base, hollow tile. Cost not stated. Pasadena, Los Angeles Co., Cal. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, Dr. S. J. Tanner. Location, Columbia street and Grand avenue. Will cover an area of 59 by 38 feet with a wing 35 by 17 feet. There will be 15 rooms, four baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, hot water supply and vacuum cleaning. Open fire places and tile mantels. Exterior faced with cement plaster. Bath rooms finished in tile. Plans complete and figures being taken.

Contracts Awarded.

ROAD IMPROVEMENT — $62,491.12 Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Contractor, Oscar Ford, Riverside. Contract price, $62,491.12. Section C of the Mint Canyon road.

ROAD IMPROVEMENT—$15,875. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Contractor, S. C. Contracting Co., Washington, Bldg., L. A. Contract price, $15,875.

PORTLAND AND OREGON

REFRIGERATION BUILDING — 7 story and base, reinforced concrete, $200,000. Portland, Ore. Engineer, Engineering Dept. Union Meat Co., Chicago, Ill. Owners, Union Meat Co. Location in the stockyards. Will cover an area of 74 by 122 feet. Construction fireproof No interior finish. Special refrigerating machinery not included. Exterior faced with cement plaster. Plans being prepared. Further mention to be made of the work.

SEATTLE AND WASHINGTON

STORES AND LOFTS—4 story and base, reinforced concrete, $80,000. Seattle, Wash. Architects, Beezer Bros., Northrn Bank Bldg., Seattle. Owner, F. J. Nestor, Farragut Apts., Seattle. Location, Westlake and Virginia Sts. Will contain a number of stores on the first floor. Upper floors arranged for lofts. Interior finish pine. Steam heat, elevator service and oil burning equipment. Metal window sash and frames. Patent store fronts. Exterior faced with cement plaster. Plans being prepared.

MAUSOLEUM—1 and 2 story, reinforced concrete, $450,000. Seattle, Wash. Architect, W. Marbury Somerville, White Bldg., Seattle. Owners, Northwestern Mausoleum Co., Stuart Bldg., Seattle. Will be of fireproof construction and will contain 2,000 crypts. Interior finish marble and plaster. Ornamental iron and bronze. Art glass. Exterior faced with granite and cement plaster. Plans being prepared.

POST OFFICE—2 story and base, brick, steel and stone, $80,120. Kalispell, Mont. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Bids opened by the supervising architect for the construction of the U. S. post office at Kalispell, Mont., show Welsh Bros. & Hannaman of Oakland, Cal., low bidders at $80,120, using limestone, and $79,320, using sandstone.

Contracts Awarded.

MAUSOLEUM — 1 story, reinforced concrete, $250,000. Spokane, Wash. Architect, W. Marbury Somerville, White Bldg., Seattle. Owners, Northwestern Mausoleum Co. Contractor, F. E. Peterson, Spokane. Contract price, $250,000.

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

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CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF AUGUST 24, 1912.

of BUILDING AND ENGINEERING NEWS published weekly at San Francisco, California for April 1st, 1916.

Editor, L. A. Larsen, 560 Mission St., San Francisco.

Managing Editor, L. A. Larsen, 560 Mission St., San Francisco.

Business Manager, L. A. Larsen, 560 Mission St., San Francisco.

Publisher, L. A. Larsen, 560 Mission Street, San Francisco.

Owner, L. A. Larsen, 560 Mission St. San Francisco.

Known bondholders, mortgagees, and other security holders, holding 1 per cent or more of total amount of bonds, mortages, or other securities: None.

L. A. LARSEN, Owner.

Sworn to and subscribed before me this 20th day of March, 1916.

CHALMER MUNDAY,
Notary Public in and for the City and County of San Francisco, State of California.
(My commission expires Oct. 18, 1917.)
[SEAL]

MORE AMERICAN GOODS FOR MANCHURIA.

The sale of considerable quantities of American dried fruits to a local society of consumers, of electrical wire to the Chinese Eastern Railway, and of electrical stoves, electrical pumps for coal mines, and briquet machinery to a Russian coal concessionaire is reported.

May Save Oil Men Expenditure of Many Thousands of Dollars in Fruitless Drilling.

ed by Consul C. K. Moser, of Harbin, China, who states that these results were secured through personal negotiations between buyer and seller at the consulate. Consul Moser adds that negotiations that promise success are under way for the purchase of American brick machinery by an important Russian firm in his city.

NEGATIVE INFORMATION NOT WITHOUT VALUE.

"Forewarned, forearmed" applies to oil-well drilling as much as to weather predictions. As the cost of putting down a well is great, drilling should preferably not be undertaken in a new region until a careful geologic examination of the surface has been made and the most favorable area determined. The geologist can not tell from a study of the surface alone whether or not oil occurs beneath the surface, but he can designate areas in which it is extremely unlikly that oil may occur and other areas in which the structure is favorable to the accumulation of oil. The United States Geological Survey has just published a report on the Cuyama Valley, Cal., which lies about 100 miles northwest of Los Angeles, between the very productive Sunset oil field on the northeast and the Santa Maria field on the southwest. The report, which is based on field work done in 1914, describes the geologic formations and structure in detail, points out the possible sources of oil and the conditions unfavorable to its accumulation, and gives all the evidence for the conclusion that the chance for the development of a commercially successful oil field in Cuyama Valley is poor. It is possible that small pools may be found in a few areas, and these areas are pointed out. Two wildcat wells had been drilled before the field was examined by the survey geologist, W. A. English, who has written the report. This report may be obtained free by applying to the Director of the U. S. Geological Survey, Washington, D. C., for a copy of Bulletin 621-M.

INSPECTION OF SOUTHERN PACIFIC LINES.

Vice-President and General Manager W. R. Scott, Assistant General Managers D. W. Campbell and H. V. Platt and Assistant Chief Engineer J. Q. Barlow of the Southern Pacific Company have announced the results of the last annual inspection of Pacific System lines. The Sacramento division, of which J. H. Dyer is superintendent, received the highest number of "perfect" marks; the Sacramento district, of which J. O'Donnell is roadmaster, received the highest number of the roadmaster's districts and the "best" section was declared to be No. 8, San Jose District, Coast Division of which L. B. Stacy is foreman.

The stations winning sufficient merit marks to be designated as "perfect" were those at Albany, Berkeley (University Avenue), Brighton, Burlingame, Central Point, Chico, Coalinga, Crafton, Davis, Eugene, Fernley, Folsom, Forest Grove, Grants Pass, Halsey, Hazen, Klamath Falls, Los Angeles, Medford, Menlo Park, Monroe, Monterey, Nanzel, Oakland (1st and Broadway) and Oakland (Sixteenth St.) Oceano, Oroville, Oxnard, Pixley, Porterville, Redlands Jct., Richmond, Rogue River, Roseburg, San Francisco, San Luis Obispo, Santa Barbara, Sisson, St. Helena, Tipton, Tulare, Ventura, Verdi and Watsonville Jct.

Roadmaster O'Donnell received a gold medal for his district, and Section Foreman Stacy received one for the maintenance of his section. Silver medals were awarded to forty-eight section foreman, forty-seven station agents, twenty-one pumpers at pump houses, seven pumpers at fuel oil plants and eleven engineers at power plants for winning inspection honors.

CARSON VALLEY LANDS WILL SOON BE OPENED.

CARSON CITY.—The secretary of the interior, Franklin K. Lane, has officially announced the opening of lands on the Carson-Truckee project, which comprises 55 public land farm units of an acreage of 2842 and 2897 acres of privately owned lands, which are made subject to water right regulation. Homestead entries of the public land farm units may be made on and after March 9 at the Carson City land office Every homestead application must be accompanied by a certificate of the project manager of Fallon, Nev., showing that water right application, accompanied by the first installment of water right charges in connection with the land applied for, has been filed in his office. The water right charges per acre of irrigation land are of two kinds: A construction charge of $60 per acre of irrigable land for the building of the irrigation system, payable as hereinafter provided, and an annual charge for operation and maintenance payable on March 1 of each year for the preceding irrigation season, and shall be the same as announced for the remaining lands of the project.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
649	Caldwell	Caldwell	3000
650	Ernst	Cleese	1920
651	Gallagher	Bishop	8000
652	Nilsson	Lindberg	2000
653	Bowers	Daspit	5000
654	Walsh	Walsh	400
655	Warden	Warden	1400
656	Keck	Petersen	7032
657	Same	Gaspard	28850
658	Seyms	St. Francis Riley	5000
659	Part. Lunch	Ostlund	2000
660	Nelson	Nelson	30000
661	Morill	Chick	1950
662	Greslot	McGlumphy	2207
663	Kennedy	Keenan	6300
664	Henry	Holmes	3800
665	Brusco	Garibaldi	2200
666	Levy	Bjors	2500
667	Pacific G & E.	Wstrn Pipe	5750
668	Savage	McKay	5467
669	Berry	Gilley	1693
670	Farce Co.	Schultze	9000
671	3rd Ch of Christ	Leiter	9476
672	Fry	Pacific Wall Bed	1736
673	Gilmore	Gilmore	500
674	Donovan	Donovan	3000
675	S. F. Iron Wks.	Stoesser	700
676	Crane	Waterbury	1000
677	Myers	Britt	500
678	Rosenberg	Rosenberg	1000
679	Muller	Sturges	400
680	Boyer	Boyer	1200
681	Johnson	Rudometkin	450
682	Tobin	Rudometkin	500
683	Graff	Heaphy	600
684	Gerard Inv.	Owner	1000
685	Owl	Brumfield	400
686	Bergers	Brumfield.	800
687	Huber	Huber	400
688	Pacelli	Orri	400
689	Gilbert	McSheehy	900
690	Mitchel	Kelly	500
691	Lobster Palace	Owner	500
692	Elko Cafe	Novelty	400
693	Costello	Feerick	2900
694	Hecht Invst.	Central Ir	9000
695	Same	Asbestos Mtl	2638
696	Same	Barrett	16735
697	Gray	Hamill	3050
698	Gilbert	McSheehy	1050
699	Williams	Falvey	6000
700	Bellegarde	Metter	3500
701	Van Nuys	Barrett	21900
702	Hyman	Gilchrist	500
703	Frediani	Cuneo	550
704	Peterson	Peterson	400
705	McKenzie	Prout	800
706	McNern	Olson	400
707	Knudsen	Knudsen	1400
708	Lochutoff	Rudomentsiff	2100
709	Whitney	Parkside	3560
710	Blinn Est	Chalmers	3225
711	Same	Cal Steel	15510
712	Relief	Hall	5250
713	Sudden	Graper	1760
714	Rourke	Grant	8400
715	Boyd Invst	Johnson	5746
716	Wilson	Maundrell	3100
717	Wilson	Otis	2605
718	Myers	Britt	9800
719	Muller	Muller	5000
720	Bode	Peterson	5000
721	Musto	Biller	1900
722	Nelson	Nelson	2500
724	Nelson	Nelson	2500
725	Nelson	Nelson	2500
726	Nelson	Nelson	2500
727	Nelson	Nelson	2500
728	Nelson	Nelson	2500
729	Nelson	Nelson	2500
730	Fox	Fox	400
731	Cazes	Dehrieu	550
732	Allred	Allred	1950
733	Allred	Allred	1950
734	Angelos	Angelos	2000
735	City Invst	McLaran	3601
736	Same	Maundrell	1400
737	Devencenzi	Amoroso	7970
738	Devencenzi	Amoroso	8392

FRAME RESIDENCE

(649) W FORTY-THIRD AVE 130 N Fulton. Two-story and basement frame residence.

Owner.....Caldwell & Sons, 110 Jessie San Francisco.

Architect . .D. C. Coleman, 625 Market, San Francisco.

Day's work. COST, $3000

FRAME DWELLING

(650) W THIRTIETH AVE 250 S Taraval. One-story and basement frame dwelling.

Owner.....Theo. Ernst, 1212-A Cole, San Francisco.

Architect ...None.

Contractor..Geo. F. Cleese, 622 36th Ave., San Francisco.

COST, $1920

CONCRETE APARTMENTS

(651) E LEAVENWORTH 137 S Post. Three-story and basement concrete (6) apartments.

Owner.....J. L. Gallagher, 3116 Clay, San Francisco.

Architect ...None.

Contractor..W. Bishop, 26 Montgomery, San Francisco.

COST, $8000

FRAME DWELLING

(652) W THIRTY-THIRD AVE 100 N Balboa. One and one-half-story and basement frame dwelling.

Owner.....N. F. Nilsson, 355 Coleridge San Francisco.

Architect ...None.

Contractor..Lindberg Bros., 257 Surrey, San Francisco.

COST, $2000

ALTERATIONS

(653) NO. 515 BUSH. Alter Class "C" hotel.

Owner.....H. O. Bowers, Premises.

Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.

Contractor..Felix Daspit, 1544 Union, San Francisco.

COST, $5000

ALTERATIONS

(654) S LINCOLN WAY 32½ W 4th Ave. Alter for private garage.

Owner.....P. J. Walsh, 319 Lincoln Way, San Francisco.

Architect ...None.

Day's work. COST, $400

FRAME DWELLING

(655) S VALLEY 130 W Castro. One- and one-half-story and basement frame dwelling.

Owner.....Fred Warden, 354 Sussex, San Francisco.

Architect ...None.

Day's work. COST, $1400

CLASS "C" HOTEL

(656) NW O'FARRELL & LEAVENworth N 25-9xW 80. Plumbing and heating for six-story Class "C" hotel.

Owner.....F. C. Keck, 943 Market, San Francisco.

Architect...Edw. T. Foulkes and Willis C. Lowe, Crocker Bldg., San Francisco.

Contractor..Petersen-James Co., 710 Larkin, San Francisco.

Filed Mar. 11, '16. Dated Feb. 7, '16.

On 10th of each month..... 75%

Usual 75 days..... 25%

TOTAL COST, $7032

Bond, none. Limit, 120 days. Forfeit, none. Plans and specifications filed.

(657) ALL WORK EXCEPT PLUMBing and heating on above.

Contractor..E. C. Gaspard & Co.

Filed Mar. 11, '16. Dated Mar. 2, '16.

Payments same as above.....

TOTAL COST, $28,850

Bond, $15,000. Sureties, Chas. E. Reinhart and John Dudfield. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

(658) LOT 11 BLK 2, St. Francis Wood Two-story and basement frame residence.

Owner.....R. W. Seyms, 64 San Benito Ave., San Francisco.

Architect ...H. H. Gutterson, 80 Post, San Francisco.

Contractor..St. Francis Home Bldg. Co., 80 Post, San Francisco.

COST, $5000

ALTERATIONS

(659) NO. 86 MARKET. Alter interior for lunch room.

Owner.....Particular Lunch Co., 1901 Bryant, San Francisco.

Architect ...None.

Contractor..Ostlund & Johnson, 1901 Bryant, San Francisco.

COST, $2000

BRICK APARTMENTS

(660) NW FOLSOM & NINTH. Three-story and basement brick (22) apartments.

Owner.....Andrew Nelson, Fulton & Gough, San Francisco.

Designer ...Wm. Wakeman.

Day's work. COST, $30,000

FRAME DWELLING

(661) W EIGHTEENTH AVE 175 S Judah. Two-story and basement frame dwelling.

Owner.....Geo. H. Morill, 16 Henry, San Francisco.

Architect ...None.

Contractor..E. A. Chick, 75 Sutter, San Francisco.

COST, $1950

FRAME RESIDENCE

(662) E THIRTY-THIRD AVE 275 N Geary. Two-story and basement frame residence.

Owner.....E. H. Greslat, 6816 Geary, San Francisco.

Architect ...None.

Contractor..McGlumphy & Agee, 2532 Geary, San Francisco.

COST, $2207

FRAME FLATS

(663) E THIRTEENTH AVE 125 N Clement. Two-story and basement frame (2) flats.

Owner.....E. P. Kennedy, 63 7th Ave., San Francisco.

Architect ...None.

Contractor..H. C. Keenan, 300 Webster San Francisco.

COST, $6300

FRAME RESIDENCE
(664) E SIXTEENTH AVE 320 N Quintara. Two-story and basement frame residence.
Owner.....W. P. Henry, 307 Foxcroft Bldg., San Francisco.
Architect ...None.
Contractor..Holmes & Haskell, 402 Hearst Bldg., S. F.
COST, $3800

FRAME DWELLING
(665) N KINGSTON 74 E San Jose Ave. One-story and basement frame dwlg.
Owner.....G. B. Brusco, 833 San Jose Ave., San Francisco.
Architect ...None.
Contractor..V. Garibaldi, 14 Crane, San Francisco.
COST, $2200

FRAME BUILDING
(666) LOT 24 BLK 7 Crocker Amazon Tract, being W Lisbon 150 N Geneva. All work except electric work and fixtures for one and one-half-story frame building.
Owner.....Maurice and Lily Levy, 68 Walter, San Francisco.
Architect ...Victor Bpors.
Architect ...Victor Bjors. San Francisco.
Filed Mar. 13, '16. Dated Mar. 8, '16.
Frame up $625
Brown coated 625
Completed and accepted..... 625
Usual 35 days..... 625
TOTAL COST, $2500
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

SMOKE STACK
(667) BLK BDED BY HUMBOLDT, 23rd, Georgia and Louisiana. Take down old smoke stack and erect new smoke stack at Station "A."
Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect ...None.
Contractor..Western Pipe & Steel Co. of California, 444 Market, San Francisco.
Filed Mar. 13, '16. Dated ——.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $5750
Bond, $3000. Sureties, Guardian Casualty & Guaranty Co. Limit, 9 weeks after Feb 11, 1916. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(668) S CLEMENT 32-6 W 12th Ave W 25xS 100. All work for two-story frame flats.
Owner.....Walter R. and Daisy D. Savage, 338 4th Ave., S. F.
Architect ...Hantzsche & McKay, 438 24th Ave., San Francisco.
Contractor..Geo. M. Hantzsche & Frank O. McKay, 438 24th Ave., San Francisco.
Filed Mar. 13, '16. Dated Mar. 9, '16.
2nd story joists set.....$1025.25
Frame completed 1025.00
Brown coated 1025.00
Completed and accepted..... 1025.00
Usual 35 days..... 1366.75
TOTAL COST, $5467.00
Bond, none. Limit, 90 days after Mar. 12, 1916. Forfeit, none. Plans and specifications filed.

STEAM HEATING
(669) NW SACRAMENTO AND MAPLE. All work for steam heating for bldg.
Owner.....W. B. Berry by W. T. Commary & Son, 742 Market, San Francisco.
Architect ...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..Gilley Schmid Co., Inc., 198 Otis, San Francisco.
Filed Mar. 13, '16. Dated Mar. 9, '16.
All piping roughed in.....$250
Tanks, boilers and heaters set... 450
Completed and accepted..... 570
Usual 35 days..... 423
TOTAL COST, $1693
Bond, limit, forfeit, none. Plans and specifications, none.

HULL OF MOTOR BOAT
(670) NO LOCATION GIVEN. All work for hull of motor boat.
Owner.....Angelo Farce Co.
Architect ...None.
Contractor..Schultze & Schultze.
Filed Mar. 13, '16. Dated Mar. 8, '16.
When contract is signed.....$1800
Vessel in in frame..... 1800
Sealed and deck framed..... 1800
When planked 1800
Launched and finished..... 1800
TOTAL COST, $9000
Bond, none. Limit, 3½ weeks. Forfeit, none. Specifications only filed.

ITERIOR FINISH ETC.
(671) N HAIGHT 137-6 E Central Ave E 75xN 137-6. Interior finish and other carpenter work (except rough carpenter work already in place) for church building.
Owner.....Third Church of Christ Scientist, Premises.
Architect ...Edgar C. Mathews, Phelan Bldg., San Francisco.
Contractor..E. T. Leiter & Sons, Inc., 251 Post, San Francisco.
Filed Mar. 13, '16. Dated Mar. 3, '16.
On or before 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $9476
Bond, $9476. Surety, Globe Indemnity Co. Limit, 120 days. Forfeit, none. Plans and specifications filed.

WALL BEDS, ETC.
(672) NW POLK AND BUSH. All work for patent Pacific wall beds, etc. for St. Dunston Apartments.
Owner.....Estate of Sarah Fry.
Architect ...None.
Contractor..Pacific Wall Bed Co., 742 Market, San Francisco.
Filed Mar. 13, '16. Dated Feb. 29, '16.
Completed 75%
Usual 35 days.....Balance
TOTAL COST, $1736
Bond, $870. Surety, U. S. Fidelity & Guaranty Co. Limit, forfeit, none. Plans and specifications filed.

ADDITION
(673) E THIRTEENTH 200 S Howard. Add to wagon shed.
Owner.....M. Gilmore, Premises.
Architect ...None.
Day's work. COST, $500

FRAME FLATS
(674) N SEVENTEENTH 25 E Prosper. Two-story and basement frame (2) flats.
Owner.....Mary A. Donovan, 470 Sanchez, San Francisco.
Architect ...None.
Day's work. COST, $3000

REPAIRS
(675) E SHOTWELL 160 S 14th. Repair for garage and shop.
Owner.....S. F. Iron Works, Inc., 34-45 Shotwell, San Francisco.
Engineer ...V. Dalton, 68 Post, S. F.
Contractor..Wm. P. Stoesser, 2849 Harrison, San Francisco.
COST, $700

ALTERATIONS
(676) SW BRANNAN AND SECOND. Install trusses and girders.
Owner.....Crane Co., Premises.
Architect ...None.
Contractor..Waterbury & Anderson, 47 St. Anne St., San Francisco.
COST, $1000

FOUNDATION
(677) N SUTTER 82-6 W Polk. Concrete foundation.
Owner.....A. A. Myers, 68 Post, S. F.
Architect ...Heiman & Schwartz, Merchants National Bank Bldg. San Francisco.
Contractor..O. W. Britt, 330 Ivy, S. F.
COST, $500

FRAME SHOP
(678) W ROSEMONT 140 N 14th. Two story frame shop.
Owner.....E. B. Rosenberg, 21 Rosemont Place, San Francisco.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(679) NO. 37 FIFTH AVE. Alter for private garage.
Owner.....P. J. Muller, Premises.
Architect ...None.
Contractor..Benj. Sturges, 3931 Geary, San Francisco.
COST, $400

FRAME DWELLING
(680) SE EDINBURG 150 N France. One-story and basement frame dwlg.
Owner.....Louis Boyer, 797 Vienna, San Francisco.
Architect ...None.
Day's work. COST, $1200

ALTERATIONS
(681) NO. 830 RHODE ISLAND. Alter and add to dwelling.
Owner.....A. Johnson, Premises.
Architect ...None.
Contractor..John Rudometkin, 871 Rhode Island, S. F.
COST, $450

ADDITIONS
(682) NO. 823 RHODE ISLAND. Add to and repair dwelling.
Owner.....Mrs. M. Tobin, Premises.
Architect ...None.
Contractor..John Rudometkin, 871 Rhode Island, S. F.
COST, $500

ADDITIONS
(683) NO. 39 SHIPLEY. Tar and gravel roof and add for shop.
Owner.....Graff Bros., Premises.
Architect ...None.
Contractor..J. J. Heaphy, 1721 Lombard, San Francisco.
COST, $600

FOUNDATION
(684) NE JONES AND SUTTER. Concrete foundation.
Owner.....Gerard Investment Co., 110 Sutter, San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Day's work. COST, $1000

ELECTRIC SIGN
(685) SW MISSION AND TWENTY-second. Electric sign.

Owner.....The Owl Drug Co., 614 Mission, San Francisco.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

ELECTRIC SIGN
(686) No. 856 MARKET. Electric sign
Owner....."Berger's," Premises.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $800

ALTERATIONS
(687) NO. 319 MADRID. Concrete foundation, add to and alter dwlg.
Owner.....Edw. I. Huber, 2706-A Mission, San Francisco.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(688) W MISSISSIPPI 250 S 20th. Move and raise flat.
Owner.....J. Paceli, 569 Mississippi, San Francisco.
Architect ...None.
Contractor..Jas. Orri, 2033 22nd, S. F.
COST, $400

ADDITION
(689) NO. 782 DOLORES. Add 2 rooms to dwelling.
Owner.....Mrs. R. Gilbert, Premises.
Architect ...None.
Contractor..McSheehy Bros., 73 Langton, San Francisco.
COST, $900

ALTERATIONS
(690) NO. 2456 THIRD. Alter restaurant.
Owner.....G. W. Mitchel, 2907 Baker, San Francisco.
Architect ...Wm. H. Armitage, 328 Montgomery, S. F.
Contractor..P. J. Kelly, 658 Elizabeth San Francisco.
COST, $500

ALTERATIONS
(691) NO. 243 O'FARRELL. Alter for cafe.
Owner.....Lobster Palace, Premises.
Architect ...Earl B. Scott, Humboldt Bank Bldg., S. F.
Day's work. COST, $500

ELECTRIC SIGN
(692) NO. 851 KEARNY. Electric sign.
Owner.....Elko Cafe, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

FRAME RESIDENCE
(693) E SEVENTEENTH AVE 200 N Balboa. Two-story and basement frame residence.
Owner.....Costello & Feerick, 204 San Carlos Ave., San Francisco.
Architect ...None.
Day's work. COST, $2900

STRUCTURAL STEEL
(694) N POST 159-9 W Van Ness Ave W 87-6xN 120. Structural steel for Class "A" garage building.
Owner.....The Hecht Investment Co., Kohl Bldg., S. F.
Architect ...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..The Central Iron Works, 651 Florida, San Francisco.
Filed Mar. 14, '16. Dated Mar. 10, '16.
Structural steel delivered.....$1500
Completed and accepted..... 2250
Usual 35 days..... 2250
TOTAL COST, $9000
Bond, $4500. Sureties, Anselmo F. Schuler and H. G. Natenstedt. Limit, 25 days after footings are ready for setting iron. Forfeit, $20. Plans and specifications filed.

(695) CORRUGATED ROOFING, metal flashings, gutters and ventilators on above.
Contractor..The Asbestos Protected Metal Co., 58 Sutter, S. F.
Filed Mar. 14, '16. Dated Mar. 10, '16.
Material delivered on ground.$1319.47
Completed and accepted..... 659.73
Usual 35 days..... 659.74
TOTAL COST, $2638.94
Bond, $1319.47. Surety, American Surety Co. Limit, as fast as required. Forfeit, $20. Plans and specifications filed.

(696) GENERAL MASON, PLUMBING and electric wiring on above.
Contractor..Barrett & Hilp, Sharon Bldg., San Francisco.
Filed Mar. 14, '16. Dated Mar. 10, '16.
On 3rd and 18th of each month 75%
Usual 35 days, balance..... 25%
TOTAL COST, $16,735
Bond, $8368. Surety, Hartford Accident & Indemnity Co. Limit, 70 days. Forfeit, $20. Plans and specifications filed.

FRAME RESIDENCE
(697) N TWENTY-FOURTH AVE 75 N California N 25xW 95. All work for two-story frame residence.
Owner.....John Gray, 2252 Clement, San Francisco.
Architect ...None.
Contractor..Thos. Hamill, 5535 Geary, San Francisco.
Filed Mar. 14, '16. Dated Mar. 14, '16.
Payments not given.....
TOTAL COST, $3050
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications, none.

ALTERATIONS
(698) NW TWENTY-FIRST AND DOLORES N 100 W 100 N 25 E 100 S 25; No. 782 Dolores. Alterations and additions to frame residence.
Owner.....Mrs. May B. Gilbert, Prem.
Designer ...W. P. Ranzoni, 2112 Castro San Francisco.
Contractor..McSheehy Bros., 47 Langton, San Francisco.
Filed Mar. 14, '16. Dated Mar. 11, '16.
Frame up $250
Brown coated 250
Finished and accepted..... 250
Usual 35 days..... 300
TOTAL COST, $1050
Bond, none. Limit, 45 days from Mar. 15. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(699) E MASONIC AVE 50 S Fulton S 25xE 90. All work for two-story frame residence.
Owner.....John W. Williams, 2033 Hyde, San Francisco.
Architect ...None.
Contractor..A. J. Falvey, 124 Clayton, San Francisco.
Filed Mar. 14, '16. Dated Mar. 14, '16.
Frame up and roof on.....$1125
Ready for plastering..... 1125
Finish on 1125
Accepted 1125
Usual 35 days..... 1500
TOTAL COST, $6000
Bond, none. Limit, 100 days from Mar. 15. Forfeit, $5. Plans and specifications filed.

FRAME FLATS
(700) N BERNARD 160 W Jones. Two-story and basement frame (2) flats.
Owner.....P. Bellegrade, Care California Market, S. F.
Architect ...Oliver Everett, 1940 Webster, San Francisco.
Contractor..L. Metter, 359 Capp, S. F.
COST, $3500

STORE BUILDING
(701) SE CALIFORNIA AND POLK — 137-6 right angles 111-2 — 137-6 th to beg. Removal of present building and construction of one-story store building.
Owner.....Susanna Van Nuys, Los Angelels, Cal.
Architect ...Heller & Wilson, Consulting Engrs., Mechanics' Institute Bldg., S. F.
Contractor..Barrett & Hilp, Sharon Bldg., San Francisco.
Filed Mar. 15, '16. Dated Mar. 4, '16.
Within 3 days after 1st and 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $20,990
Bond, $10,500. Surety, Hartford Accident & Indemnity Co. Limit, June 3, 1916. Forfeit, $23. Plans and specifications filed.

ALTERATIONS
(702) NO. 136 O'FARRELL. New front and minor changes.
Owner.....Hyman Bros., Kohl Bldg., San Francisco.
Architect ...None.
Contractor..Jas. Gilchrist, 248 Stevenson, San Francisco.
COST, $500

ALTERATIONS
(703) NO. 1609 FOLSOM. Alter for meat market and fruit store.
Owner.....Frediani Bros., Premises.
Architect ...None.
Contractor..John P. Cuneo, 5079 Mission, San Francisco.
COST, $550

ADDITION
(704) NO. 3028 CALIFORNIA. Add 1 story frame flat.
Owner.....Mrs. C. K. Peterson, Prem.
Architect ...None.
Day's work. COST, $400

INTERIOR FINISH
(705) SE BROADWAY & FILLMORE. Interior finish for social rooms and plumbing work.
Owner.....C. C. McKenzie, 1439 Sacramento, San Francisco.
Architect ...None.
Contractor..J. Prout, 2020 Turk, S. F.
COST, $800

BRICK FOUNDATION
(706) NO. 1545 HAMPSHIRE. Brick foundation, cement floor and wall and terrazzo steps, etc.
Owner.....F. McNern.
Architect ...None.
Contractor..A. E. Olson, 125 Jersey, San Francisco.
COST, $400

FRAME DWELLING
(707) S REGENT 275 E San Jose Ave. One-story and basement frame dwlg.

Owner.....J. Knudsen, 530 Banks, San Francisco.
Architect ...None.
Day's work. COST, $1400

FRAME FLATS
(708) NO. 2004 TWENTY-SECOND. Two-story and basement (2) flats and store.
Owner.....Alex Lochutoff.
Architect ...W. J. Cuthbertson, 328 Montgomery, S. F.
Contractor..— Rudomentsiff.
COST, $3100

FRAME RESIDENCE
(709) W TWENTY-SIXTH AVE 200 S Taraval S 25xW 120 O L 1171. All work for two-story frame residence.
Owner.....Therese E. Whitney, wife C. W.
Architect ...None.
Contractor..Parkside Home Bldg. Co., Crocker Bldg., S. F.
Filed Mar. 15, '16. Dated Mar. 13, '16.
Frame up $890
Brown coated 890
Completed and accepted..... 890
Usual 35 days..... 890
TOTAL COST, $3560
Bond, $1780. Sureties, Wm. Trebell, L. V. Riddle and Edwin Schwab. Limit, 100 days. Forfeit, $1. Plans and specifications filed.

CONCRETE WORK
(710) NW SECOND AND BRANNAN. Concrete and cement gun work for building known as Peck & Hills Bldg.
Owner.....Blinn Esate Co., Inc., 300 Brannan, San Francisco.
Engineer ...Maurice C. Couchot, 110 Sutter, San Francisco.
Contractor..H. A. Chalmers, Inc., 46 Kearny, San Francisco.
Filed Mar. 15, '16. Dated Mar. 11, '16.
On 1st and 15th each month.... 75%
Usual 35 days.....Balance
TOTAL COST, $3225
Bond, none. Limit, 35 days. Forfeit, none. Plans and specifications, none.

(711) FURNISHING AND SETTING steel frame on above.
Contractor..California Steel Co., 2nd and Harrison, Oakland.
Filed Mar. 15, '16. Dated Feb. 10, '16.
On 15th and 30th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $15,510
Bond, none. Limit, as rapidly as possible. Forfeit, plans and specifications, none.

FRAME RESIDENCE
(712) E FOURTH AVE 186-4 13-16 S Cabrillo S 31xE 120. All work for two story and basement 6-room frame residence.
Owner.....J. H. Belser, 734 Masonic Ave., San Francisco.
Architect ...None.
Contractor..C. A. Hall, 1318 5th Ave., San Francisco.
Filed Mar. 15, '16. Dated Mar. 15, '16.
Roof on $1312.50
Plastered 1312.50
Completed 1312.50
Usual 35 days..... 1312.50
TOTAL COST, $5256.00
Bond, $2625. Sureties, D. B. and R. B. Macdonald. Limit, none. Forfeit, $5. Plans and specifications filed.

PAINTING
(713) N WASHINGTON 103 W Spruce N 127-8¼xW 62-6. Painting for two-story and basement concrete and wood residence.
Owner.....Margaret E. Sudden, 62 Jordan Ave., San Francisco.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Harry G. Graper, 50 Farren, San Francisco.
Filed Mar. 15, '16. Dated Mar. 10, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1760
Bond, $880. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

APARTMENT FLATS
(714) SW ANZA AND ARGUELLO Boulevard W 95xS 25. All work for two-story and basement (4) apartment flats.
Owner.....Thomas Rourke, 605 Arguello Blvd, S. F.
Architect ...None.
Contractor..W. E. Grant, 1032 Irving, San Francisco.
Filed Mar. 15, '16. Dated Mar. 14, '16.
Foundation in .....$ 200
1st floor joists in place..... 350
2nd floor joists in place..... 300
Roof on 900
Ready for latning..... 350
Ready for plaster..... 500
Inside coat plaster on..... 750
White coat plaster on..... 500
Brick veneer and cement plaster on 350
Outside painting done..... 500
Finished and accepted..... 1600
Usual 35 days..... 2100
TOTAL COST, $8400
Bond, $2000. Surety, New Amsterdam Casualty Co. Limit, 70 days from Mar. 16, 1916. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(715) W FIFTH AND MINT NW 50x SW 75. All work except plumbing, steam heating, electric work, painting, light fixtures and shades for alterations and additions to Class "C" store and hotel building.
Owner.....Boyd Investment Co., 255 California, San Francisco.
Architect ...Nathaniel Blaisdell, 255 California, San Francisco.
Contractor..J. Harold Johnson, 507 15th Ave., San Francisco.
Filed Mar. 15, '16. Dated Mar. 8, '16.
Cast iron and steel work in position and rough timbering completed $1435
Lathed and plastered, sashes glazed and hung..... 1435
Completed and accepted..... 1439
Usual 35 days..... 1437
TOTAL COST, $5746
Bond, $2873. Sureties, H. A. Norman and A. Friedman. Limit, 70 days from recording. Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(716) SW TURK AND TAYLOR. Painting and papering for alterations to five-story and basement Class "C" hotel building.
Owner.....A. W. Wilson.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..H. Maundrell, 320 Hayes, San Francisco.
Filed Mar. 15, '16. Dated Mar. 11, '16.
One-half work done.....$1100
Completed and accepted..... 1225
Usual 35 days..... 775
TOTAL COST, $3100
Bond, none. Limit, 30 days from Mar. 15. Forfeit, none. Plans and specifications filed.

(717) ONE ELECTRIC ELEVATOR and one Otis direct lift Hydro-Pneumatic sidewalk elevator on above.
Contractor..Otis Elevator Co., Beach & Stockton, S. F.
Filed Mar. 15, '16. Dated Jan. 17, '16.
Upon shipment of engine..... ½
In position ..... ¼
In complete running order..... ¼
TOTAL COST, $2605
Bond, none. Limit, April 15, 1916. Forfeit, none. Plans and specifications filed.

"C" BRICK STORES
(718) N SUTTER 82-6 W Polk 27-4x 120. All work for two-story Class "C" brick stores.
Owner.....A. A. Myers, 68 Post, S. F.
Architect ...Heiman & Schwartz, Nevada Bank Bldg., S. F.
Contractor..O. W. Britt, 330-Ivy, S. F.
Filed Mar. 16, '16. Dated Mar. 3, '16.
2nd floor joists on.....$2450
Brown coated 2450
Completed and accepted..... 2450
Usual 35 days..... 2450
TOTAL COST, $9800
Bond, $4900. Surety, National Surety Co. Limit, 75 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(719) N EIGHTEENTH 55 E Lexington. Two-story and basement frame (4) flats.
Owner.....G. A. Muller and wife, 3472 18th, San Francisco.
Designer ...Fred A. Roemer, 220 Golden Gate Ave., San Francisco.
Day's work. COST, $5000

FRAME RESIDENCE
(720) W ASHBURY 90 N Piedmont, Ashbury Terrace. Two-story and basement frame residence.
Owner.....H. W. Bode, 430 Fair Oaks, San Francisco.
Architect ...None.
Contractor..Antone Peterson, 844 Guerrero, San Francisco.
COST, $5000

FRAME STORES
(721) S UNION 105 E Buchanan. One-story frame stores.
Owner.....Guido Musto, Cor. North Point and Jones, S. F.
Architect ...None.
Contractor..John Biller, 460 Montgomery, San Francisco.
COST, $1900

FRAME DWELLING
(722) E HILLWAY 180 S Carl. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(723) E HILLWAY 205 S Carl. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work COST, $2500

FRAME DWELLING
(724) W TWENTY-SEVENTH AVE 125 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(725) W TWENTY-SEVENTH AVE 175 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(726) W TWENTY-SEVENTH AVE 200 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(727) W TWENTY-SEVENTH AVE 238 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(728) W HILLWAY 155 S Carl. Two-story and basement frame dwelling.
Owner... ..F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(729) W HILLWAY 180 S Carl. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

ADDITION
(730) NO. 224 HARKNESS. Add to dwelling.
Owner.....H. Fox, Premises.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(731) W EGBERT 200 N Flowers. One-story and basement frame dwelling.
Owner.....A. Cazes, 1726 Revere, S. F.
Architect ...None.
Contractor..Alfred Debrieu, 1733 Oakdale, San Francisco.
COST, $550

FRAME DWELLING
(732) N MEDA 225 E Delano. One and one-half-story and basement frame dwelling.
Owner.....C. S. Allred, 150 Onondago, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(733) N MEDA 200 E Delano. One and one-half-story and basement frame dwelling.
Owner.....C. S. Allred, 150 Onondago, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME STORE AND FLAT
(734) SW CAINE AND LAKEVIEW. Two-story and basement frame store and flat.
Owner.....A. Angelos, 101 Lakeview Ave., San Francisco.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
(735) S MARKET AND THIRD SW 75 xSE 70. Removal and replacement of flooring of 1st floor, etc., to Claus Spreckels Building.
Owner.....City Investment Co.
Architect ...J. R. Miller, Lick Bldg., San Francisco.
Contractor..McLeran & Peterson, Sharon Bldg., S. F.
Filed Mar. 17, '16. Dated Mar. 15, '16.
On completion..Actual cost plus 10%
TOTAL COST, not to exceed $3601.30
Bond, limit, forfeit, none. Plans and specifications filed.

(736) PAINTING AND FINISHING ON above.
Contractor..H. Maundrell, 320 Hayes, San Francisco.
Filed Mar. 17, '16. Dated Mar. 16, '16.
Monthly payments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $1400
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME FLATS
(737) N UNION 30 W Jasper Place 30 x77. Window shades, gas and electric fixtures and finish hardware for three-story and basement frame flats.
Owner.....L. Nave and G. Devencenzi, 143 Varennes, S. F.
Architect ...None.
Contractor..F. C. Amoroso, 1246 Kearny, San Francisco.
Filed Mar. 17, '16. Dated Mar. 8, '16.
Frame up $1992.50
Brown coated 1992.50
Completed and accepted..... 1992.50
Usual 35 days..... 1992.50
TOTAL COST, $7970.00
Bond, $3985. Sureties, R. Capuro and A. Rinaldi. Limit, 100 days from granting of permit. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(738) NW UNION AND JASPER PLACE 26x77. All work except window shades, finish hardware, gas and electric fixtures for three-story and basement frame flats.
Owner.....Angelo Devincenzi, 1362-A Kearny, San Francisco.
Architect ...None.
Contractor..F. C. Amoroso, 1246 Kearny, San Francisco.
Filed Mar. 17, '16. Dated Mar. 8, '16.
Frame up $2098
Brown coated 2098
Completed and accepted..... 2098
Usual 35 days..... 2098
TOTAL COST, $8392
Bond, $4196. Sureties, N. Capurro and A. Rinaldi. Limit, 100 days from granting of permit. Forfeit, none. Plans and specifications filed.

LEASE.

Mar. 13, 1916—NE FILLMORE AND Geary. Peter and Henri Bercut (as Bercut Bros) to Frank Onorato. 5 years. $3000.
Mar. 14, 1916—PTN RANCHO RINCON de las Salinas y Potrero Viejo. Antonio Tiscornia to Eugene Tiscornia. 3 years. $15 per month.
Mar. 14, 1916—NO. 635 CALIFORNIA S line bet. Kearny and Grant Ave. Argo Invst Co to Peter Flexel. 4 years. $9600.
Mar 15, 1916—NO. 1297 DOLORES NE Cor. 26th. W G McDiarmid to Wilson Lyford. 5 years. $37.50.
Mar 11, 1916—NO. 235 EDDY S line 40 E Leavenworth E 47-6xS 87-6. William Palmtag and J H Lynn to C B Callahan. 10 years. $87,000.
Mar. 16, 1916—NW MISSION & SYCAmore Ave N 20xW 80. Nellie Mc M Donovan to Frank Stritzinger. 5 years. $5100.
Mar. 16, 1916—NO. 1662 RAILROAD Ave. Alfred and Emma Alberts to Philip Adami. 1 year. $6 per month.

NOTICE OF NON-RESPONSIBILITY.

Mar. 13, 1916—NW MARKET 9-6 m or l N California N parallel with E Drumm 177-9½ m or l to a pt 91-8 S Sacramento and 137-6 E Drumm E 64-8½ S parallel with Drumm 171-1¾ m or l SW 79-9¾ m or l; No. 86 Market. Doe Estate So, S J & E C Pringle as to improvements on leased property.....
Mar. 14, 1916—NW STOCKTON AND O'Farrell N 137-6xW 137-6. Hyman Bros Co as to improvements on leased property .....
Mar. 15, 1916—E TAYLOR 92-6 S Washington S 30xE 100. Arthur H Rochfort as to improvements on leased property .....
Mar. 15, 1916—NE FELL & GOUGH N 120xE 137-6. John F Farley as to improvements on leased property .....

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Mar. 11, 1916—W FORTY-FIFTH AV 175 N Judah. Alexander Neil to whom it may concern...Mar. 11, 1916
Mar. 13, 1916—N CALIFORNIA 30 E Leidesdorff E 30 m or l to a pt which is dist 132-6 W Sansome N 124 to S Halleck W 30 m or l S 24. San Francisco Investment Co to Colusa Sandstone Co....Mar. 11, 1916
Mar. 13, 1916—W SIXTEENTH AVE 75 N Clement 25x120; No. 285 16th Ave. Elise P or Mrs E P Roma to Chas Allsop.....Mar. 11, 1916
Mar. 13, 1916—SE LAKE & EIGHteenth Ave S 84xE 82-6 N parallel with E 18th Ave 84 W 28-6. Mary E Hart to L T McNabb..Mar. 8, 1916
Mar. 14, 1916—W TAYLOR 137-6 N Sutter N 38-9xW 137-6. Biltmore Realty Co to Vincent J Donovan.. .....March 13, 1916
Mar. 14, 1916—N SILLIMAN 50 E Holyoke E — N 100 W 25 S 100. Frank and Theresa Zanini to Jos Perasso.....Mar. 6, 1916
Mar. 14, 1916—LOT 17 BLK 21 Crocker Amazon Tract. John Bjorkman to whom it may concern.Mar. 11, 1916
Mar. 14, 1916—E BELVEDERE 100 N Waller 25x123-5¼. A Burkhart to John Casty.....Mar. 11, 1916
Mar. 14, 1916—N CABRILLO 90 W 12th Ave N 85xW 27-6. Margaretha J Koenig to whom it may concern .....March 8, 1916
Mar. 14, 1916—S MARKET 150 W 7th W 75 S 165 E 75 N 150. C N Felton to Central Iron Works..Mar. 10, 1916
Mar. 14, 1916—S BUSH 187-6 W Mason W 42xS 137-6. O'Brien Bros, Inc to Gas & Elec Appl Co and D Zelinsky & Sons.....Completed
Mar. 15, 1916—N PAGE 37-6 W Lyon

N 95 W 25 S 95 E to beg. Martha Dorgeloh to Barrett & Hilp.....
.....March 11, 1916

Mar. 15, 1916—E CHERRY 40 N Sacramento N 60xE 62-6. Eisenbach Co to Higginson Co, Levy Elec Co, Barrett & Hilp and S Ginsberg & Co
.....March 14, 1916

Mar. 15, 1916—SE GEARY AND 15TH Ave E 50xS 73-8. James Welsh to whom it may concern..Mar. 10, 1916

Mar. 15, 1916—COMG 50 W YORK and 325 S 26th W 25 S 83-6 E 25-0⅞ N 80-10¾. Michael McDonough and Lawrence Costello to whom it may concern.....Mar. 14, 1916

Mar. 15, 1916—NE ANZA & THIRTEENTH Ave E 120xN 50. E F West to S A Born Bldg Co....Mar. 14, 1916

Mar. 14, 1916—W FIFTEENTH AVE 25 S Balboa S 25xW 77-6. Emil Nelson to whom it may concern.....
.....Mar. 14, 1916

Mar. 16, 1916—NO. 732 EIGHTH AVE Henry and Hattie M Tillman to Otto Carson.....Mar. 11, 1916

Mar. 16, 1916—E CLAYTON 875 m or l S Frederick S 30-7⅛ E 89-5⅝ N 4-9⅝ NW 17-4¾ N 19-3⅞ W 79-5. Henry Jacob to James Welsh.....
.....March 10, 1916

Mar. 16, 1916—N ELLIS 112-6 E Jones 25x137-6. Smith & Stewart to J B Reite.....Mar. 14, 1916

Mar. 17, 1916—S RIVERA 90 W 21st Ave 30x100. N F Nilsson to E M Nilsson.....Mar. 17, 1916

Mar. 17, 1916—S RIVERA 120 W 21st Ave 30x100. N F Nilsson to E M Nilsson.....Mar. 17, 1916

Mar. 17, 1916—E ELEVENTH AVE 125 N Lawton N 25xE 120. Louis Lamotte to Geo H Old....Mar. 8, 1916

Mar. 17, 1916—E THIRD AVE 100 N Balboa 25x120. Leo J Ruegg to whom it may concern...Mar. 17, 1916

LIENS FILED

San Francisco

Mar. 11, 1916—NW TWENTY-4TH and Poplar Alley W 30 N 83 NE to W Poplar Alley S 83-6. L H Sylvester, $52.50; A J Sternke, $50.75 vs Saporitti & Benetti and J S McLelland .....

Mar. 11, 1916—W MISSION 190-9 N 25th N 25xW 117-6. J P Lorden Mill Co vs Annie M Schulz and Ratto & Ratto.....$482.50

Mar. 11, 1916—W TWENTY-NINTH 180 E Castro E 25xS 114. Henry Gervais vs G Cavaglieri and Joseph F Fogarty $35

Mar. 11, 1916—N EIGHTEENTH 95 E Valencia 89xE 25. Palace Hardware Co vs P M McHugh.....$215.72

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Philip Marchi vs Joseph Fogarty.....$80

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. P E Depaoli vs Joseph F Fogarty and G Cavaglieri $38

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. John Cassaretto vs Joseph F Fogarty and G Cavaglieri $123.05

Mar. 13, 1916—COMG 180 E from N 29th and Castro E 25xN 120. Louis Trebino vs J F Fogarty & G Cavaglieri $31.50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Frank J Klimm, $571.45; Western Furnace & Cornice Co, $299.60 vs Mrs L G Auzerais .....

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. P P Lund vs Mrs L G Auzerais.....$470

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼ Lyden & Bickel vs Andrew Wilkie Co and Mrs L G Auzerais.....$711.20

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. O Dudzeck and M Leutholdt (as M Leutholdt & Co) vs Frank A Wilkie and Mrs L G Auzerais.....$170

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. W P Fuller & Co vs A Wilkie Co, F A Wilkie and Mrs L G Auzerais....$288

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 137-8¼. Butte Eng & Elec Co vs Mrs L G Auzerais
.....$219.15

Mar. 14, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Eagle Elec Co vs Joseph Fogarty and G Cavaglieri $50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS127-8¼. H E Drake vs L G Auzerais and Frank A Wilkie.....$158.70..

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Holloway Expanded Metal Co, $31.20; Pope & Talbot, $1154.72; Herring's Mill, Inc, $838 vs Mrs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—LOT 21 BLK "K" Mission Terrace (NE Cor. Santa Ynez Ave and Capistrano Ave). H G Dolder and A A Derrickson vs Pietro Cembrano or P Cenbrano.$825

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Bay Development Co, $166.03; Pacific Portland Cement Co, $34.55 vs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Joseph Musto Sons-Keenan Co vs Mrs L G Auzerais and Frank A Wilkie $129.20

Mar. 16, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Acme Lumber Co vs Jos F Fogarty and G Cavaglieri $175

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
553	Baumann	Baumann	400
554	Pendleton	Barton	500
555	Foster	King	4000
557	Woodard	Woodard	3000
558	Hanks	Smith	1400
564	Drost	Drost	2000
565	Dean	Dean	2350
566	Dreger	Begier	400
567	Cal Oil Burner	Taylor	500
568	Garretson	Owner	3000
569	Wallace	Christensen	400
570	Woodburn	Woodburn	2500
571	Kleeman	Scott	1700
572	Cormack	Flittner	1250
573	Swanson	Sherwood	1600
575	Hipsley	Hipsley	1800
576	Mapes	Schnehly	871
577	Maloon	Maloon	1600
578	O'Connor	O'Connor	3000
579	Same	Same	3000
580	Horne	Tullock	1300
581	Same	Same	1300
582	Paladini	Edwards	18750
585	Newark Ld Co	Owner	—
587	Cornwall	Flittner	1165
591	Myers	Myers	2500
592	Hancock	Hancock	3200
593	Mosher	Grenfell	450
594	Appledorn	Barton	500
595	St. Mary	St. Mary	1200
596	Rhoades	Rhoades	1600
597	Hillen	Hillen	2000
598	Hillen	Hillen	2000
599	Elec Alkaline Co	Owner	450
600	Miranda	Dameral	800
601	Myers	Robson	400
602	Trimlett	Trimlett	1600
603	Lyon	Muller	60000
604	Higgins	Higgins	3500
605	Krahn	Bruce	12500
606	Foley	Rutherford	2500
612	Plichot	Legault	1600
613	Hase	Corbett	500
614	Enterprise Hall	Cooley	10000
615	Nelson	Nelson	1300
617	Goranson	Goranson	1850
618	Cushing	Leiter	1000
622	Seeman	Swalley	5250
624	Allard	Valente	1500
625	Morris	Morris	1500
626	Dice	Dice	1500
627	Price	Price	2500
628	Ericsson	Ericsson	1500
629	Magnolia St Mill	Owner	1000
630	Wilson	Heijne	400
631	Campomenosi	Owner	500
636	Consumers	Munster	2000
637	McNeal	Douglas	1290
638	Anderson	Anderson	1300
639	Hawley	Warren	3331

ALTERATIONS

(553) NO. 4632 E-FOURTEENTH, Oakland. Alterations.
Owner.....Fred Baumann, 2000 45th Ave., Oakland.
Architect...None.
Day's work. COST, $400

FRAME DWELLING

(554) EL CERRITO AND MAGNOLIA Aves, Piedmont. Two-story frame dwelling.
Owner.....W. R. Pendleton.
Archieect ..Architect.
Contractor..C. B. Barton, 1540 San Pablo Ave., Oakland.
COST, $5000

BRICK GARAGE

(555) E GROVE 51 N 55th, Oakland. One-story brick garage.
Owner.....F. E. Foster, Morrill Apts., Berkeley.
Architect ...None.
Contractor..Geo. F. King, Morrill Apts., Berkeley.
COST, $4000

FRAME DWELLING

(557) LOT 57, NOVA PIEDMONT, Nova Drive, Piedmont. Two-story frame dwelling.
Owner.....Mabel Woodard, 4031 Brighton Ave., Piedmont.
Architect ...None.

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Contractor..E. W. Woodard, 1031 Brighton Ave., Piedmont.
COST, $3000

FRAME DWELLING
(558) N GREENBANK 231-72 W Grand Ave., Piedmont. One-story 4-room frame dwelling.
Owner.....Mrs. B. Hanks, 529 23rd, Oakland.
Architect ...None.
Contractor..O. G. Smith, 806 Syndicate Bldg., Oakland.
COST, $1400

DWELLING
(564) E LINWOOD AVE 60 N E-37th, Oakland. Two-story 7-room dwlg.
Owner.....J. Drost, 1241 14th, Okd.
Architect ...None.
Day's work. COST, $2000

DWELLING
(565) N ARLINGTON AVE 200 E Adeline, Oakland. One-story 6-room dwelling.
Owner.....C. M. Dean, 512 13th, Okd.
Architect ...None.
Day's work. COST, $2250

ADDITION
(566) NO. 891 FIFTY-SECOND, Oakland. Two-story addition.
Owner.....W. H. Dreger, Premises.
Architect ...None.
Contractor..Harry C. Begier, 1331 98th Ave., Oakland.
COST, $400

ALTERATIONS
(567) SW THIRD AND BROADWAY, Oakland. Alterations.
Owner.....Cal. Oil Burner Co., Prem.
Architect ...None.
Contractor..G. Taylor, 96 Pearl, Oakland. COST, $500

DWELLING
(568) N E-TWENTY-EIGHTH 88 W Bella Vista, Oakland. Two-story 7-room dwelling.
Owner.....John D. Garretson, Thomson Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $3000

ADDITION
(569) NO. 1661 SIXTY-NINTH AVE., Oakland. Addition.
Owner.....L. E. Wallace, Premises.
Architect ...None.
Contractor..C. C. Christensen, 1194 71st Ave., Oakland.
COST, $400

DWELLING
(570) S EL CENTRO 260 E Park Blvd., Oakland. One and one-half-story 6-room dwelling.
Owner.....Paul E. Woodburn, 3965 Greenwood Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

ADDITION
(571) NO. 573 THIRTY-FIRST, Oakland. One-story 3-room addition to dwelling.
Owner.....Etta B. Kleeman, Premises.
Architect ...None.
Contractor..G. A. Scott, 685 23rd, Okd.
COST, $1700

DWELLING
(572) N PEARMAN 150 W 107th Ave., Oakland. One-story 4-room dwlg.
Owner.....A. F. Cornwall, 3606 35th Ave., Oakland.
Architect ...None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
COST, $1250

DWELLING
(573) N HOWE 275 E Ridgeway, Oakland. Two-story 5-room dwelling.
Owner.....Andrew P. Swanson, 4225 Howe, Oakland.
Architect ...None.
Contractor..J. P. Sherwood, 463 60th, Oakland. COST, $1600

DWELLING
(575) E SIXTY-FOURTH AVE 250 N E-14th, Oakland. One-story 5-room dwelling.
Owner.....M. J. Hipsley, 1675 81st Ave., Oakland.
Architect ...None.
Day's work. COST, $1300

DWELLING
(576) NO. 945 LAKESHORE AVE(rear) Oakland. One-story 2-room dwlg.
Owner.....Geo. L. Mapes, Premises.
Architect ...None.
Contractor..Schnebly, Hostrawser & Pedgrift, 6th & Jackson, Oakland.
COST, $871

DWELLING
(577) NO. 2929 LINDEN, Oakland. One story 6-room dwelling.
Owner.....Mrs. C. H. Maloon, 1068 30th, Oakland.
Architect ...None.
Contractor..C. H. Maloon, 1068 30th, Oakland.
COST, $1600

DWELLING
(578) E BROADWAY 68 N Taft Ave., Oakland. One-story 5-room dwlg.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $3000

DWELLING
(579) E BROADWAY 34 N Taft Ave., Oakland. One-story 5-room dwlg.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $3000

DWELLING
(580) S E-TWENTY-SEVENTH 60 W 23rd Ave., Oakland. One-story 4-room dwelling.
Owner.....E. W. Horne, Alum Rock Ave. nr Whitehead, San Jose.
Architect ...None.
Contractor..H. Tullock, 2445 24th Ave., Oakland.
COST, $1300

DWELLING
(581) SW E-TWENTY-SEVENTH & 23rd Ave., Oakland. One-story four-room dwelling.
Owner.....E. W. Horne, Alum Rock Ave. nr Whitehead, San Jose.
Architect ...None.
Contractor..H. Tullock, 2445 24th Ave., Oakland.
COST, $1300

BRICK FISH MARKET
(582) E WASHINGTON 50 N Fifth E 75xN 50, Oakland. All work for two-story brick fish market.
Owner.....A. Paladini, 955 Market, San Francisco.
Architect ...Welsh & Carey, Merchants National Bank Bldg., S. F.
Contractor..F. J. Edwards, Oakland.
Filed Mar. 14, '16. Dated Mar. 10, '16.
Basement walls completed.....$3000
Steel work & 1st floor completed 4000
Roof ready for felt..... 4000
Completed and accepted..... 3062
Usual 35 days..... 4688
TOTAL COST, $18,750
Bond, $9375. Sureties, M. V. Brady and C. E. Edwards. Limit, 100 days. Forfeit, $10. Plans and specifications filed.

FRAME RESIDENCES
(585) NEWARK, Alameda County. All work for four one-story and basement frame residences.
Owner.....Newark Land Co.
Architect ...Sidney B. and Noble Newsom, Nevada Bank Bldg., San Francisco.
Day's work. COST, $——
NOTE:—Sixteen more dwellings are to be erected later by the same owners. Twenty dwellings are to be erected at Decoto from plans prepared by the same architects.

FRAME DWELLING
(587) LOT 87 Apricot Orchard Addition to Stonehurst, Oakland. All work for one-story frame dwelling.
Owner.....A. F. Cornwall, 3606 35th Ave., Oakland.
Architect ...None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
Filed Mar. 13, '16. Dated Mar. 9, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1165
Bond, $600. Surety, Fritz Bertel. Limit, 60 days. Forfeit, $1. Plans and specifications filed.

STORES AND FLATS
(591) NE HIGH AND VIRGINIA AVE., Oakland. Two-story 8-room stores and flats.
Owner.....W. J. Myers, 3110 High, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(592) W PARK BLVD 350 N Hampel, Oakland. One-story 6-room dwlg.
Owner.....J. E. Hancock, 3830 Park Blvd., Oakland.
Architect ...None.
Day's work. COST, $3200

DWELLING
(593) E EIGHTY-FIFTH AVE 200 N Blanche, Oakland. One-story 5-room dwelling.
Owner.....Mrs. M. E. Mosher, 245 Sanchez, San Francisco.
Architect ...None.
Contractor..W. M. Grenfell, 285 Sanchez San Francisco.
COST, $450

ALTERATIONS
(594) NOS. 714-16 WASHINGTON, Oakland. Alterations.
Owner.....C. Appledorn, 51 8th, Okd.
Architect ...None.
Contractor..R. M. Barton, 1637 E-20th Oakland.
COST, $500

DWELLING
(595) E NINETY-THIRD AVE 180 S

E-14th, Oakland. One-story 4-room dwelling.
Owner.....Joe St. Mary, 9257 E-14th, Oakland.
Architect ...None.
Day's work. COST, $1200

DWELLING
(596) E THIRTY-NINTH AVE 460 N Kanning, Oakland. One-story 5-room dwelling.
Owner.....E. B. Rhoades, 689 Sycamore, Oakland.
Architect ...None.
Contractor..E. H. Rhoades, 2819 Peralta, Oakland.
COST, $1600

DWELLING
(597) E VICKSBURG AVE 717 N Ygnacio, Oakland. One-story 5-room dwelling.
Owner.....R. H. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(598) E VICKSBURG AVE 747 N Ygnacio, Oakland. One-story 5-room dwelling.
Owner.....R. H. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

ADDITION
(599) NO. 809 HIGH, Oakland. Addition.
Owner.....Electro Alkaline Co., Prem
Architect ...None.
Day's work. COST, $450

DWELLING
(600) S E-SIXTEENTH 100 E 16th Ave Oakland. One-story 4-room dwlg.
Owner.....Frank Miranda, 1615 E-16th, Oakland.
Architect ...None.
Contractor..H. G. Dameral, 1543 19th Ave., Oakland.
COST, $800

ALTERATIONS
(601) SW FORTYTHIRD & TELEgraph Ave., Oakland. Alterations.
Owner.....J. Myers, 290 Lee, Oakland.
Architect ...None.
Contractor..W. H. Robson, 1519 Chestnut, Oakland.
COST, $400

DWELLING
(603) S BROOKDALE AVE 380 W 38th Ave., Oakland. One-story 5-room dwelling.
Owner.....R. Trimlett, 3630 Brookdale Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

CLASS "B" WAREHOUSE
(603) E BROADWAY 244 N Junction Piedmont Ave., Oakland. Eight-story Class "B" warehouse.
Owner.....Lyon Storage & Moving Co. 1437 Broadway, Oakland.
Architect ...Richardson & Burrell, Albany Blk., Oakland and W. W. Breite, Clunie Bldg., S.F.
Contractor..F. A. Muller, Syndicate Bldg., Oakland.
COST, $60,000

DWELLING
(604) E THOMAS 350 N Napa, Oakland Two-story 7-room dwelling.
Owner.....E. L. Higgins, 5250 Miles Ave., Oakland.
Architect ...None.
Day's work. COST, $8500

ALTERATION
(605) W ADELINE 37.58 N 63rd W 67.75 N 53 E 93.71 S 59.03, Berkeley. Alter old frame theatre and make 2-story brick and steel addition.
Owner.....Will F. and Meta M. Krahn, 3326 Adeline, Bkly.
Architect ...L. F. Hyde, 2745 26th Ave., Oakland.
Contractor..J. F. Bruce, Oakland.
Filed Mar. 15, '16. Dated Mar. 14, '16.
Wall and steel in place..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $12,500
Bond, $6250. Sureties, J. W. Swift and R. C. Wilcox. Limit, 68 days. Forfeit, none. Plans and specifications filed.

BUNGALOW
(606) N BOWIE 90 W Grand, Piedmont. Five-room bungalow.
Owner.....D. F. Foley.
Architect ...None.
Contractor..T. Rutherford, 935 35th, Oakland. COST, $2500

DWELLING
(612) W 35 LOT 9 BLK 3 Map Landregan Tract, Oakland. All work for one-story 5-room dwelling.
Owner.....Edouard Plichot, Oakland.
Architect ...None.
Contractor..Oliver Legault, 3136 West, Oakland.
Filed Mar. 14, '16. Dated Mar. 13, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $1600
Bond, none. Limit, 70 days. Forfeit, $2. Plans and specifications filed.

ALTERATIONS
(613) NO. 461 TWELFTH, Oakland. Alterations.
Owner.....M. X. Hase, Premises.
Architect ...None.
Contractor..Corbett & Bayless, 1110 Franklin, Oakland.
COST, $500

APARTMENTS
(614) S THIRTY-THIRD 200 E San Pablo Ave., Oakland. Three-story 24-room apartments.
Owner.....Enterprise Hall Ass'n., 2336 Valdez, Oakland.
Architect ...None.
Contractor..R. H. Cooley, Room 803 1st Trust Bldg., Oakland.
COST, $10,000

DWELLING
(615) S AILEEN 116 E Lowell, Oakland. One-story 6-room dwelling.
Owner.....E. W. Nelson, 945 57th, Oakland.
Architect ...None.
Day's work. COST, $1800

DWELLING
(617) S HOPKINS 40 W Rhoda, Oakland. One-story 5-room dwelling.
Owner.....H. Goranson, 431 48th, Okd.
Architect ...None.
Day's work. COST, $1850

ALTERATIONS
(618) NO. 530 FIFTEENTH, Oakland. Alterations.
Owner.....H. D. Cushing & Co., 1 Telegraph Ave., Oaklan
Architect ...None.
Contractor..E. T. Leiter & Sons, 30 West, Oakland.
COST, $10

FRAME DWELLING, ETC.
(622) LOT 158 Piedmont-by-the-La Tract, Oakland. All work for on story frame dwelling, garage a chicken house.
Owner.....C. J. Seemann, 3813 Tel graph Ave., Oakland.
Architect ...None.
Contractor..H. M. Swalley and E. Spencer, 476 Cheney Av Oakland.
Filed Mar. 16, '16. Dated Mar. 15, '16.
Rafters in place.....
Plastered, roof, rustic and cornice on .....
Completed, except interior painting, paper hanging and electric fixtures .....
Usual 35 days.....
TOTAL COST, $52
Bond, none. Limit, 90 days. Forfe none. Plans and specifications filed.

DWELLING
(624) E EVELYN 150 N Marin, A bany. One-story 5-room dwelling.
Owner.....C. Allard, Albany.
Architect ...None.
Contactor..M. E. Valente, 5882 Valle Oakland.
COST, $15

DWELLING
(625) W POMONA 130 N Marin Av Albany. One-story 6-room dwellin
Owner.....A. R. Morris, Albany.
Architect ...None.
Day's work. COST, $15

DWELLING
(626) W POMONA 412 S Marin Av Albany. One-story 5-room dwelling
Owner.....B. A. Dice, 429 13th, Okd.
Architect ...None.
Contractor..J. M. Dice, 429 13th, Okd
COST, $15

DWELLING
(627) W INYO 215 S Solano, Alban One-story 6-room dwelling.
Owner.....Price Bros., 5723 Or Grove Ave., Oakland.
Architect ...None.
Day's work. COST, $25

DWELLING
(628) — CORNELL AVE 525 N Dar mouth, Albany. One-story 5-roo dwelling.
Owner.....Carl Ericsson, 1200 M sonic Ave., Albany.
Architect ...None.
Day's work. COST, $15

WAREHOUSE
(629) NOS. 362-4 MAGNOLIA, Oaklan Two-story warehouse.
Owner.....Magnolia St. Planing Mi Premises.
Architect ...None.
Day's work. COST, $10

ADDITION
(630) NO. 238 E-SIXTEENTH, Oaklar Addition.
Owner.....Mrs. A. J. Wilson, Premis
Architect ...None.
Contractor..Carl A Heijne, Albar Bldg., Oakland.
COST, $4

DITION
) NO. 5238 LAWTON AVE., Oak-
nd Addition.
ner.....E. Campomenosi, 5174 Miles Ave., Oakland.
hitect ...None.
's work. COST, $500

NK FRAME
6) NO. 1372 FIFTH, Oakland. Tank
rame.
ner.....Consumers Compressed Yeast Co., Premises.
hitect ...None.
ntractor..Munster & Burnholdt, 1530 Broderick, San Francisco.
COST, $2000

VELLING
7) "D" 110 E 88th Ave., Oakland.
One-story 4-room dwelling.
ner.....Justin H. McNeal, 2314 E-22nd, Oakland.
chitect ...None.
ntractor..H. C. Douglas, 1238 50th Ave., Oakland.
COST, $1290

VELLING
38) S ABBEY 280 E Allendale, Oak-
land. One-story 5-room dwelling.
vner.....John Anderson, 2902 Abbey, Oakland.
rchitect ...None.
ay's work. COST, $1300

OG DWELLING
39) LOT 26 BLK 20 Thousand Oaks Tract, Oakland Tp. Carpenter, mill work, glass and glazing, roof shingling, concrete and cement work, brick and stone work and plastering for two-story log dwelling.
wner.....R. W. Hawley, 2144 Woolsey, Berkeley.
rchitect ...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..C. H. Warren, 2200 Atherton, Berkeley.
Filed Mar. 17, '16. Dated Mar. 14, '16.

Frame up	$1000
Ready for plaster	200
Completed and accepted	1731
Usual 35 days	400
TOTAL COST,	$3331

Bond, none. Limit, 80 days. Forfeit, none. Plans and specifications filed.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
556	Coles	Patton	8500
559	Christenson	Carlson	1000
560	O'Keefe	Chambers	2000
561	Askew	Askew	3000
562	Fairchild	Allen	400
563	Hanson	Hanson	1350
574	Dygert	Mullen	375
583	Merritt	Livingston	12250
584	Hall Scott	Owner	3200
586	Gompertz	Carlson	5689
616	Baker	Baker	1000
619	Baker	Baker	1000
620	Burger	Chambers	2500
621	Johnson	Johnson	2000
623	Lindblom	Emsberger	5668
632	Menhaus	Kollmer	400
633	Gilsenen	Henderson	450
634	Robertson	Smith	500
635	Blomquist	Blomquist	1300

FLAT AND STORE BUILDING
(556) SE SHATTUCK AVE & PRINCE E 100 S 40 W 102-6 N 40.064, Berkeley. All work for two-story brick and frame flat and store building (2 three-room flats and 3 two-room flats and 2 stores).
Owner.....Chas. W. Coles, Vacaville, California.
Architect ...None.
Contractor..George W. Patton, 2126 Emerson, Berkeley.
Filed Mar. 11, '16. Dated Mar. 9, '16.

Sub-contracts signed up and excavation completed	$1000
Frame up	1125
Brown coated	2125
Brown coated	2125
Completed	2125
Usual 35 days	2125
TOTAL COST,	$8500

Bond, $4250. Surety, American Surety Co. Limit, 90 days after March 13. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(559) NO. 1224 HASKELL, Berkeley. Alterations and additions.
Owner.....John Christenson, Premises
Architect ...None.
Contractor..H. Carlson, 1627 Parker, Berkeley.
COST, $1000

DWELLING
(560) W CARLOTTA AVE 200 S Posen Ave., Berkeley. One-stony 5-room dwelling.
Owner.....J. M. O'Keefe, 2232 8th Ave Oakland.
Architect ...None.
Contractor..J. F. Chambers, Plaza Bldg., Oakland.
COST, $2000

FLATS
(561) E ROOSEVELT 260 S Allston Way, Berkeley. Two-story 9-room flats.
Owner.....J. E. Askew, 2206 Roosevelt, Berkeley.
Architect ...None.
Day's work. COST, $3000

ADDITION
(562) NO. 2842 HILLEGASS, Berkeley. Addition.
Owner.....E. F. Fairchild, Premises.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $400

DWELLING
(563) N BLAKE 245 E Mabel, Berkeley. One-story 4-room dwelling.
Owner.....J. S. Hanson, 1623 Josephine, Berkeley.
Architect ...None.
Day's work. COST, $1350

ALTERATIONS
(574) NEAR COR. ASHBY & BENvenue Aves., Berkeley. Carpenter and cement and wrecking work for alterations and additions to one-story dwelling into two-story flats (except floors on 2nd floor, oak floors, sanding or scraping floors, cement walks or removal of rubbish).
Owner.....H. I. Dygert, 2623 Ashby Ave., Berkeley.
Architect ...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..J. W. Mullen.
Filed Mar. 13, '16. Dated Mar. 7, '16.

Foundation in and 1st floor joists in and covered	$ 75
Ready for plaster	100
One-half finish completed	100
Completed	100
TOTAL COST,	$375

Bond, limit, forfeit, none. Plans and specifications filed.

FRAME DWELLING
(583) LOTS 4 AND 5 BLK 1 Map Martin Kellogg Ppty, Berkeley. All work for two-story and basement frame dwelling with brick veneer exterior.
Owner.....Ralph P. Merritt, 3517 Telegraph Ave., Oakland.
Architect ...William C. Hays, S. F.
Contractor..William Livingston, 2918 Ellis, Berkeley.
Filed Mar. 14, '16. Dated Mar. 7, '16.

Frame up	¼
Plastered inside	¼
Completed and accepted	¼
Usual 35 days	¼
TOTAL COST,	$12,250

Bond, $6125. Surety, Hartford Accident & Indemnity Co. Limit, 120 days. Forfeit, $10. Plans and specifications filed.

OFFICE BUILDING
(584) NO. 739 SNYDER AVE., Berkeley Two-story 3-room office buildings.
Owner.....Hall Scott Motor Car Co.
Architect ...Edw. T. Foulkes, Crocker Bldg., San Francisco.
Day's work. COST, $3200

DWELLING
(586) LOT 17 BLK 4, Hotel Claremont Tract, Map No. 2, being on N Alvarado Road and Willow Walk, Berkeley. All work for two-story and basement 9-room dwelling.
Owner.....Ada Lockett Gompertz, 2619 Parker, Berkeley.
Architect ...W. L. Brodrick, 1201 Colusa Ave., Berkeley.
Contractor..Axel Carlson, 1351 Hearst Ave., Berkeley.
Filed Mar. 13, '16. Dated Mar. 10, '16.

Frame up	¼
Brown coated	¼
Completed	¼
Usual 35 days	¼
TOTAL COST,	$5689

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(616) N ASHBY AVE 35 E Sacramento, Berkeley. One-story 4-room dwelling.
Owner.....Wm. J. Baker, 1590 Alice, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(619) E SACRAMENTO 72 N Ashby Ave., Berkeley. One-story four-room dwelling.
Owner.....Wm. J. Baker, 1590 Alice, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(620) S POSEN AVE 60 E Carlotta Ave., Berkeley. One-story 5-room dwelling.
Owner.....Frank W. Burger, 858 52nd, Oakland.
Architect ...None.
Contractor..J. F. Chambers, Plaza Bldg., Oakland.
COST, $2500

DWELLING
(621) NE ALCATRAZ AVE & BAKER, Berkeley. One-story 5-room dwlg.
Owner.....W. and O. Johnson, 3228 Adeline, Berkeley.
Architect ...None.
Day's work. COST, $2000

FRAME ADDITION
(623) SW PARKER & BENVENUE Ave., Berkeley. All work for two-story frame addition to flat building.

Owner....Mrs. M. A. and Miss B. Lindblom, 2601 Hillegass Ave., Berkeley.
Architect...None.
Contractor..Frank A. Ernsberger, 6243 College Ave., Oakland.
Filed Mar. 16, '16. Dated Mar. 16, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $5668
Bond, none. Limit, 60 days. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(632) NO. 2922 DERBY, Berkeley. Alterations.
Owner.....E. Nauhaus, Premises.
Architect...None.
Contractor..Jacob Kollmer, 2813 Stuart Berkeley.
COST, $400

ALTERATIONS
(633) NO. 2847 WEBSTER, Berkeley. Alterations.
Owner.....Elizabeth Gilsenen, Prem.
Architect...None.
Contractor..B. W. Henderson.
COST, $450

ALTERATIONS
(634) NO. 1525 HAWTHORNE TERRACE, Berkeley. Alterations.
Owner.....G. M. Robertson, Premises.
Architect...None.
Contractor..H. C. Smith, 2011 Francisco, Berkeley.
COST, $500

DWELLING
(635) NO. 2825 EIGHTH, Berkeley. One-story 4-room dwelling.
Owner.....Gus Blomquist, Premises.
Architect...None.
Day's work. COST, $1200

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
588	Pestorino	Dufour	900
589	G G Gun Club	Swenson	400
590	Durney	MacRae	400
607	Cole	Cole	3500
608	Serralunga	MacRae	1230
609	Noble	Noble	2000
610	Strang	Strang	2750
611	Cole	Adams	3500

BARN
(588) NO. 1139 BROADWAY, Alameda. Barn.
Owner.....A. Pestorino, 2518 Clay St., Alameda.
Architect...None.
Contractor..Wm. Dufour, 2326 Santa Clara Ave., Alameda.
COST, $900

SHED
(589) N END BENTON, Alameda. Shed.
Owner.....Golden Gate Gun Club, Chronicle Bldg., S. F.
Architect...None.
Contractor..Swenson & Franzen, 145 Natoma, San Francisco.
COST, $400

SLEEPING PORCH
(590) NO. 1325 DAYTON AVE., Alameda. Sleeping porch.
Owner.....Jos. Durney, Premises.
Architect...None.
Contractor..Chas. MacRae, 2315 Encinal Ave., Alameda.
COST, $400

DWELLING
(607) NO. 3262 FAIRVIEW AVE., Alameda. One and one-half-story eight-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect...None.
Day's work. COST, $3500

BARN
(608) FOOT REGENT ST., Alameda. Barn.
Owner.....L. Serralunga, 1614 Regent Alameda.
Architect...None.
Contractor..Chas. MacRae, 2305 Encinal Ave., Alameda.
COST, $1230

DWELLING
(609) NO. 2508 NOBLE AVE., Alameda. One-story 5-room dwelling.
Owner.....Geo. H. Noble, 2220 Central Ave., Alameda.
Architect...None.
Day's work. COST, $2000

DWELLING
(610) E BAYO VISTA AVE — N Monte Vista, Alameda. Two-story 6-room dwelling.
Owner.....F. N. Strang, 805 Pacific Ave., Alameda.
Architect...None.
Day's work. COST, $2750

DWELLING
(611) BAYO VISTA AND FAIRVIEW Aves., Alameda. Two-story 8-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3500

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Mar. 16, 1916—LOTS 8 AND 9 BLK "C" 256-313 Curtis & **Williams** Tract being SW Cor 23rd and Brush S 30x W 100, Okd. Virginia Smoot Bleuel as to improvements on leased property .....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 11, 1916—LOT 72 Map Lawton Ave Tract, Okd. Thomas Lucas by A N Rowe to whom it may concern .....March 11, 1916
Mar. 11, 1916—LOT 16 BLK "A" Waterside Terrace Tract. Alameda. Mark T Cole to whom it may concern.....Mar. 10, 1916
Mar. 11, 1916—LOT 59 4th Ave Terrace Ext, Okd. Mrs Anna H Coggins to Paul Woodburn..Mar. 8, 1916
Mar. 13, 1916—S MILTON 188.9 E Market S 50xS 100, Okd. Sarah Bell to John Bernhardy.....Mar. 9, 1916
Mar. 13, 1916—E GRANT 107.5 S Hearst Ave 37x100, Bkly. B F Butler to whom it may concern... .....March 13, 1916
Mar. 14, 1916—W PARK BLVD 150 N El Centro Ave 40x100, Oakland. Mabel Woodard to E W Woodard .....March 14, 1916
Mar. 14, 1916—NO. 442 PACIFIC AVE. Ala. Emanuel Danton to F De Martini.....Mar. 13, 1916
Mar. 14, 1916—E JACKSON 211.1 N 14th N 42 E 80 S 20 E 70 S 22 W 150, Okd. Edgar and Mabel Francis Durnan to Sommarstrom & Hinkle .....March 14, 1916
Mar. 14, 1916—E BRUCE 33⅓ S Bancroft Way S 33⅓xE 80, Bkly. Carl Ericsson to whom it may concern .....March 14, 1916
Mar. 15, 1916—LOT 21 BLK "H" Map East Piedmont Heights, Oakland. Wickham Havens, Inc to C M MacGregor.....Mar. 13, 1916
Mar. 15, 1916—SW TELEGRAPH & Ashby Aves S 79.41 W 100 N 74.33 E 119.74, Bkly. J H Wright to J Henry Boehrer and Alfred Legault .....March 14, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 13, 1916—NE COLLEGE AND Harwood Aves N 107.45 E 60.66 S 100 W 100, Okd. H C Brown vs A L Haley and Marian H Dunham..$76
Mar. 14, 1916—W FILBERT 125 S Eighth S 43-8¾xW 125, Okd. H Peterson Co vs E Marshall and O M Bullock $60.30
Mar. 14, 1916—NE COLLEGE & HARwood Aves, fronting 100 on each Ave., Okd. F A Culin vs A L Haley, J F Woodward and Marion H Dunham $42.75
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Bay Electric Co vs Marion H Dunham, A L Haley and J F Woodward $40
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Marshall & Stearns Co, $560; Joseph A McGowan, $195 vs Marion H Dunham & J F Woodward .....
Mar. 14, 1916—N COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. J T O'Brien vs S E Mathews & Son and Marion H Dunham $76.25
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. C E Sisson vs Marion H Dunham and A L Haley....$233.90
Mar. 15, 1916—S "A" 50 E Third E 50 xS 100, Hayward. Nils Quist vs Herman A Thorndike.....$73.98
Mar. 15, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Fred W McDonald vs Marion H Dunham.....$19.40
Mar. 16, 1916—LOT 8 BLK "K" Map Grand Avenue Heights-by-th-Park, Okd. A H Bar (Bar Mercantile Co) vs Estelle H and Leo L Nichols.$77.60
Mar. 16, 1916—LOT 7 BLK "K" Map Grand Ave Heights-by-the-Park, Okd. A H Bar (Bar Mercantile Co) vs Estelle H and Leo L Nichols.$65.50
Mar. 16, 1916—E GRAND AVE 350 N Weldon Ave being Lot 8 Blk "K" Map Grand Ave Heights-by-the-Park, Okd. A F Virgil vs Estelle H and Leo L Nichols.....$50
Mar. 17, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. Spott Bros vs E Marshall and O M Bullock..$102
Mar. 17, 1916—E GRAND AVE 350 N Weldon Ave N 50xE 128, Oakland. Hogan Lumber Co vs Estelle H and Leo L Nichols.....$413.69
Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Joost Bros vs L G Auzerais and F A Wilkie $74.52

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME DWELLING
SW NINTH AND SAN ANTONIO STS., San Jose. All work for one-story frame dwelling.
Owner.....J. H. Quinby, San Jose.
Architect...F. D. Wolfe, 1st National Bank Bldg., San Jose.
Contractor..H. A. Bridges, 725 S-7th St., San Jose.
Filed Mar. 3, '16. Dated Mar. 3, '16.
Frame up $738.75
Brown plastered 738.75
When completed 738.75
Usual 35 days..... 738.75
TOTAL COST, $2955.00
Bond, $1477. Sureties, James Beatty and John L. Grus. Limit, 90 days. Forfeit, none. Plans and specifications filed.

LOT 3 BLK 13, Hanchett Park, San Jose. All work for frame dwelling.
Owner.....E. A. Austin, Iditarod, Alaska.
Architect...None.
Contractor..S. G. Pelton, 217 S-First St., San Jose.
Filed Mar. 3, '16. Dated Mar. 2, '16.
Frame up ..... ¼
Brown plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $2287.25
Bond, $1300. Sureties, Ida M. Pelton and Ella O. Ferguson. Limit, 90 days. Forfeit, none. Plans and specifications filed.

NO. 135 S-FIRST ST., San Jose. All work for store front in shoe store.
Owner.....Bloom's Star Shoe Store by Max Brown, Premises.
Architect...C. McKenzie, Bank of San Jose Bldg., San Jose.
Contractor..J. C. Thorpe, Porter Bldg., San Jose.
Filed Mar. 7, '16. Dated Feb. 16, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $1623
Bond, $900. Sureties, J. M. Zollars, Janet Thorpe and E. A. Zollars. Limit, 40 days. Forfeit, none. Plans and specifications filed.

SE TERRAINE AND DEVINE STS., San Jose. All work for one-story frame cottage.
Owner.....W. I. Geoffroy, 151 Terraine, San Jose.
Architect...C. W. McKenzie, Bank of San Jose Bldg., San Jose.
Contractor..H. P. Ledyard, Bank of San Jose Bldg., San Jose.
Filed Mar. 10, '16. Dated Mar. 7, '16.
Frame up $530
Brown plastered 530
When completed 530
Usual 35 days..... 530
TOTAL COST, $2120
Bond, $1100. Sureties, J. C. Corcoran & Otto Schuabel. Limit, 80 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS.

SAN MATEO COUNTY.

PORTOLA ROAD. Residence property of Mr. Franklin A. Zane. All work except window shades and lighting fixtures for private garage with living rooms on 2nd floor.
Owner.....Franklin A. Zane, Prem.
Architect...T. L. Pflueger, 1015 Guerrero, San Francisco.
Contractor..A. Klahn & Son, 27 Chenery, San Francisco.
Filed Mar. 13, '16. Dated Mar. 10, '16.
Roof on, etc.....$650
When completed 990
Usual 35 days..... 550
TOTAL COST, $2190
Bond, $1100. Surety, London & Lancashire. Indemnity Co. of America. Limit, 36 days. Forfeit, none. Plans and specifications filed.

LIENS FILED

SAN MATEO COUNTY.

RECORDED AMOUNT
Mar. 10, 1916—LOT 25 BLK 1 Map 2 of Burlingame Terrace. San Mateo Planing Mill Co vs Alfred B Elford and D Charles Scanlon.....$861.01
Mar. 10, 1916—LOT 25 BLK 1, Burlingame Terrace No. 2, Burlingame. Pittsburg Water Heater Co. of Cal. vs D Charles Scanlon and Alfred B Elford $59.50

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Feb. 19, 1916—POPE ST. AND PALO Alto Ave, Palo Alto. J M Moore to Currie & Currie.....Feb. 9, 1916
Mar. 11, 1916—SAN JUAN HILL, Stanford University, Palo Alto. H R Fairclough to H L Upham.....March 11, 1916
Mar. 13, 1916—SE S-FIRST AND SAN Carlos, San Jose. F S and Seymour Montgomery and Jno Twohy to Z D Field.....March 11, 1916
Mar. 1, 1916—½ LOT 5 and Lot 6 6 Blk 3, Caldwell Sbdvn, San Jose. S E Thomson to whom it may concern .....Feb. 29, 1916
Mar. 1, 1916—LELAND STANFORD Jr University Campus, Palo Alto. Leland Stanford Jr University Trustees to E A Hettinger.....Feb. 23, 1916
Mar. 1, 1916—W LOCUST, bet. Grant and Virginia, San Jose. A Serventc to S Di Cola and E Scotti. Mar. 4, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
Mar. 3, 1916—BLK 78 170 feet on Pope St. and 200 feet on Palo Alto Ave, Palo Alto. W Southwood vs J M Moore.....$196
Mar. 4, 1916—COR POPE ST. & PALO Alto Ave, Palo Alto. National Mill & Lumber Co vs J M Moore.....$752.50
Mar. 6, 1916—COR. POPE ST & PALO Alto Ave, Palo Alto. Bennett Bros vs J M Moore $91.75
Mar. 7, 1916—COR. POPE ST. & PALO Alto Ave, Palo Alto. G H Bentley vs J M Moore.....$389
Mar. 7, 1916—COR. POPE ST. & PALO Alto Ave, Palo Alto. Gray-Thorning & Co vs J Olsen and J M Moore $75.25
Mar. 7, 1916—COR. POPE ST. & PALO Alto Ave, Palo Alto. Gray-Thorning Lumber Co vs Currie & Currie and J M Moore.....$683.10
Mar. 8, 1916—COR. POPE ST. & PALO Alto Ave, Palo Alto. H B Morey & Sons vs Currie & Currie and J M Moore $173.74
Mar. 10, 1916—COR POPE ST & PALO Alto Ave, Palo Alto. F Andrews, $20; Palo Alto Hardware Co, $65.88 John Dudfield Lumber Co, $10.13 vs J M Moore.....

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Mar. 11, 1916—HIGHLAND PARK, Menlo Park. Edward Livingston to L Cereghino & Son...Mar. 6, 1916
Mar. 11, 1916—MONTARA SCHOOL District. Montara School to D F Meyer.....Mar. 1, 1916

BUILDING CONTRACTS.

CONTRA COSTA COUNTY.

WAREHOUSE
SOUTH OF WAREHOUSE NO. 1 and E of warehouse No. 4 in Company's land at Crockett, Cal. Furnish and install all materials and everything requisite for and to construct, execute, finish and complete all work as in plans for new warehouse.
Owner.....California Hawiian Sugar Refining Co., Crockett.
Architect...None.
Contractor..The Yager Sheet Metal & Plumbing Co., 3509 Chestnut, Oakland.
Filed Mar. 13, '16. Dated Feb. 18, '16.
Payments not given.....
TOTAL COST, $1485.50
Bond, $2224.25. Surety, National Surety Co. Limit, within 90 days. Forfeit, none. Plans and specifications filed.
COTTAGES, ETC.
AT COMPANY'S PPTY AT Avon, Cal. All work as in plans and specifications for one garage, 2 four-room cottages, one club house, 13 five-room cottages.
Owner.....Associated Oil Co., Sharon Bldg., San Francisco.
Engineer...A. F. L. Bell, Sharon Bldg., San Francisco.
Contractor..Ward & Goodwin, 110 Jessie, San Francisco.
Filed Mar. 13, '16. Dated Mar. 3, '16.
On 10th day of each month during progress of work, contractor shall be entitled to receive payments of 75% of value of labor performed and materials used by the contractors during preceeding calendar month .....
Usual 35 days..... 25%
TOTAL COST, $38,200
Bond, $19,100. Surety, Guardian Casualty & Guaranty Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

SPUR TRACK, ETC.
AT COMPANY'S PLANT AT AVON, Cal. Excavate tank sites, construct levees, and construct earth dams, also fill in ground for spur track as in plans and specifications.
Owner.....Associated Oil Co., Sharon Bldg., S. F. and Avon, Cal.
Architect...A. F. L. Bell, Sharon Bldg., San Francisco.
Contractor..W. F. Price, Concord, Cal.
Filed Feb. 29, '16. Dated Jan. 22, '16.
On 10th day of each month contractor shall receive certificate from engineer stating amount of pay material moved during the preceeding month and payment for 75% of the value of work ...

Usual 35 days..... 25%
TOTAL COST, $——
Bond, $2000. Surety, ——. Limit, Contractor to state number of days. Forfeit, none. Plans and specifications filed

RESIDENCE
LOT 4 BLK 2 AUSTIN TCT, Martinez, Cal. All work set forth in plans and specifications for residence.
Owner.....Frank J. Barnard, 608 Green St., Martinez.
Architect ...None.
Contractor..Peterson Bros., Martinez.
Filed Mar. 8, '16. Dated Feb. 29, '16.
Floor joists on..... 25%
Plaster on 25%
When accepted 25%
30 days after..... 25%
TOTAL COST, $2350
Bond, none. Limit, 40 working days. Forfeit, none. Plans and specifications filed.

FRAME CHURCH
SW SALVIA AND CALIFORNIA STS., Concord. All work for one-story and basement frame church.
Owner.....Trustees Concord Presbyterian Church, Concord.
Architect ...Francis W. Reid, 1725 6th Ave., Oakland.
Contractor..P. M. Sanford, 610 Macdonald Ave., Richmond.
Filed Mar. 8, '16. Dated Mar. 3, '16.
Rough frame ready for sheathing $1000
Inside plaster completed and exterior wired and papered..... 1000
Outside completed and inside ready for painting..... 1000
Completed and accepted..... 1275
Usual 35 days..... 1425
TOTAL COST, $5700
Bond, $2850. Sureties, J. D. Plate and F. B. Hood. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY.

RECORDED ACCEPTED
Mar. 8, 1916—BLK 63, Official Map City of Pittsburg. C A Hooper & Co to Geo Nickell & Robert Old.. .....Feb. 29, 1916
Mar. 7, 1916—IN OR NEAR TOWN OF Martinez and formerly known sa Cutler of Frazer Tract. Shell Co. of California, Inc. to Petroleum Iron Works Co.....Mar. 3, 1916
Mar. 6, 1916—ON SCHOOL PPTY, Pittsburg. Trustees of Pittsburg School District to Carl J Frick..... .....Feb. 1, 1916
Mar. 2, 1916—SOUTHERLY PTN Lots 5, 6, 7 and 8 Blk 318, Additional Survey of Martinez. Frank Prosser to C D Mohr.....Mar. 1, 1916

LIENS FILED

CONTRA COSTA COUNTY.

RECORDED AMOUNT
Mar. 1, 1916—LOT 2 BLK 3, Original Survey of Town of Martinez. J O Baker vs Emile Collatis.....$134

COMPLETION NOTICES.

CONTRA COSTA COUNTY.

RECORDED ACCEPTED
Mar. 15, 1916—LOT 7 BLK 21, Richmond Blvd Tract, Richmond, Cal. Luigi Gallitta to G Moriconi..... .....March 14, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

ALTERATIONS
15-16 BLK 64, Fresno. Alterations on 2nd floor.
Owner.....T. C. White, 1251 F St., Fresno.
Architect ...None.
Contractor..R. Peterson Co.
COST, $1000

DWELLING
LOTS 9 AND 10 BLK 6, Arlington Heights, Fresno. Dwelling.
Owner.....L. P. Martin, 216 Isabella St., Fresno.
Architect ...None.
Day's work. COST, $1000

DWELLING
IOWA AVE., Fresno. Dwelling.
Owner.....W. S. Halliday.
Architect ...None.
Day's work. COST, $1400

DWELLING
LOT 1 Inns Addition, Fresno. Dwelling.
Owner.....E. F. Daw.
Architect ...None.
Day's work. COST, $1250

BUILDING CONTRACTS

SACRAMENTO COUNTY.

OIL TANK
NO. 700 J ST., on N 90 feet Lot 1 J, K, 7th and 8th Sts., Sacramento. 1800-gallon oil tank on office building.
Owner.....California National Bank, 516 J St., Sacramento.
Architect ...None.
Contractor..Kiernan & O'Brien, 1756 Mission, San Francisco.
COST, $4000

FRAME DWELLING
NO. 2200 EIGHTEENTH ST., on Lot 6133 Mission Trecho, Sacramento. One-story six-room and bath frame dwelling.
Owner.....Joseph Edenhofer, 3011 Cypress Ave., Sacramento.
Architect ...None.
Day's work. COST, $2200

COLD STORAGE PLANT
NO. 1011 K ST., on W ½ of S ½ Lot 7 J, K, 10th and 11th Sts., Sacramento. Install cold storage plant in basement of building.
Owner.....Sutter Candy Co., Lessee.
Architect ...None.
Contractor..York California Constr. Co., 832 Folsom, S. F.
COST, $1750

ADDITION
NO. 1205 THIRD ST., on S 30 feet of N 60 feet Lot 1 L, M, 3rd and 4th Sts., Sacramento. One-story and basement addition to rear of building.
Owner.....A. M. Parra, 317 P St., Sacramento.
Architect ...None.
Contractor..C. J. Guth, 1516 27th St., Sacramento.
COST, $700

FRAME ADDITION
FORTIETH AND D STS., Lot 36 Glen Orchard, Sacramento. One-story frame addition to dwelling.
Owner.....Miss A. Sadler.
Architect ...None.
Contractor..J. A. Pansback, 1020 25th St., Sacramento.
COST, $300

FRAME DWELLLING
NO. 2411 CARNEGIE AVE on Lot 14 Blk J, Highland Park, Sacramento. One-story 5-room and bath frame dwelling.
Owner.....Simon Yorg, 2401 Carnegie Ave., Sacramento.
Architect ...None.
Contractor..F. A. Holdener, 522½ M St., Sacramento.
COST, $2100

ALTERATIONS
NO. 517 I ST., W ½ Lot 6 H, I, 5th and 6th Sts., Sacramento. Remodel front, take down west wall and build same new and new rear wall in brick bldg.
Owner.....George Sellinger, 721 I St., Sacramento.
Architect ...None.
Contractor..A. W. Norris, 3012 G St., Sacramento.
COST, $700

OIL TANK
NO. 1801 THIRTEENTH ST., on Lot R, S, 13th and 14th Sts., Sacramento. Place 2400-gallon oil storage tank in laundry building.
Owner.....D. Duval, B. F. Ivy et al, Park View Apmnts, Sacramento.
Lessee.....Palace Laundry, Park View Apmnts, Sacramento.
Day's work. COST, $300

MAPLE FLOOR
NO. 1117 NINTH ST., on Lot 8 Blk K, L, 9th and 10th Sts., Sacramento. Lay maple floor in Peerless Cafe.
Owner.....Siller Bros., 1614 13th St., Sacramento.
Architect ...None.
Contractor..George Baumgartel, 1426 Q St., Sacramento.
COST, $300

FRAME GARAGE
NO. 1804 G ST., on Ptn Lots 1 and 2 Blk G, H, 18th and 19th Sts., Sacramento. Frame private garage.
Owner.....B. A. Johnson, 1801 G St., Sacramento.
Architect ...None.
Contractor..F. H. Dole, 3629 6th St., Sacramento.
COST, $300

FRAME RESIDENCE
NO. 3101 E ST., on Lot 192 Casa Loma Terrace, Sacramento. One-story six-rooms and bath frame residence.
Owner.....W. D. McKoy, 3029 E St., Sacramento.
Architect ...None.
Day's work. COST, $2500

FRAME RESIDENCE
T ST., bet. Sherman and Wheeler Aves W 40 feet Lots 1356 and 1357 Wright & Kimbrough Tract 29, Sacramento. One-story 5-room frame residence.
Owner.....H. G. Birdsall, 1420 13th St., Sacramento.
Architect ...None.
Day's work. COST, $2350

FRAME GARAGE
NO. 2015 P ST., on E ½ Lot 7 Blk O, P, 20th 21st Sts., Sacramento. Frame private garage.
Owner.....Charles Kemper, Premises.
Architect ...None.
Contractor..E. Thomas, 24th St., bet. T and U Sts., Sacramento.
COST, $300

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Mar. 9, 1916—LOT 42 Dye Chinatown Walnut Grove. W P Fuller & Co vs Milo E. Sperry W and Cordon Dye and Amy Brown, San Lee and Arthur Smith $57.95

BUILDING CONTRACTS.

SAN JOAQUIN COUNTY.

LODI, CAL. All work to complete two story frame stucco residence.
Owner.....Dr. J. E. Nelson, Lodi, Cal.
Architect ...Ralph Morrell, I. O. O. F. Bldg., Stockton.
Contractor..Chas. J. Rice, Lodi.
Filed Mar. 15, '16. Dated Mar. 14, '16.
Basement rough lumber delivered and 1st floor joists in place..$1000.00
Plumbing tested, exterior sheathing on 1500.00
Exterior and interior plastering completed 1000.00
Painting, concrete work and walls 760.25
Hardware set 1000.00
Usual 35 days..... 1753.50
TOTAL COST, $7013.75
Bond, $3507. Sureties, Geo. L. Meissuez and W. A. Spooner. Limit, 90 days. Forfeit, none. Plans and specifications filed.

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Mar. 14, 1916—32 LOCKEPORT on E bank of Sacramento River, Ptn of certain Farm known as Geo. W. Locke & Son Mound Ranch. Geo W Locke & Son as to improvements on leased property; work done by Ah Cho and Kim Kee.....

LIENS FILED

SONOMA COUNTY.

RECORDED AMOUNT
Feb. 21, 1916—ANALY TOWNSHIP. H P Fiske vs Minnie E Stancliffe $224
Feb. 29, 1916—SCHELLVILLE. R E Murphy vs Anna H Borden.....$400

BUILDING CONTRACTS

SONOMA COUNTY

FRAME SCHOOL
SEBASTAPOL, CAL. All work for frame school.
Owner.....Gold Ridge School District
Architect ...None.
Contractor..Stedman & Shelley.
Filed Mar. 2, '16. Dated Feb. 16, '16.
Foundation laid and material on ground $500
Frame up and sheathing on roof. 500
Completed and accepted..... 500
Usual 35 days..... 595
TOTAL COST, $2095
Bond, $1050. Sureties, R. Cunningham and G. D. Sanborn. Limit, 135 days. Forfeit, none. Plans and specifications filed.

Directors Elected.

Builders' Exchange of San Francisco Re-elects Their Old Board of Directors.

The most spirited election ever held in the history of the Builders Exchange of San Fancisco took place yesterday at their headquarters, 180 Jessie street, when 257 ballots were cast.

The unusual interest was caused by the activity of the Building Trades Employers' Association backing a ticket, pledged to effect the consolidation of the building interests under one roof. The old Board of Directors also went on record as in favor of the same result. The election showed, however, that the members at large preferrd to leave the details of such matters to the old guard.

The following is a complete report of the election returns:

*H. Maundrell, 195.
*J. D. McGilvray, 179.
*E. J. Brandon, 179.
*C. W. Withington, 178.
*Alex Mennie, 172.
*R. J. H. Forbes, 157.
*Wm. Hayes, 154.
*F. P. Fisher, 150.
*E. S. Rainey, 145.
*Henry Jacks, 122.
*Geo. F. Forderer, 103.
E. Hogberg, 93.
J. W. Bender, 85.
Thos. Elam, 84.
W. H. George, 81.
H. J. Ralston, 79.
Wm. Scott, 76.
I. W. Coblrn, 60.
E. C. Pitcher, 60.
R. J. Guyett, 59.
W. S. Greenfield, 58.
J. E. Gilson, 43.
Walter N. Reed, 41
Roy Mauvais, 25.

* Elected.

Chas. J. McDonnell, who had served as a member of the Board of Directors for the past two years, declined to again be a candidate for re-election, because he is too busily engaged in the practice of the law to devote his time and attention as a member of the Board.

His place was filled by Geo. F. Forderer.

UNITED STATES CIVIL SERVICE EXAMINATION.

ENGINEER-ECONOMIST (MALE).

April 18, 1916.

The United States Civil Service Commission announces an open competitive examination for engineer-economist, for men only. From the register of eligibles resulting from this examination certification will be made to fill vacancies in this position in the Office of Public Roads and Rural Engineering, Department of Agriculture, Washington, D. C., at salaries ranging from $2,000 to $2,500 per annum, and vacancies as they may occur in positions requiring similar qualifications, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer or promotion.

The duties of this position will involve questions of organization, questions of the various phases of financing public improvements, the correlation and economic disposition of equipment, the installation and operation of adequate systems of cost keeping and reports, the dissemination of knowledge by means of lectures and papers (referred to as extension work), and in some cases the supervision of road construction and maintenance.

Competitors will not be assembled for examination, but will be rated on the following subjects, which will have the relative weigths indicated:

Subjects.	Weights.
1. Education	20
2. Experience in the practice of engineering	40
3. Experience in economic and extension work	40
Total	100

Persons who meet the requirements and desire this examination should at once apply for Form 1312, stating the title of the examination for which the form is desired, to the United States Civil Service Commission, Washington, D. C.; the secretary of the United States Civil Service Board, post office, San Francisco.

NEW STEAMSHIP COMPANY FORMED

NEW YORK—The Garland Steamship Corporation, capitalized at $1,900,000, incorporated at Albany by William M. Campion of New York, George C. Allen of White Plains and Wesley W. Cheek of Arlington, N. J. Allen, who is director of the British American Tobacco Co. says the new corporation expects to put five ships into commercial trade soon, operating on the Atlantic and Pacific oceans. They will carry tobacco principally.

CONSTRUCTION WORK ABROAD.

CHINA.

Details of Large Building Scheme Under Way.

Additional information is herewith given regarding the important building operations planned at Shanghai.

There are to be 16 buildings, 6 stories high, of reinforced concrete. Steel windows will make an appearance for the first time in Shanghai, and are to be supplied by a British firm. There will be about 20 elevators, and the promoter is negotiating with an American company for them. Tenders for the installation of steam-heating apparatus are now being considered from British and American manufacturers. Plumbing material for toilet and bath, and the hot-water system, are to be supplied by an American company.

The contract calls for the completion of a block of four buildings every 1¼ years, so that the entire scheme will take 5 years. The total cost of the undertaking will be about $1,800,000 United States currency.

Chinese City in Course of Construction.

In the Sinza district of the International Settlement a Chinese city of 800 two-story houses of brick is now in course of construction. These houses will be semiforeign—the exterior like a foreign house, the interior in Chinese style. In the center of this Chinese city is to be erected a reinforced concrete market, where shops for everything needed in the Chinese home will have an appropriate place. The material used in this construction is all local. It is expected that this city will be completed in six months at a total cost of about $600,000 gold.

Modern Residences Under Construction

A British company, having an American managing director as well as American architects, is constructing 17 high class modern brick residences in the French Settlement of Shanghai. All

these houses will have hot aud cold water, tiled bath rooms, kitchens, and pantries. The company has also acquired land for the erection of about 100 similar high class modern residences in the French and International settlements of Shanghai. The bricks are obtained from local brick factories. Oregon pine and Philippine hardwood are imported. All hardware is of American manufacture. Doors and sash are shipped from California; glass, plate glass, and sanitary fittings from the United States. Tiles are imported from Belgium; the company finds Belgian much cheaper than the American tiles. Paints, oils, and varnishes come from the United States. The company plans to introduce American gas heaters for these new houses, as the majority of the prospective purchasers will be British, who, it is known, are averse to having steam heat in their homes.

[A list of architects and builders in Shanghai may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 72863.]

AUSTRALIA.

Private Interests May Build Western Railway.

Recently an offer was made by two of the leading business men of Hobart to construct a railway from Hobart to the west coast of Tasmania. There has been a demand for this railway for a number of years, but as the State of Tasmania had not been in a financial position to construct it, some years ago it offered certain grants to a syndicate as a bonus for the work. The syndicate did not take advantage of this offer, and now the business men mentioned have offered to construct the road if the Government will give them the same terms that were offered to the syndicate.

The railway would develop a large and rich section of Tasmania. It would be about 140 miles long, and would cost between $4,000,000 and $5,000,000. An Australian firm had offered to build the road for $30,000 per mile for the old syndicate, if the latter would furnish the rails and fastenings which would cost about $700,000 delivered, while for the same work an English firm made a bid of slightly less than $400,000. At present with higher costs, it is safe to assume that the total outlay would not be far from $5,000,000 in case Parliament agrees to accept this offer.

NOTE:—The names of the two business men mentioned in this dispatch may be obtained from the Bureau of Foreign & Domestic Commerce, Customhouse, San Francisco. Refer to file No. 72839.

DEPARTMENT OF THE INTERIOR.

BUREAU OF MINES.

New Publications. List 42.—March, 1916

BULLETINS.

Bulletin 86. Some engineering problems of the Panama Canal in their relation to geology and topography, by Daniel F. MacDonald. 1915. 86 pp., 29 pls., 9 figs.

Bulletin 89. Economic methods of utilizing Western lignites, by E. J. Babcock. 1915. 74 pp., 5 pls., 5 figs.

Bulletin 114. The manufacture of gasoline and benzene-toluene from petroleum and other hydrocarbons. 1915. 268 pp., 9 pls., 45 figs.

TECHNICAL PAPERS.

Technical Paper 93. Graphic studies of ultimate analyses of coals, by Oliver C. Ralston, with a preface by Horace C. Porter. 1915. 41 pp., 3 pls., 6 figs.

Technical Paper 129. Metal-mine accidents in the United States during the calendar year 1914, compiled by Albert H. Fay. 1915. 96 pp., 3 figs.

MINERS' CIRCULAR.

Miners' Circular 20. How a miner can avoid some dangerous diseases, by A. J. Lanza and Joseph H. White. 1915. 24 pp., 4 figs.

NOTE:—Only a limited supply of these publications is available for free distribution, and applicants are asked to co-operate in insuring an equitable distribution by selecting publications that are of especial interest. Requests for all papers can not be granted. Publications should be ordered by number and title. Applications should be addressed to the Director of the Bureau of Mines, Washington, D. C.

BRITISH CHAMBER OF COMMERCE AT SWATOW.

Consul George C. Hanson, at Swatow, China, reports, under date of January 25, that a British chamber of commerce has been formed at that city, and that American chambers of commerce and merchants interested in the South China trade should take note. There is no other foreign chamber of commerce at Swatow.

SEWER PIPES FROM HAWAIIAN MOLTEN LAVA.

The making of sewer pipes and bricks of the molten lava from the active volcano Kilauea is advanced as a business proposition by W. S. Townsend, a retired Ohio manufacturer of sewer pipes, who visited the Hawaiian Islands in February. The volcano is on the island of Hawaii, 32 miles from Hilo, and reached directly by automobile over a smooth road that dips down through a break in the wall of the old crater to the floor of dead lava and thence almost to the brink of the pit of Halemaumau (House of Everlasting Fire).

Mr. Townsend declared that, with proper machinery, pipes could be molded from the lava in exactly the same manner as pipes are molded from molten materials in foundries. He advanced a plan to erect endless bucket conveyers that would bear the lava out of the pit, the buckets to be made of a special material capable of withstanding heat up to 2,000 degrees F. (The research work now being carried on under the direction of Prof. T. A. Jagger, of the Massachusetts Institute of Technology, has proved that the temperature of the molten lake is about 1,800 degrees F.) Mr. Townsend expressed the belief that the lava would remain liquid during the short time it would be on the way to the molds, which could be placed in a building near the edge of the crater.

For the past 10 years the Lava Brick Co., of Honolulu, has been making building bricks from lava rocks. Its plant is located in the district of Kaimuki, where there is a vast outcropping of lava rocks from ancient volcanic flows. These bricks are gray in color and have been used extenisley in the construction of buildings and particularly in sewer, manhole, and fireplace work. Mr. Townsend's idea was considered quite unique in Honolulu when made public and has been taken seriously.

STATE WATER COMMISSION.

The State Water Commission has received an application from W. L. Shaffer of Senaca, Plumas County, asking permission to appropriate 400 second feet of water, or 1600 miner's inches, from the North Fork of the Feather River for mining and milling purposes. The works contemplate a concrete and masonry dam, with ditch, pipe line and flume two miles in length. There is a total fall of 80 feet vertically, which is figured to produce 2,000 theoretical horsepower, to be developed at an electric plant. The works are to be located at Scotts Bar, 1½ miles below the point of intake, and at Seneca Gold Mine Co.'s mine and Van Winkle mines, half a mile further down. The estimated cost of the improvements is $45,000. (254).

Walter and Christian Terkelsen of Ferndale have applied to the State Water Commission for permission to appropriate one and one-half second feet of the waters of Williams Creek in Humboldt County for agricultural purposes. Two dams are included in their plan to irrigate 40 acres, with a portable pump, which will be moved from one dam to the other, using a pipe line 1,000 feet in length to conduct the water to the required places. The estimated cost is $600. The witnesses for the applicants are A. W. Blackburn and Geo. N. Luna of Ferndale. (255).

E. R. Walker of 607 J street, Sacramento, has opplied to the State Water Commission for permission to appropriate 200 second feet of water from the South Fork of the American River for agricultural purposes. The engineering data on the diversion works is not complete, neither has the estimated cost been determined, but the project is one of considerable magnitude, comprising a storage reservoir with a capacity of 50,000 acre feet or 16,335,000,000 gallons, also a main canal some 35 miles in length. The lands to be irrigated are in Sacramento and Placer Counties. (256).

The White & Friant Lumber Co. of Chicago have made application to the State Water Commission for permission to appropriate 25 second feet of water from Sand Creek in Madera County to be used for fluming and lumbering purposes. There is a storage reservoir of 12,410 acre feet capacity connected with the works. The natural flow of Sand Creek does not amount to the quantity of water asked for, but by means of the reservoir storage capacity, applicants figure to obtain that average continuous flow through the dry season also. (257).

Some time ago the Sespe Light and Power Company of Los Angeles applied to the Water Commission for permission to appropriate water for a project which contemplated among other things, the irrigation of some 30,000 acres of land in Ventura County. The company has now made a separate application for permission to appropriate 125 second feet for power purposes, namely the generation of electricity for commercial use. The application sets forth a proposed main canal and pipe line nine miles in length; a diversion dam 175 feet high, 220 feet

on top and 75 feet on bottom. The dam construction is of loose rock, concrete, masonry and rip-rap, with waste-way around dam. There is a storage reservoir of 57,750 acre feet or nearly 19,000,000,000 gallons. By a fall of approximately 1,000 feet it is proposed to generate about 3,000 theoretical horsepower. The estimated cost of the Sespe project is $2,000,000. (259).

Claude A. Strahley of Dixieland, Imperial County, has applied to the State Water Commission for permission to appropriate 150 miner's inches of the waters of Cariso Creek, a tributary of the San Felipe River. He intends to divert the water by means of 26 H. P. pumping plant, carrying the water by means of a ditch half a mile long to 160 acres of land at an estimated cost of $1200. H. L. Welch and Kate E. Oldham of El Centro are witnesses for applicant. (261).

Mr. Strahley also makes application for another diversion of 50 miner's inches from a near-by point. By means of a diversion dam and ditches at a cost of $800, he intends to carry additional water to the same lands. (262).

John Silva of Fort Jones, Siskiyou County, has been granted a permit by the State Water Commission to appropriate 2¼ second feet of the waters of Scott River in that county for agricultural purposes. The water is to be diverted by means of a pumping plant and a pipe line 4,500 feet in length, raising the water 55 feet to 329 acres at an estimated cost of $4,000. (55).

Blanche D. Morton has been granted a permit by the State Water Commission to appropriate 3 second feet of the waters of Big Salada Creek in Stanislaus County, near Patterson, for the purpose of irrigating 280 acres at a cost of $1,500. (58).

L. O. Reese and C. H. Mathews of Ruth, Trinity County, have been granted permission by the State Water Commission to appropriate 3 miner's inches of the waters of Rowski Creek in that county for agricultural purposes. The water will be conducted by 2,000 feet of galvanized iron pipe to the land to be irrigated. (61).

Wm. J. Newenham of Neuralia, has been granted a permit by the State Water Commission to appropriate one second foot of the waters of Red Rock Canyon in Kern County, for irrigation purposes. A pipe line 4,650 feet long will carry the water to 80 acres. (63).

Georges Fusenot of Los Angeles has been granted a permit by the State Water Commission to appropriate 6 miner's inches of Wards Canyon and Oak Canyon in Los Angeles County for irrigation of 200 acres. A pipe line 4,200 feet long will carry the water at an estimated cost of $1,000. (64).

A. S. Hinkley and W. H. Hawken of Modesto have been granted a permit by the State Water Commission to appropriate two second feet of the waters of Wilson Creek in Mono County, tributary to Mono Lake. By a fall of 440 feet, it is proposed to generate electricity to the extent of 100 theoretical horsepower. The plant proposes a tangential water wheel direct connected to an electric generator, which will supply heat, light and power to operate milling machinery. The Commission has imposed a condition that the water, after its use for power, shall be returned to the creek by such conduit as will eliminate transmission loss. The estimated cost is $2,500. (65).

UNITED STATES CIVIL SERVICE EXAMINATION.

MECHANICAL AND ELECTRICAL INSPECTOR (MALE).

April 19, 1916.

The United States Civil Service Commission announces an open competitive examination for mechanical and electrical inspector, for men only, on April 19, 1916. From the register of eligibles resulting from this examination certification will be made to fill vacancies in the position of foreman of power plant at the Naval Proving Grounds, Indian Head, Maryland, at $6.72 per diem, and vacancies as they may occur in any navy yard or other naval establishment of the United States or in the Department at Washington, D. C., in positions requiring similar qualifications, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer or promotion.

In filling vacancies in navy yards and other naval establishments certification will be made of the highest eligibles examined in the vicinity of the place at which the vacancy occurs, except that upon the request of the Navy Department certification will be made of the highest eligibles on the register for the entire country who have expressed willingness to accept appointment where the vacancy exists.

The contemplated horsepower in the new power plant at the Naval Proving Grounds, Indian Head, Maryland, is more than 7,500, consisting of turbo-generators, circulating pumps, air pumps and compressors, rotary converters and auxiliary equipment in connection with a large modern steam and electric power plant.

The duties of the position will consist in inspecting and supervising the installation being erected under contract for the Navy Department and conducting acceptancy tests upon the same in order to insure safety and durability and to oversee the operation of those portions of the power equipment already in operation at the Naval Proving Grounds. After completion the appointee will be placed in charge of the plant if his services prove satisfactory.

Competitors will be examined in the following subjects, which will have the relative weights indicated:

Subjects.	Weights.
1. Mathematic and practical calculations (comprising arithmetic, algebra to and including problems involving quadratics, geometry, elementary problems in mechanics, use of slide rule, and the correct working out of results from given formulae.....	25
2. Theory and practice of mechanical and electrical engineering, comprising theory, nomenclature, practical computations, and the construction and operation of simple machines and apparatus (competitors will be given a choice of questions on this subject)	35
3. Training and experience.....	40
Total	100

Persons who meet the requirements and desire this examination should at once apply for Form 1312, stating the title of the examination for which the form is desired, to the United States Civil Service Commission, Washington, D. C., or the Secretary of the United States Civil Service Board at San Francisco, Sacramento and San Jose.

PREPARATION OF PURE IRON AND IRON-CARBON ALLOYS.

A report on the preparation of pure iron and iron-carbon alloys has been prepared by the United States Bureau of Standards and is given in Scientific Paper No. 266 of the publications of that bureau.

It is shown that previous work on the iron-carbon diagram is unsatisfactory because of the great uncertainity of chemical composition of the materials used. It was therefore thought necessary to produce a series of alloys of great purity to form the basis of a redetermination of the diagram at the Bureau of Standards.

The general method pursued consisted in melting electrolytic iron with sugar carbon in magnesia crucibles. The electrolytic iron was prepared from ingot iron anodes in a chloride bath, with or without the use of porous cups. The operation of melting the iron with carbon gave great trouble at first, because the ingots obtained were full of blowholes and contained considerable quantities of impurities. The difficulties were overcome by melting in a vacuum furnace and making crucibles of especially pure magnesia made and calcined with great care at the Bureau of Standards. A satisfactory procedure was finally worked out and a series of alloys prepared, of the composition Fe plus C equal 99.96 per cent.

BUREAU OF STANDARDS WORK WIDELY STUDIED.

Among the visitors to the Bureau of Standards recently were three technical men from the S. S. White Dental Manufacturing Co. seeking information on metals and cements used in dental practice; the chief refiner of the American Sugar Refining Co., to inspect the sugar laboratories; a lieutenant commander of the United States Navy, requesting test of aeroplane instruments; a Japanese metallurgist, to inspect the metallurgical laboratory; a manufacturer of glasses for the protection of the eyes of rolling-mill workmen; the chief chemist of a large soap factory concerning certain chemical processes; a representative of the United States Office of Public Roads, concerning concrete; and the special counsel of the United States Chamber of Commerce, concerning the fireproofing of steamers.

IMPROVED CONDITIONS IN DURANGO.

The American vice consul at Durango, Mexico, reports under date of February 11 that general conditions in the region of Durango are improving. Trains now run regularly to Torreon from Durango; also to the end of the branch line toward Zacatecas, and since the beginning of February have been running as far north as Santiago Papasquiaro.

The military chief of operations in the State of Durango has expressed to the consul his desire that American mining enterprises re-open in that region and has offered to provide all proper facilities to that end. The consul informed the military chief that he could hardly advise Americans to return with the expectation of beginning work immediately until the district is better pacified and conditions in the outlying mountainous districts are so improved and are garrisoned so that the miners could get immediate help, in case of attack by lawless bands. The consul informs the State Department that it ought to be possible, within two or three months, to give consideration to the advisability of representatives of the larger mining interests returning to the district, in order to go over the situation in a preliminary way.

The supply of food, of which corn and wheat are the staple items, is becoming depleted, and imports from the United States will probably soon be necessary.

CHANGES IN STREET NAMES IMPOSSIBLE AT THIS TIME.

If the plan of changing street names, as suggested by Dr. J. F. Wetzel to the Supervisors, is carried out Wm. H. Griffin the city house numbering inspector would have a big job on his hands.

Wetzel's plan recommends the changing of most street names in the city, also the changing of house numbers to such new names and proposes to designate a certain section of the city as "East" San Francisco. A few of the many changes as suggested by Wetzel are: Lewis street to be named Second street; Sutter and Clement streets changed to Twenty-fifth street; Hayes and Ninth streets to Thirty-sixth street; Broadway to Sixteenth street; Davis and Texas streets to Second avenue; Van Ness avenue and Capp street to Eighteenth avenue and others, all these being suggested without regard to the geographical contour or lay of the ground.

Griffin in his report to the Works Board states that the scheme is impractical and that its enforcement or attempted enforcement might be the means of inciting an uprising among the people of the city and further states that it and other proposed systems of renaming and renumbering streets is impracticable at this late date as it would throw the entire community into confusion for years to come.

HANFORD'S SEWER FARM A MENACE.

HANFORD, Cal.—Citizens living near the city sewer farm have filed a petition with the Supervisors, declaring the sewer farm a menace to public health. There were 200 names on the petition

RICE MILL PLANNED.

The erection of the largest rice mill in the world is planned by the Sutter Basin Company, which is developing 70,000 acres of tule land in Sutter county. The mill will be large enough to care for all the crops to be raised in Yuba and Sutter counties for several years to come and also to handle the crops from the company's own lands, which will be planted to rice as soon as reclaimed.

NATIONAL CHAMBER DIRECTORS TO MEET IN KANSAS CITY.

WASHINGTON, D. C.—A meeting of the Board of Directors of the Chamber of Commerce of the United States will be held in Kansas City, Thursday and Friday, March 16 and 17. Among the important matters which will come up for consideration is the selection of a chairman of the Executive Committee to succeed R. Goodwyn Rhett, of Charleston, S. C. Mr. Rhett was recently elected president of the National Chamber. He is a prominent lawyer and banker of the South.

There will be an official canvass by the Board of the votes cast in the Seamen's Act referendum. The suspension of certain provisions of this much discussed law was recommended by a committee of the National Chamber the latter part of January. As a result of this action a referendum was sent out giving the important commercial bodies of the country an opportunity to vote on the report. Business men, not only where shipping is the heaviest, but throughout the United States, were thus given a chance to express themselves. The results will be considered at the Kansas City meeting.

Hospitality will be extended by the Kansas City Commercial Club, which is an affiliated member of the National Chamber, and an opportunity will be afforded for the visitors to see the city and meet its prominent men in commerce and industry.

President Rhett will address the Peoria Association of Commerce on Tuesday, March 14. The occasion of his visit will be the annual meeting dinner of that organization. Another speaker will be William R. Moss, Vice President of the Illinois Commercial Federation. It is expected that about 600 will attend.

A NEW MARBLE IN MONTANA.

A new kind of marble has been discovered in great quantities in Livingston, Mont., by H. M. Sitherwood and Harry Kearns. So strong is its resemblance to mahogany, it has been called "mahogany" marble as, despite the many various kinds of marble now being quarried, such a name has not been given any other variety. The claim lies three and a half miles southeast of Livingston, on sectional lines, and is connected by a good road. The claim consists of 200 acres, and accompanying the marble are said to be big deposits of red and yellow ochre, in addition to considerable onyx. No effort has thus far been made to ascertain the depth of the marble formation. Samples taken from the surface and sent to Denver took a remarkably good polish for surface stone.

BUSY SEASON FOR BUILDERS.

A busy season is predicted for the builders of San Francisco. Applications amounting to more than $300,000 in cost were approved by the Board of Public Works at their meeting last Wednesday.

Plans for extensive alterations and new structures continue to pour into the Building Permit Office of the Board, and architects report many new improvements, plans for which will be filed within the next few days for approval.

The application of the California Street Realty Company for a permit to erect a four-story and basement brick and steel office building on the southwest corner of California and Davis streets at a cost of $150,000 was approved by the Board Wednesday. Plans for the structure were prepared by Architects O'Brien Bros. H. Hjul, Mechanics' Institute Bldg., has the contract.

RISE IN NEWSPAPER CAUSED BY BIG WAR.

Explaining why paper is advancing, one of the largest wholesale dealers in paper of San Francisco states that everything which has gone into the manufacture of paper has gone up in price and it is very easy to see why.

In the first place, rags have materially advanced because the shutting off of the foreign supply and because of the large use of domestic rags in the manufacture of guncotton, where to some extent they have taken the place of raw cotton. In the next place, all the chemicals which are used in paper manufacture are very much more expensive than they were formerly, and some of them—noticeably bleach—is almost impossible to secure at any price, as the chlorine gas, which is the essential part of the same, is eagerly sought for war purposes. As a result the price of chemical wood has advanced, the situation being made more acute because the entire European product of this pulp is used abroad instead of being sent in part to this country. Then the serious situation in regard to all dyes and colors is another factor.

In addition to all these things has come the sudden and enormous demand for paper. Our American manufacturers are receiving orders from all over the world because of the inability of European manufacturers to supply their regular customers. Exporters are almost begging for goods at any price in order to meet this sudden and extremely heavy demand. In addition the domestic demand is very quiet.

WHAT INTERESTS THE PRESS.

While the Great Northern Steamship Company is withdrawing "the last American steamship from the transpacific trade" as the press of the country, carefully inspired, and regardless of facts, is announcing, the Spreckels line between San Francisco and Australia, and which thus traverses the Pacific each voyage, has added a ship to the run. The lack of public interest in the Spreckels line, which persists in traversing the Pacific, is that its ships carry crews of American citizens, which her managers have no difficulty in securing for the manning of their ships. The additional employment of American citizens on American steamships does not interest the American press nearly so much as the loss of employment on American ships by Asiatics who do not understand the orders of American officers!—New York Marine News.

GET ON THE RIGHT ROAD.

Hard roads are cheaper than horseflesh.

Drag the roads, not your loads.

Good roads are impossible only to the man who thinks so.

If the roads are to be improved, somebody must give service that can't be paid for in money.

Use system, make your tax dollar look two when put on the road, instead of like thirty cents.

We have to live with dirt roads; make them as good as possible.

There would be no unemployed problem to solve if the road problem was solved.—Canadian Municipal Journal.

TO RAZE OLD PRESIDIO CAR BARNS.

Application has been filed with the Board of Public Works by the United Railroads for a permit to raze the one and two-story frame car barn at the northwest corner of California street and Presidio avenue. The application states that the structure is being demolished to reduce the fire risk. The appearance of the property will be improved by the company at a cost of about $500. Work on razing the structure has already started.

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ERADICATE COMMERCIAL DISEASE SAYS NATIONAL CHAMBER PRESIDENT.

WASHINGTON, D. C.—Not only must we cultivate commercial health, but we must eradicate commercial disease. Such was the opinion expressed by R. Goodwyn Rhett, the newly elected president of the Chamber of Commerce of the United States to various commercial organizations before which he recently spoke. Mr. Rhett addressed the Association of Commerce in Peoria on Mar. 14, the Chicago Association of Commerce, the next day, and the Kansas City Commercial Club later in the week. Commercial disease, Mr. Rhett said, is just as real as physical disease and its prevalence has just as harmful an effect upon industrial growth as the prevalence of physical disease has upon the growth of population.

"One of these commercial diseases is 'pessimism'—which too often masquerades under the synonym of 'conservatism,' Mr. Rhett explained. Pessimism amongst your prominent citizens is a commercial cancer which eats out the heart of enterprise. True conservatism is a balance wheel which is very essential to successful business; but pessimism that sees only failure calamity and disaster for everything existing or proposed is as much to be dreaded as a noxious physical disease would be dreaded by your health department.

"Another commercial disease is commonly known as 'knocking.' It is quite different from pessimism yet almost equally harmful. It is commercial gossip—repeating disparaging rumors about business men and enterprises with an added touch of exaggeration, attributing low or mean motives and finding fault generally, merely because of the pleasure of fault-finding. And then the 'sucker' with his 'What am I to get out of it' sapping your strength with his inordinate selfishness. If you wish your community to flourish industrially and commercially, endeavor to eradicate such commercial diseases as well as to cultivate a genuine co-operative spirit."

Need For National Co-Operation.

Mr. Rhett said that just as it was found that individual efforts in a city or town were futile, and co-operative efforts through local chambers of commerce were necessary for the development and growth of a community, so it has been found that a co-operation of local chambers is equally necessary to secure those larger benefits which can only come to a community from beyond its immediate environments.

"If you stop short of the larger co-operative work," Mr. Rhett said with emphasis, "then you have failed to grasp the full meaning of a modern chamber of commerce. There are many laws being enacted and many things being done which affect your community and a great many others similarly situated. You can only hope to have any influence upon these laws or upon these actions through that same co-operation which you have found effective in local affairs."

Mr. Rhett said that some of these laws and some of these actions spring from the National Capital and must be reached by the co-operation of chambers located in all parts of the land. For instance, he pointed out, there is a body of five men in Washington known as the Federal Trade Commission which has jurisdiction over competition in all trade which extends beyond the borders of each state. It has the power and is charged with the duty of determining whether the competition in which the individual is engaged is fair or unfair, and of putting a stop to it in the event of the latter.

Why There Should be a National Chamber.

Again, the speaker reminded his hearers, the question of a merchant marine for this country has been engaging the attention of Congress for some time and is still engaging its attention. If it were not for the fact that one set of the belligerents controls the sea, our lack of ships under American registry would reduce the price of our grain to a small fraction of what it is bringing upon the markets of the world today. Finallly, he asked the audience if they realized that the change in our banking laws, coming at a critical period in our history, saved this country from a disaster which would have been felt in every section of it.

"These are all matters which can only be reached by some great national organization," Mr. Rhett argued, "formed for the purpose of co-ordinating the local chambers in such a manner as will best protect business and secure for it the widest opportunity for growth and expansion, which the general welfare of the public will permit."

CONSULTING ENGINEER FOR FRESNO IS CONSIDERED.

FRESNO, Cal.—Although there is yet considerable time in which to make a choice Mayor Snow already is considerin the selection of a consulting engineer to go over the ½ million dollar sewer and storm sewer plans prepared by B. E. Cronkite, city engineer. It will be the duty of the consulting engineer, who will be the highest authority obtainable, to check over Mr. Cronkite's plans and specifications to decide on their accuracy, ferret out any economy possible without impairing the quality of the work and pass on the methods of construction and quality and advisability of materials recommended.

Mayor Snow said that he has in mind a consulting engineer who probably would be the best man obtainable. He is not now ready to make any definite announcement, however. The appointment can not be decided until the bond election has carried and the city is ready to proceed.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base, reinforced concrete, $22,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, John Kingston. Location, north Eddy street west of Larkin, covering an area of 25 by 120 feet. Will contain 24 suites of two rooms each. Interior finish pine, elm panels and hardwood floors. Wall beds. Steam heat and hot water supply, oil burning equipment and automatic elevator. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

5 story and base, brick and steel, $85,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, M. A. Little. Location, southwest corner of Bush and Mason streets, covering an area of 62½ by 79 feet. Will contain 47 suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Wall beds, private baths and dumb waiters. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick. Plans complete and segregated figures to be taken by the owner.

SAN FRANCISCO—Apartment house, 2 story and base, frame, $10,000. Architect, none. Owner, L. B. Ham, 274 25th avenue, S. F. Location, north Lake street east of 6th avenue, covering an area of 27½ by 63 feet. Will contain four large residential apartments. Interior finish pine, white enamel and hardwood floors. Central heating system and hot water supply. Bath rooms composition floors. Wall beds. Exterior faced with rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister near Fillmore, covering an area of 40 by 120 feet. Will contain 14 apartments of two, three and four rooms. Interior finish pine. Hardwood floors. Steam heat, oil burning system and hot water supply. Bath rooms tile floors and wainscot. Marble and tile wainscot. Exterior faced with cement plaster and brick veneer. Plans complete and segregated figures being taken.

OAKLAND CAL.—Apartment house, 3 story and base, frame, $90,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Cutting Estate. Location, 19th and Alice streets. Will contain 140 rooms arranged in suites of two, three and four rooms. Hardwood floors. Interior finish pine, hardwood and white enamel. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot in lobby. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

OAKLAND, CAL.—Apartment house alteration, 2 story, frame, $7,000. Architect, H. D. Mitchell, 628 Montgomery street, S. F. Owner, P. A. Dolan. Location, southeast corner of East 14th and 21st avenue. Work will consist of altering a two-story frame dwelling into modern apartments and adding two stories. Wall beds and hot water supply. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND CAL.—Apartment house, 3 story and base. Class C construction, $40,000. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest corner of 22nd and Telegraph. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and elm panels with some white enamel and hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

OAKLAND CAL.—Apartment house, 3 story and base, frame, $30,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, J. Pougade. Location, 14th and Brush streets. Will contain apartments of two and three rooms with wall beds and private baths. Interior finish pine and hardwood veneer. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Exetrior faced with cement plaster. Plans being prepared.

PITTSBURG, CONTRA COSTA CO., CAL.—Apartment house, 2 story and base, frame, $10,500. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, Charles E. Perry. Will contain eight apartments of four rooms and bath. Interior finish pine. Hot water system and wall beds. Marble and tile vestibule. Composition floors in bath rooms. Open fire place in each apartment. Mantels tile and brick. Exterior covered with shingles. Plans complete and figures being taken.

BONDS

CHICO, BUTTE CO., CAL.—A bond issue for $100,000 will be called shortly. The proceeds of the proposed sale, if the issue carries, will be used in financing the enlargement of the present Chico high school. Details of proposed enlargement will be worked out by the Board of Education within the next few days, when a date for the election will be set.

FRESNO, FRESNO CO., CAL.—An ordinance calling for a half million dollar bond election has been passed by the City Council. The election will be held on May 3rd. The bonds, if voted, will be used for the construction of a sewer system and for a storm water drainage system. The ordinance provides for forty serial bonds bearing interest at 4½ per cent.

ROSEVILLE, PLACER CO., CAL.—The City Trustees have accepted plans for the remodeling of the city hall, the work to cost $5,000.

SAUSALITO, MARIN CO., CAL.—The Potash Recovery Co., with a capital stock of $150,000, of which 50,000 shares is preferred stock, was recently incorporated with the following directors: Wm. F. Fisher, Henry Chute, Albert J. Fritz, A. T. O'Connell and W. D. Dunsmere. It is stated that John D. Spreckels, Jr., is back of the new enterprise, which plans the erection of a new building at Sausalito for the manufacture of potash.

WOODLAND, YOLO CO., CAL.—Fred Matter, a local grain dealer, has received word from E. J. Eisenmayer, vice-president of the Globe Milling Co., that the flour mill in Woodland will be remodeled into a first class rice mill, the work to cost about $17,000. Plans for the proposed changes have already been prepared.

MADERA, MADERA CO., CAL.—The city of Madera is unable to finance a bond issue to cover the entire city with sewer and water pipes, according to a decision reached at the last meeting of the Board of Trustees.

A rough estimate of the cost was rendered by City Engineer Stafford. For the sewer system on the north side of the river, including a septic tank, the cost would be about $15,000, and for the Lankershim addition about $11,000, and for the water pipe about $18,000, bringing the total cost up to $44,000. The present bonded indebtedness of the city is $65,000 for sewer and water and $12,000 for the D street bridge.

OXNARD, LOS ANGELES CO., CAL.—Bonds of $51,000 for school purposes carried at an election held last week. A new school will be erected from the proceeds of the sale.

LAKEVIEW, ORE.—An ordinance calling for a $10,000 bond issue for the payment of the town indebtedness, which amounts to $12,000 has been passed by the City Council.

TULARE, TULARE CO., CAL.—The proposition of calling a bond issue to erect a municipal auditorium building is being considered. The proposed issue will call for the sale of $15,000 in bonds.

CALEXICO, IMPERIAL CO., CAL.—Construction of a control gate in the Alamo canal, a railroad along the top of the Volcano Lake levee and other needed improvements in the Mexican division of the irrigation system, are recommended in a report submitted to the directors of Imperial Irrigation District, acting as agent for the Southern Pacific Company, by C. R. Rockwood, agency engineer. Nearly $300,000 will be required to pay the cost of the improvements and maintenance expense on the system in Mexico, according to Rockwood's report.

SANTA ANA, ORANGE CO., CAL.—A special election has been called for April 18th to vote bonds of $100,000 for the erection of new schools.

CHICO, BUTTE CO., CAL. — Announcement has been made here by Richard White, attorney for the Para-

dise Irrigation District, in this county, that a bond election will be called during the late summer to provide for the construction of a dam reservoir, distributing plant and ditches.

The cost of the entire project, which ultimately will include two reservoirs, will be approximately $275,000, but the initial bond issue probably will not exceed $100,000..

Several engineers have filed application for the position of drawing up the plans and taking charge of the work.

BRIDGES, DAMS AND HARBOR WORK

YUBA, SUTTER CO., CAL.—Bridge construction. Cost not stated. Engineer, County Surveyor, Yuba City. Owners, Sutter County. The proposition of building a number of highway bridges was discussed at the last meeting of the Sutter County Supervisors, and action was laid over. Among the structures planned are the proposed drawbridge at Nicolaus, the proposed drawbridge at Grimes, and the completion of the trestle across the overflow channel of the Butte Slough at the site of the old "Long Bridge." Further mention will be made of this work when action is taken by the Supervisors.

MERCED, MERCED CO. CAL. — Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Merced. Owners, Merced County. Bids will be received until 10 a. m. on April 4th for the construction of a reinforced concrete bridge over a slough on the Merced and Snelling road, about one mile north of Bear Creek bridge in Road District No. 1.

VENTURA, VENTURA CO., CAL.—Bridges, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, Ventura. Owners Ventura County. The Board of Supervisors has instructed the County Clerk to advertise for bids for the building of the Sespe bridge across the Sespe River and for the Saticoy bridge across the Santa Clara River, after the plans and specifications adopted by the Board for the structures. Plans may be had from the County Clerk at Ventura.

HONOLULU, HAWAII—Wharf construction. Cost not stated. Engineer, United States Quarantine Service. Owners, United States Government. Bids will be opened on May 1st for removing superstructure of disinfecting wharf, including all equipment, and reconstructing same on new foundations. Plans can be seen at room 403 New Custom House, San Francisco. An official proposal appears in another column of this issue.

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and reinforced concrete. Cost not stated. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be received on April 17th at 2 p. m. for constructing a steel span bridge of two spans, each about 302 feet long, with two reinforced concrete approaches; total length 893 feet. An official proposal appears in another column of this issue.

Contracts Awarded.

WOODLAND, YOLO CO., CAL. — Bridge, concrete and steel, $4,500. Engineer, Count Surveyor, Woodland. Owners, Yolo County. Contractors, Jenkins & Wells, 3530 Y street, Sacramento. Contract price, $4,500.

CHURCHES

OAKDALE, STANISLAUS CO., CAL.—Church, 2 story and base, frame, $12,600. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Oakdale Methodist Church. Will contain main auditorium, Sunday school rooms and pastor's study. Interior finish pine. Art glass and ornamental plaster. Exterior covered with cement plaster. Plans complete and figures to be called for shortly.

Contracts Awarded.

WHITTIER, LOS ANGELES CO., CAL.—Mausoleum, 1 story, reinforced concrete. Cost not stated. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Contractor, E. M. Wheatland, Whittier. Contract price not stated.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Factory, 2, 3 story and 1, 1 story. Class A and Class C construction. Cost not stated. Architect, William Mooser, Nevada Bank Bldg., S. F. Owner, Ghirardelli Co. Location, adjoining present plant on North Point street. Construction steel and brick. Two larger buildings to be used for candy manufacturing purposes and the one story for a power plant. Interior finish pine with cement floors. Metal window sash and frames. Elevator service. Steam from central plant. Exterior faced with pressed brick and cement plaster. Plans complete and figures taken.

SAN FRANCISCO—Packing plant, 2 or 3 story. Class C construction. Cost not stated. Architect, Hermann Barth, 12 Geary street, S. F. Owners, Frye & Co. Location, southeast Front and Pacific streets, covering an area of 61 feet 8 inches by 137½ feet. Only preliminary sketches have been prepared and a detailed description cannot be be given at this time. Further mention will be made of the work.

SAN FRANCISCO—Dyeing and cleaning plant, 2 story, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owners, J. Allec Cleaning and Dyeing Works. Location, Folsom south of 17th street. A contract for the excavating, piling and concrete work has been awarded to McGowan & Butler at $3,370. Figures will be called for at once on other parts of the wirk.

OAKLAND, CAL.—Factory group, 1 and 2 story, reinforced concrete, $250,000. Engineer, Maurice E. Couchot, 110 Sutter street, S. F. Owners, Pacific Tread Tire Co. Location, Foothill Boulevard. Construction will be fireproof. Light steel frame and concrete walls. A large amount of wire glass will be used. Special machinery will be installed. Exterior will be faced with cement plaster. Plans being prepared.

FIRE HOUSES AND JAILS

SAN FRANCISCO — Fire house, 2 story and base. Class C construction, $30,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, Mint avenue west of Fifth. Will contain room for four pieces of apparatus and living quarters for the men. Interior finish pine. Cement and pine floor. Special electric work, steam heat, oil burning equipment and vacuum cleaning. Exterior faced with pressed brick. Plans approved and bids to be called fore shortly.

MOORPARK AND CAMARILLO, VENTURA CO., CAL.—Jails, 2, 1 story and base, reinforced concrete. Cost not stated. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Ventura County. Construction fireproof. Special jail equipment. Concrete floors. Steam heat and hot water supply. Separate figures on general construction and jail equipment. Exteriors faced with cement plaster. Plans complete and figures being taken. Bids close on April 11th. Plans from architect or County Clerk.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $4,500. Architect, none. Owner, E. Fabish, 192 Valley street, S. F. Location, southeast corner of Clement and 31st avenue, covering an area of 32½ feet by 45 feet. Will contain store on the first floor and two flats of five rooms each on the upper floor. Interior finish pine and redwood. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Patent store fronts. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Flat alteration, 2 story and base, frame, $5,000. Architects, Mair & Dingwell, Macdonough Bldg., Oakland. Owner, E. Barnett. Location, 20th west of Telegraph. Work will consist of an addition, new interior finish, hardwood floors, plastering, painting, plumbing and electric work. Exterior will be covered with cement plaster. Plans are nearly ready for figures.

SAN FRANCISCO—Flats, 3 story and base, frame, $7,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name withheld. Location, Richmond District. Will contain six flats of four, five and six rooms. Interior finish pine and redwood with white enamel in the bed rooms. Open fire paces and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

GARAGES.

SAN FRANCISCO—Garage, 1 story, steel and concrete. Cost not stated. Architect, Charles J. I. Devlin, Pacific Bldg., S. F. Owner, Alfred Hampton. Location, southwest corner of Frederick and Downy streets. Work will be in the nature of extensive alterations. Garage designed for private use. Plans complete and contracts to be awarded at once.

LOS ANGELES, CAL.—Garage and show rooms, 5 story and base, reinforced concrete, $100,000. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, H. Newmark. Location, 11th and Hope streets, covering an area of 100 by 150 feet. Construction fireproof. Main floor finished in pine, hardwood and tile. Upper floors in pine. Besides the offices and display space the building will contain storage rooms, work shop and shipping department. Elevator service, steam heat and hot water supply. Metal window sash and frames. Exterior faced with cement plaster. Pans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular No. 140.

The following bids were received by the depot quartermaster, San Francisco, Cal., under office circular No. 140, opened February 28:

Bid 1. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

2. Tubbs Cordage Co., Kohl Building, San Francisco, Cal.

3. Anchor Packing Co., 682 Howard street, San Francisco, Cal.

4. Pacific Hardware and Steel Co., 7th and Townsend streets, San Francisco, Cal.

5. C. J. Hendry Co., 46 Clay street, San Francisco, Cal.

6. A. W. Pike & Co., 711 Mission street, San Francisco, Cal.

7. Wolverine Brass Works, 206 Natoma street, San Francisco, Cal.

8. Crandall Packing Co., 136 Liberty street, New York City.

9. Plant Rubber and Supply Co., 32 Beale street, San Francisco, Cal.

10. Nathan-Dohrmann Co., Geary and Stockton streets, San Francisco, Cal.

11. Selby Smelting and Lead Co., Merchants Exchange Building, San Francisco, Cal.

12. Johnson & Joseph Co., 34 Sacramento street, San Francisco, Cal.

13. Weinstock-Nichols Co., 538 Golden Gate avenue, San Francisco, Cal.

14. Dolliver & Bros., 619 Mission street, San Francisco, Cal.

15. H. W. Johns-Manville Co., 2nd and Howard streets, San Francisco, Cal.

16. Perkins-Campbell Co., Cincinnati, Ohio.

17. John P. Costello, 556 Golden Gate avenue, San Francisco, Cal.

18. U. S. Rubber Company of California, 50 Fremont street, San Francisco, Cal.

19. The Berger Manufacturing Co. of California, 1120 Mission street, San Francisco, Cal.

20. John Deere Plow Co., Illinois and Merrimac streets, San Francisco, Cal.

21. Seattle Hardware Co., Seattle, Wash.

22. Weeks-Howe-Emerson Co., 51 Market street, San Francisco, Cal.

23. American Enineering Co., Monadnock Building, San Francisco, Cal.

24. Great Western Smelting and Refining Co., 75 Folsom street, San Francisco, Cal.

25. Garlock Packing Co., 670 Howard street, San Francisco, Cal.

26. Howe Scale Co., 521 Mission street, San Francisco, Cal.

27. Handlan-Buck Manufacturing Co., St. Louis, Mo.

28. Pacific Fire Extinguisher Co., 507 Montgomery street, San Francisco, Cal.

29. West Coast Wire and Iron Works, 748 Folsom street, San Francisco, Cal.

30. John Rothschild & Co., Market and Spear streets, San Francisco, Cal.

31. John Finn Metal Works, 384 2nd street, San Francisco, Cal.

32. G. M. Josselyn & Co., 58 Sacramento street, San Francisco, Cal.

33. American La France Fire Engine Co., 660 Mission street, San Francisco, Cal.

34. Marshall-Newell Supply Co., 142 Steuart street, San Francisco, Cal.

35. F. S. Johnson Co., 570 Howard street, San Francisco, Cal.

36. Michelin Tire Co., 1644 Pine street, San Francisco, Cal.

37. Leenson Company, 325 Market street, San Francisco, Cal.

38. Universal Trading Co., 171 Broadway, New York City.

39. John A. Roebling's Sons Co., 624 Folsom street, San Francisco, Cal.

40. Main Street Iron Works, 163 Main street, San Francisco, Cal.

41. Keuffel & Esser Co., 48 2nd street, San Francisco, Cal.

42. Herbert F. Duan, 1170 Sutter street, San Francisco, Cal.

43. Eugene Dietzgen Co., 18 1st St., San Francisco, Cal.

44. International Harvester Co., Monadnock Building, San Francisco, Cal.

45. Gorham Fire Apparatus Co., 127 Mission street, San Francisco, Cal.

46. Jones Auto Supply Co., 2505 Broadway, Oakland, Cal.

47. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

48. National Brass and Copper Tube Co., 639 Mission street, San Francisco, Cal.

49. B. F. Goodrich Rubber Co., 401 Mission street, San Francisco, Cal.

50. Fairbanks, Morse & Co., 651 Mission street, San Francisco, Cal.

51. International Filter Co., 819 Monadnock Building, San Francisco, Cal.

52. H. E. Holmes & Co., 744 Folsom street, San Francisco, Cal.

53. A. M. Scott Tire Co., 630 Van Ness avenue, San Francisco, Cal.

54. Foucar, Ray & Simon, 512 Folsom street, San Francisco, Cal.

55. Bennett Bros., 514 Market street, San Francisco, Cal.

56. Squires & Byrne Rubber Co., 67 Steuart street, San Francisco, Cal.

57. Keystone Bros., 120 2nd street, San Francisco, Cal.

58. Norman B. Livermore Co., Merchants National Bank Building, San Francisco, Cal.

59. John Clark Saddlery Co., Portland, Ore.

60. The George Lawrence Co., Portland, Ore.

Item 1. 24 parts ambulance harness, cruppers—Bid 16, $1.23 ea: 35, $1.27: 57, $1.75: 59, $1.50: 60, 98c.

2. 12 do, straps, carrying—Bid 16, 71c ea: 35, 74c: 57, 62c: 59, 85c: 60, 65c.

3. 24 do turnbacks with hip straps—Bid 16, $1.34 ea: 35, $1.74: 57, $2.10: 59, $2.50: 60, $1.26.

4. 50 do straps, breeching—Bid 16, 42c ea: 35, 28c: 57, 26c: 59, 30c: 60, 22c.

5. 1,000 lbs rope, manila, spunyarn—Bid 2, 17c lb: 32, 15.68c: 38, 23.97c and 15.97c.

6. 200 heaters, egg, large size, Dover—Bid 1, 13c ea: 4, 14c: 6, $1.75 doz: 10, 17c ea: 37, 13c: 38, 18.97c.

7. 200 broilers, wire, 9x14 in—Bid 1, 10c ea: 4, 14c: 6, 24c: 10, 17c: 29, $2.25: 38, 44.5c.

8. 150 blades, meat saw, 18x1⅝ in—Bid 1, $4 doz: 27, $3.60.

9. 100 kettles, tea, Bluite enamel, 5 qt—Bid 4, 69c ea: 10, $1.25.

10. 100 do 7 qt—Bid 4, 79c ea: 10, $1.-71.

11. 100 knives, chopping—Bid 4, 8.7c ea.

12. 200 pins, rolling, hardwood, 11½ in—Bid 1, 11½c ea: 4, 11¼c: 10, 12c: 37, 11c.

13. 300 plates, pie, I. C. tin—Bid 1, 3c ea: 4, 2.5c: 10, 3c: 37, 3c.

14. 1 barograph, registering 1 week—Bid 41, $36 and $44: 43, $38.

15. 60 catches, cupboard, cast bronze—Bid 4, $1.90 doz: 6, $2.15: 21, $1.90: 38, $3.16: 47, $2: 55, $2.08.

16. 500 bolts, tire, Eagle—No bids.

17. 144 catches, cupboard, cast iron—Bid 4, 53c doz: 6, 47c: 21 34c: 38, 69c: 47, 40c: 55, 43c.

18. 144 do wrought bronze—Bid 4, $1.47 doz: 6, $1.20: 21, $1.14: 38, $1.64: 47, $1.20: 55, $1.29.

19. 1 die, hose coupling—No bids.

20. 50 extinguishers, fire, 3 gal—Bid 15, $6 ea: 28, $8.45 and $5.50: 33, $7.95: 45, $5.25.

21. 300 lbs nails, copper, boat—Bid 5, 45c lb: 12, 38c: 29, 42c.

22. 18 parts Gillette horse clipper, plates, top—Bid 47, 65c ea.

23. 36 do plates, bottom—Bid 47, 65c ea.

24. 2,000 lbs soda, bicarbonate—Bid 28, 4¼c lb: 30, 5.98c: 38, 7.73c: 42, 5½c: 45, 7½c.

26. 12 washers, rubber, bath waste—Bid 1, 72c lot.

27. 20 machines, mowing, 4½ft cut—Bid 20, $40 ea: 44, $51.55: 47, $42.50.

29. 18 clamps, door, 4 ft—Bid 1, $1.23 ea: 4, $1.31.

30. 3 clamps, saw filing, No. 01—Bid 1, 65c ea: 4, 60c: 47, 60c.

31. 12 do No. 30—Bid 4, $1.18 ea: 47, $1.60.

32. 24 cutters, clinch—Bid 1, 29c ea: 47, 32c.

33. 288 hasps, hinge, 4 in—Bid 1, 45c doz: 4, 49c: 6, 60c: 47, 48c.

34. 144 keys, blank, assorted—Bid 47, $5 lot: 55, $1.75.

35. 24 locks, cupboard, 2½ in, right hand—Bid 4, $3.65 doz: 6, $3.75: 21, $3.-20: 47, $5.40: 55, $3.80.

36. 24 do left hand—Bid 4, $3.65 doz: 6, $3.75: 21, $3.20: 47, $5.40: 55, $3.80.

37. 288 locks, mortise, japanned—Bid 6, $7.45 doz: 38, $4.73: 47, $4.50: 55, $5.-33.

38. 1,000 lin ft netting, wire, galvanized, 36 in—Bid 4, $14.40 100 lin ft: 27, $19.50: 47, $13.

39. 1,000 lin ft do 48 in—Bid 4, $19 100 lin ft: 27, $26: 47, $20.

40. 100 bolts, carriage, ⅝x21 in Bid 4, $9.55 per 100.

41. 100 do ⅝x22 in—Bid 4, $10.30 per 100.

42. 5 bits, twist, drill, machine, 49-61 in—Bid 1, 76c ea: 4, 68c: 27, 70c.

43. 5 do 1 17-32 in—Bid 1, $3.78 ea: 27, $3.75.

44. 5 do 23-64 in Bid 1, 30c ea: 27, 28c.

45. 200 lbs brass, rod, 1 in Bid 5, 60c lb: 34, 60c.

46. 25 brushes, tar, 1 knot—Bid 12, 25c each: 37, 30c.

47. 12 brushes, tube, 1¼ in—Bid 1, 20c ea: 4, 27c: 27, 36c.

48. 24 do 4 in—Bid 1, 50c ea: 4, 54c: 27, 70c.

49, 50 and 51. 600 lbs burrs, copper, ½ in, ⅝ in and ¼ in—Bid 5, 60c lb.

52. 100 lbs cement, "Smooth-on"—Bid 7, 45c lb: 12, 30c: 15, 60c: 22, 32c: 34, 32c.

53. 288 pieces chalk, carpenter's—Bid 1, 60c gro: 4, 52c: 34, 74c: 47, 70c.

56. 300 lbs compound, welding—Bid 1, 9¾c lb: 4, 6c: 27, 9c: 47, 6.9c.

57. 12 coppers, soldering, 4 lb—Bid 1, 84c ea: 4, 78c: 7, $1.02: 19, 92c: 47, 78c.

58. 6 sets dies, pipe, single end, ¼ in—Bid 1, 42c set: 4, 36c: 27, 40c: 34, 41.-5c: 47, 55c.

59. 6 sets do ⅜ in—Bid 1, 42c set: 4, 36c: 27, 40c: 34, 41.5c: 47, 55c.

60. 24 sets do ½ in—Bid 1, 42c set: 4, 36c: 27, 40c: 34, 41.5c: 47, 55c.

61. 24 sets do ¾ in—Bid 1, $1.33 set: 4, $1.17: 27, 49c: 34, $1.33: 47, $1.50.

62. 24 sets do 1 in—Bid 1, $1.33 set: 4, $1.17: 27, 49c: 34, $1.33: 47, $1.50.

63. 18 sets do 1¼ in—Bid 1, $1.33 set: 4, $1.17: 27, 49c: 34, $1.33: 47, $1.50.

64. 2,000 discs, filter, paper—Bid 51, $6.95 per 100.

65. 1,000 lbs iron, galvanized sheet, 36x96 in—Bid 4, $5.39 cwt: 19, $5.25: 27, $6.40: 54, $5.74.

66. 1,000 lbs do 48x96 in—Bid 4, $5.61 cwt: 19, $5.25: 27, $6.40: 54, $5.98.

67. 1,000 lbs do 48 x96 in, 20-gauge—Bid 4, $5.93 cwt: 27, $6.55.

68. 500 lbs iron, round, galvanized, ⅝ in—Bid 1, $6.50 cwt: 4, $7.56: 5, $6: 12, $6.25: 22, $6.50: 32, $6: 47, $7.40: 54, $7.

69. 10,000 lbs lead, pig, 10 lb pigs—Bid 11, 6.8c lb: 12, 6.85c.

70. 300 lbs metal, nickel, Babbitt—Bid 11, $45.50 cwt: 24, $55: 31, $45.

71. 200 lbs packing, asbestos tape, without insertion, ¼x⅝ in—Bid 8, 70c lb: 9, 65c: 15, 40c: 38, 69.47c: 56, 71½c.

72. 400 lbs do ⅛x¾ in Bid 8, 70c lb: 9, 65c: 15, 40c: 38, 57.4c: 56, 71½c.

73. 600 lbs do with insertion, ⅛x1 in—Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 25, 63c: 56, 77c.

74. 300 lbs do ⅛x1½ in Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 25, 63c: 56, 77c.

75. 200 lbs do 3-16x¾ in Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 25, 63c: 38, 69.47c: 56, 77c.

76. 100 lbs do 3-16x1½ in—Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 18, 47c: 25, 63c: 56, 77c.

77. 200 lbs do ¼x1 in—Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 18, 47c: 25, 63c: 56, 77c.

78. 200 lbs do ¼x1¼ in—Bid 3, 47c lb: 8, 70c: 9, 60c: 15, 37c: 18, 47c: 25, 63c: 38, 57.4c: 56, 77c.

79. 100 lbs do ¾x1⅛ in—Bid 3, 47c lb, 8, 70c: 9, 60c: 15, 37c: 18, 47c: 25, 63c: 56, 77c.

80. 500 lbs do sheet, Garlock's No. 900, 1-16 in—Bid 3, 64c lb, 50c and 53c: 8, 53c: 9, 55c: 15, 55c: 18, 80c: 25, 80c: 38, 57.4c: 56, 75c.

81. 500 lbs do ⅛ in—Bid 3, 64c lb: 7, 50c and 52c: 8, 53c: 9, 55c: 15, 85c: 18, 80c: 25, 80c: 38, 57.4c: 56, 75c.

82. 25 lbs pine, escutcheon, ¾ in—Bid 1, 62c lb: 5, 50c: 6, 65c: 34, 83c.

83. 25 lbs do 1 in—Bid 1, 62c lb: 4, 65c: 5, 50c: 6, 63c: 34, 81c.

84. 200 lbs rivets, countersunk heads, 1 in x 2¼ in—Bid 27, 4.8c lb.

85. 200 lbs do 1x2½ in—Bid 27, 4.8c lb.

86. 200 lbs do 1x2¾ in—Bid 27, 4.8c lb.

87. 100 lbs do round head, ¾x2½ in—Bid 1, 4.65c lb: 4, 4.05c: 27, 4¾c.

88. 20,000 rivets, tubular, copper, 3-16 in—Bid 14, $2.23 per M: 47, $3.50.

89. 20,000 do 4-16 in—Bid 14, $2.23 per M: 47, $3.50.

90. 50,000 do japanned, 3-16 in—Bid 14, 66c per M: 35, 66c: 47, 85c: 57, 67c: 59, 70c: 60, 72c.

91. 25,000 do 4-16 in—Bid 14, 66c per M: 35, 66c: 47, 85c: 57, 67c: 59, 70c: 60, 72c.

92. 50,000 do 5-16 in—Bid 14, 66c per M: 35, 66c: 47, 85c: 57, 67c: 59, 70c: 60, 72c.

93. 30,000 do tubular, japanned, No. 3, 3-16 in—Bid 14, $1.22 per M: 35, $1.16: 47, $1.60: 57, $1.40: 60, $1.32.

94. 50,000 do 5-16 in—Bid 14, $1.29 per M: 35, $1.22: 47, $1.70: 57, $1.30: 59, $1.35: 60, $1.42.

95. 50,000 do 7-16 in—Bid 14, $1.43 per M: 35, $1.36: 47, $1.85: 57, $1.43: 59, $1.50: 60, $1.54.

96. 30,000 do ⅝ in—Bid 14, $1.64 per M: 35, $1.55: 47, $2.10: 57, $1.65: 59, $1.-70: 60, $1.78.

97. 864 screweves, brass—Bid 1, $2 gro: 4, $2.10: 6, $2.74: 21, $2.04.

98. 180 springs, screen door—Bid 1, 70c doz: 4, 70c: 34, 80c: 47, $8c.

99. 100 lbs staples, wire fence, ¾ in—Bid 1, $4.95 cwt: 39, $4.95: 47, $4.

100. 100 lbs do 1 in—Bid 1, $1.70 cwt; 39, $1.50; 47, $1.

101. 100 lbs do 1¼ in—Bid 1, $4.05 cwt; 39, $4.15; 47, $4.

102. 2,000 lbs steel, mild, round, 11-16 in—Bid 1, $3.43 cwt.

103. 2,000 lbs steel mild, square, ⅝ in—Bid 1, $3.50 cwt; 4, $3.80; 47, $3.60; 54, $4.

104. 1,000 lbs steel, mild, flat, ⅛x3½ in—Bid 1, $4 cwt; 4, $3.73; 47, $3.90; 54, $4.35.

105. 1,000 lbs do 3-16x¾ in—Bid 1, $4.40 cwt; 4, $3.93; 47, $4.10; 54, $4.75.

106. 1,000 lbs do 3-16x1 in—Bid 1, $3.90 cwt; 4, $3.63; 47, $3.85; 54, $4.25.

107. 1,000 lbs do 3-16x2 in—Bid 1, $3.80 cwt; 4, $3.63; 47, $3.85; 54, $4.15.

108. 5,000 lbs do ¼x2 in—Bid 1, $3.60 cwt; 4, $3.53; 47, $3.70; 54, $3.95.

109. 3,000 lbs do ⅜x2¾ in—Bid 1, $3.40 cwt; 47, $3.70; 54, $3.75.

110. 500 lbs do ⅜x1½ in—Bid 1, $3.40 cwt; 47, $3.60; 54, $3.75.

111. 1,000 lbs do 1x3 in—Bid 1, $3.40 cwt; 4, $3.43; 47, $3.60; 54, $3.75.

114. 10 tires, automobile, clincher—Bid 13, $48.30 ea; 17, $11 and $51.70; 36, $31.82; 38, $39.47; 42, $35.29; 46, $42.50; 49, $29.25; 53, $31.50.

115. 1,000 lbs washers, cast iron, o. g., ¾ in—Bid 1, $2.85 cwt; 4, $3.44; 47, $2.95.

116. 500 lbs do 1 in—Bid 1, $2.85 cwt; 4, $3.44; 47, $2.95.

117. 25 lbs wire, brass, No.2—Bid 39, 42c lb; 48, 40c.

118. 25 lbs do No. 4—Bid 39, 42c lb; 48, 40c.

119. 25 lbs do No. 7—Bid 39, 42 lb; 48, 40c.

120. 25 lbs do No. 8—Bid 39, 42 lb; 48, 40c.

121. 25 lbs do No. 10—Bid 39, 43c lb; 48, 40½c.

122. 25 lbs wire, brase, soft, No. 10—Bid 48, 40½c lb.

123. 25 lbs do No. 18—Bid 48, 41¾c lb.

124. 25 lbs do spring, No. 6—Bid 39, 44c lb.

126. 20 lbs do No. 8—Bid 39, 44c lb.

127. 10 lbs do No. 11—Bid 39, 45c lb; 48, 42½c.

128. 20 lbs wire, copper, soft, No. 14—Bid 4, 40c lb; 7, 50c; 39, 33.4c.

129. 10 lbs do No. 19—Bid 7, 52c and 55c; 39, 34.15c; 48, 34¼c.

130. 500 lbs wire, galvanized iron, No. 4—Bid 1, $3.85 cwt; 39, $3.85; 47, $4.

131. 2,000 lbs do No. 12—Bid 1, $4 cwt; 3, $4.20; 47, $4.

132. 3,000 lbs do No. 16—Bid 1, $4.75 cwt; 47, $4.75; both 1 day delivery.

133. 2,000 lbs do No. 18—Bid 1, $5.45 cwt; 3, $5.65; 47, $5.45.

134. 100 lbs do No. 20—Bid 1, $8.10 cwt; 47, $8.

135. 50 lbs wire, seizing, 3-32 in—Bid 5, 15c lb; 22, 15c; 39, 21c.

136. 100 lbs do ⅛ in—Bid 5, 15c lb; 22, 15c; 39, 19¾c.

137. 100 lbs do 11-64 in—Bid 5, 15c lb; 22, 15c; 39, 17c.

138. 1 scale, dormant, $5,000 lb capacity—Bid 26, $93; 38, $128; 47, $83.50; 50, $90.

139. 2 hoists, drum deck with 2 in heads—Bid 23, $935 ea; 40, $1,028, $1,068, $1,078 and $1,118; 58, $1,135.40 and $1,132.75.

140. 2 curves, irregular, pattern No. 4—Bid 41, 35c ea; 43, 30c.

141. 1 do pattern No. 27—Bid 41, 50c ea; 43, 45c.

144. 1 part Priest's horse clipper, shaft case—Bid 1, $3.75.

145. 1 do hook—Bid 1, 32c ea.

146. 1 do cup—Bid 1, $1.50.

147. 1 do shaft, bottom—Bid 1, $1.10.

148. 1 do shaft, top—Bid 1, $1.10.

149. 1 do block No. 7—Bid 1, 75c.

150. 1 do frome, No. 1—Bid 1, $2.25.

151. 1 do pulley No. 4—Bid 1, 75c.

152. 1 do nut—Bid 1, 58c.

153. 1 do handle, vibrating—Bid 1, $4.50.

154. 1 do attachment, grooming—Bid 1, $5.25.

155. 1 gro pens, steel, lettering—Bid 43, $1.17 gro.

156. 1 pen, drawing, border—Bid 41, $3; 43, $2.78.

157. 12 pencils, lead, yellow—Bid 43, 75c doz.

158. 1 plane, bench, jointer—Bid 1, 2.85; 6, $2.40; 47, $2.84.

160. 1 rule, curve, 14½ in — Bid 41, $1.65; 43, $1.69.

161. 1 do 24 in—Bid 41, $1.

162. 1 scales, flat, divided, No. 1391P—Bid 41, 75c ea; 43, 69c.

163. 1 do chain, No. 1415P—Bid 41, 75c; 43, 69c.

164. 1 do chain, No. 1416P—Bid 41, 75c; 43, 69c.

165. 1 square, T, 42 in—Bid 41, $2.70; 43, $2.70.

166. 24 stakes, truck, 2x3¼ in—Bid 52, $1.24 ea.

167. 1 triangle, 45 degrees, 7 in—Bid 41, 33c; 43, 22c.

168. 1 do 14 in—Bid 41, $1.10; 43, 83c.

Under the above opening the following awards have been made:

Bid 1, items 6, 7, 29, 32, 33, 47, 48, 97, for 288 only, 103, 109, 110, 111, 115, 116, 130 to 133, 144 to 154.

Bid 4, items 10, 11, 30, 31, 38, 39, 40, 41, 42, 57, 67, 87, 98, 102 and 104 to 108.

Bid 5, items 15, 49, 50, 51, 82 and 83.

Bid 6, item 158.

Bid 7, item 26.

Bid 11, item 69.

Bid 12, for 50 lbs, items 46 and 52.

Bid 14, items 88 and 89.

Bid 15, items 71 to 79.

Bid 19, items 71 and 79.

Bid 19, items 65 and 66.

Bid 20, item 27.

Bid 21, items 15, 17, 18, 35 and 36.

Bid 22, item 21 for 250 lbs, 136 and 137.

Bid 23, item 139.

Bid 25, items 81 and 82.

Bid 27, items 8, 43, 44, 56, 61, 62, 63, 84, 85 and 86.

Bid 28, item 24.

Bid 31, item 70.

Bid 32, items 5 and 68.

Bid 35, items 90 to 96.

Bid 37, item 12.

Bid 39, items 124, 126, 128 and 129.

Bid 41, items 14, 160, 161 and 165.

Bid 43, items 140, 141, 155, 156, 157, 163, 164, 167 and 168.

Bid 45, item 20.

Bid 47, items 22, 23, 37, 99, 100 and 134.

Bid 48, items 117 to 123 and 127.

Bid 49, item 114.

Bid 50, item 138.

Bid 51, item 64.

Bid 52, item 166.

Bid 55, item 34.

Bid 60, item 3.

Submarines.

There is an indication that the submarine-building program to be adopted by the present Congress will provide liberally for submarines of about 550 tons displacement with the characteristics of the L-type. Rear Admiral R. S. Griffin, chief of the bureau of steam engineering, and Chief Constructor D. W. Taylor, chief of the bureau of construction, told the House naval committee of the trouble encountered in building the fleet submarines authorized by Congress. The principal difficulty is in the matter of speed, and they recommended an amendment of the act authorizing their construction so as to allow the Secretary of the Navy to accept a submarine of 19 knots speed rather than a minimum of 20 knots as provided by law. They recommended building, as an emergency measure, the smaller type and were against providing for any larger submarines until an opportunity has been given to complete and try out the Schley or one of the other submarines, no one of which can be completed within 30 months. They favored building by way of experiment three 800-ton boats without restrictions imposed by law as to characteristics, leaving such details to departmental prescription. This would provide one for each of the two submarine builders and one to be built at a navy yard at a cost estimated as $1,205,000 for each boat. Rear Admiral Grant, commanding the submarine flotilla, told the committee that he desired to see an 800-ton submarine completed and in successful operation before money was appropriated for larger sizes. Admiral Fletcher, commanding the Atlantic fleet, also told the committee that auxiliary ships are the only type of vessels which can be finished within what may reasonably be thought to be the duration of the present war, a period of one year. He approved building submarines of a type with which our officers are familiar and at the same time provide for building capital ships which cannot be ready for service inside of three years. The L-type of submarine, eleven in number, was authorized in 1912 and 1913, and it is expected that they will be delivered during the present year, with the exception of L-8, on which is being installed an Edison battery. The radius of action of this type is 5,500 miles, and several of them have already passed successfully the contractors' trials.

San Diego, Cal., Alterations.

The following bids were received by the custodian, U. S. post office and custom house, San Diego, Cal., recently for new stairs, exterior entrance, etc., in the above building:

Wurster Construction Co., San Diego, Cal., $1,274; 30 days.

Ramby & Trepte, San Diego, Cal., $1,523.50; 60 days.

Thomas Kneale, San Diego, Cal, $1,-15; May 1.

Mare Island, Cal., Locomotive Cranes.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for furnishing 3 locomotive cranes at the navy yard, Mare Island, Cal.:

Item 1, net price for each locomotive crane, complete, in accordance with department specifications; 2, net price for the 3 locomotive cranes, complete, in accordance with department specifications; 3, net price for each locomotive crane modified in accordance with bidders specifications; 4, net price for the three locomotive cranes modified in accordance with bidder's specifications.

Brown Hoisting Machinery Co., 4403 St. Clair street, Cleveland, Ohio, item 4, B, $11,380; C, $9,415.

Link Belt Co., 329 W. 39th street, Chicago, Ill., item 1, A, $12,517; B, $12,-568; C, $10,396; item 2, $34,821.

The Industrial Works, 135 Washington street, Bay City, Mich., item 3A, $10,600; B, $8,800; C, $10,500; item 4, $29,400.

McMyler Interstate Co., Bedford, Ohio, item 3, A, $11,360; B, $10,930; C, $9,180; item 4, $31,270.

Reno Reservoir, Cover.

The contract for constructing a cover over Reno reservoir for the water department, Washington D. C., has been awarded to Edgar H. Mosher, Washington, D. C., at $15,190.

Reclamation Service, Cement.

The Secretary of the Interior has authorized the Reclamation Service to award the following contracts for furnishing Portland cement for use on the government irrigation projects: To the United States Portland Cement Co. of Denver, Colo., for 8,000 barrels of cement f. o. b. cars at Concrete, Colo., at $1.37 per barrel, with refund of 10c per sacks returned in good condition, the cement to be used on the North Platte irrigation project, Nebraska-Wyoming. To the Union Portland Cement Co., of Ogden, Utah, for 2,800 barrels f. o. b. cars at Devils Slide, Utah, at $1.70 per barrel, with refund of 10c per sack for sacks returned in good condition. This cement is required for the Boise project, Idaho.

Kalispell, Mont., Post Office.

The following bids were received by

the supervising architect, Treasury Department, Washington, D. C., for the construction of the U. S. post office at Kallspell, Mont.:

Thomas W. Cissel, Wooster, Ohio, limestone, $92,000; sandstone, $91,500.

Stebinger Bros., Portland, Ore., limestone, $91,181; sandstone, $91,181.

Alloway & Georg, Spokane, Wash., limestane, $99,824; sandstone, $98,974.

S. G. Morin, Spokane, Wash., limestone, $109,150; sandstone, $107,250.

Sound Construction & Engineering Co., Seattle, Wash., limestone, $94,734; sandstone, $94,734.

George A. Shaul, Seneca, Kans., limestone, $95,738.

Hiram Lloyd Building & Construction Co., Odd Fellows Building, St. Louis, Mo., limestone, $99,847.

Wm. O'Neill & Con Co., Faribault, Minn., limestone, $92,713; sandstone, $94,713.

Campbell Building Co. of Utah, Salt Lake City, Utah, limestone, $94,861; sandstone, $94,861.

W. D. Lovell, Minneapolis, Minn., limestone, $89,558; sandstone, $90,300.

Welch Bros. & Hannaman, Oakland, Cal., limestone, $80,120; sandstone, $79,320.

J. P. Sweatt, Spokane, Wash., limestone, $97,134; sandstone, $96,923.

State Supply Co., Helena, Mont., limestone, $95,590; sandstone, $98,300.

George Troshoff, Spokane, Wash., limestone, $108,332; sandstone, $107,017.

Olson & Johnson Co., Missoula, Mont., limestone, $87,475; sandstone, $87,690.

Thomas E. Young & Co., Seattle, Wash., limestone, $88,331; sandstone, $88,331.

San Francisco National Cemetery.

The following bids were received and award made by the depot quartermaster, San Francisco, Cal., under office circular No. 137 for repairs to San Francisco National Cemetery:

Bid 1. The Tozer Co., 429 Sutter street, San Francisco, Cal.

2. Adolph Wegner, 593 Market street, San Francisco, Cal.

3. Pringle, Dunn & Co., 338 Pine street, San Francisco, Cal.

4. I. R. Kissel, 1729 Polk street, San Francisco, Cal.

5. D. Zelinsky & Son, 564 Eddy street, San Francisco, Cal.

6. J. C. Nielson, 565 16th street, Oakland, Cal.

Item a. Repairing and painting lodge—Bid 1, $89.50, accepted; 3, $167; 4, $147; 5, $97; 6, $156.

b. Repairing and painting storehouse—Bid 1, $42.50, accepted; 3, $50; 4, $110; 5, $69; 6, $80.

c. Painting flagstaff—Bid 1, $10, accepted; 3, $53; 4, $18; 5, $21; 6, $12.

Bid 2 submitted lump price of $150 for all work.

Portland, Ore., Engineer, Stone.

The bid of Robert Wakefield, of Portland, Ore., $110,000 in amount, has been accepted for furnishing stone for north jetty construction at mouth of Nehalem River, Oregon.

Steel Towers, Guam.

The contract for furnishing two 400-foot steel towers at the naval radio station, Guam, has been awarded to the Constructing and Engineering Co., 1047 Folsom street, San Francisco, Cal., at $38,614.

Pocatello, Idaho, Shelving.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for installing metal vault shelving in the U. S. post office and court house at Pocatello, Idaho:

The Keyless Lock Co., Indianapolis, Ind., $488.

Crown Metal Construction Co., Jamestown, N. Y., $523.

Canton Art Metal Co., Canton, Ohio, $546.

Watson Mf. Co., Jamestown, N. Y., $645.

The Berger Mfg. Co., Canton, Ohio, $690.

Armor-Clad Mfg. Co., Canton, Ohio, $870.

General Fireproofing Co., Washington, D. C., $906.50.

The Van Dorn Iron Works Co., Cleveland, Ohio, $939.60.

Port Townsend, Wash., Floors.

The following bids were received by the custodian, U. S. marine hospital, Port Townsend, Wash., recently for laying new floors in the basement of the above building:

Clinton F. Henderson, Port Townsend, Wash., $390; 60 days.

J. J. Stockand, Port Townsend, Wash., $435; 45 days.

David G. Swapp, Port Townsend, Wash., $573.75; 30 days.

Reclamation Work.

Bids for constructing various structures along Fort Laramie Canal, North Platte project, Nebraska-Wyoming, were received by the U. S. Reclamation Service at Fort Laramie, Wyo., as follows:

Schedule 1, 2 reinforced concrete siphons, one under Laramie River, one under Deer Creek, capacity 1,430 c. f. s., about 2,000 cubic yards; schedule 2, 3 cross drainage culverts of reinforced concrete, amounting to about 1,400 cubic yards.

Intermountain Bridge Co., Tecumseh, Nebr., schedule 1, $86,600; 2, $27,920.

W. O. Morrison, Denver, Colo., schedule 1, $68,530; $25,306.

MacArthur Bros., Co., Chicago, Ill., schedule 1, $49,710; 2, $18,265.

Winston Bros. Co., Minneapolis, Minn., schedule 1, $54,590; 2, $21,036.

Security Bridge Co., Minneapolis, Minn., schedule 1, $39,877; 2, $18,766.

Hoyt Hayden, Spokane, Wash., schedule 1, $63,605; 2, $23,512.50.

HALLS AND SOCIETY BUILDINGS.

STOCKTON, SAN JOAQUIN CO., CAL.—Armory, 1 and 2 story and base, brick and reinforced concrete, $30,000. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Working drawings for the new Armory at Stockton have been submitted to the State Advisory Board and have been approved. Bids will be called for shortly. Further mention will be made of the work.

HOSPITALS

SAN FRANCISCO—Hospital wing, 4 story and base. Class A construction. Cost not stated. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids were opened at last Wednesday's meeting of the Board of Public Works for the general construction, brick and terra cotta work, heating and ventilating and plumbing for the new northeast wing of the San Francisco Hospital. All bids were taken under advisement. A complete list of the bids will be found under the heading of San Francisco in this issue.

SAN FRANCISCO—Hospital X ray room, steel and concrete, $5,000. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Chidren's Hospital. Bids have been received and contracts will be awarded shortly for a modern X ray room to be erected at the Children's Hospital.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital group, 1 and 2 story, brick and reinforced concrete. Cost as follows. Architect, Lyman W. Farrell, Story Bldg., L. A. Owners, San Bernardino County. Bids opened by the County Supervisors for the proposed County Hospital show the following firms low: General construction—George M. Easton, 436 West 30th street, L. A., $91,800. Electric work—Newberry Electrical Co., 723 South Olive street, L. A., $3,400. Pumbing—Howe Bros., 1198 San Pedro street, L. A., $5,374.

HOTELS

SAN FRANCISCO—Hotel, 5 story and base, brick and steel, $40,000. Architect, Theo. W. Lenzen, Humboldt Bank Bldg., S. F. Owner, C. J. Keenan, 20 Broderick street, S. F. Location, east Mason north of Post, covering an area of 40 by 65 feet. Will contain a number of single rooms with private baths. Interior finish pine and hardwood. Hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning plant. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and owner to let subcontracts.

SAN FRANCISCO—Hotel alterations, Class A construction, $18,000. Architects, MacDonald & MacDonald, Holbrook Bldg., S. F. Owner, Charles H. Crocker. The Wiltshire Hotel on Stockton street south of Sutter will undergo extensive alterations. Included in the work will be new terra cotta facing for store front, marquis, removal of mezzanine floor, alterations for new dining room and kitchen and the installation of an oil burning plant for the steam heating system. Plans are complete and figures have been taken.

SAN FRANCISCO—Hotel alteration. Class C construction, $5,000. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owner, Sanford & Goldstein. Location, north O'Farrell west of Mason. Will consist of new interior trim, plumbing and electric work. Plans complete and work to be done by Day Labor.

SUISUN, SOLANO CO., CAL.—Hotel alteration, 2 story, frame, $5,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Suisun Hotel Co. Work will consist of new interior trim, plastering, painting and electric work. Plans are compete and figures are being taken.

SAN PEDRO, LOS ANGELES CO., CAL.—Hotel, 3 story and base, brick and steel. Cost not stated. Architects, Edelman & Barnett, Black Bldg., L. A. Owner, Dr. Hill. Location, Front and Fifth streets, covering an area of 50 by 75 feet. Will contain stores on

the first floor. Upper floors arranged for single rooms. Interior finish pine and redwood. Steam heat and hot water system. Exterior faced with pressed brick. Patent store fronts. Plans being prepared.

LIBRARIES

Contracts Awarded

GRASS VALLEY, NEVADA CO., CAL.—Library, 1 story and base, brick and concrete, $13,695. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, Town of Grass Valley. Contractors, Welch Bros. & Hanneman, Grass Valley and Oakland. Contract price, $13,695.

POST OFFICES.

ROSEVILLE, ORE.—Post office, 1 and 2 story, brick, stone and concrete. Cost not stated. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Bids will be received for the complete construction, including heating and ventilating, for the new federal building on April 24th. Plans and specifications can be secured from the Supervising Architect or from the custodian of the site. An official proposal appears in another column of this issue.

POWER IMPROVEMENTS

CALEXICO, IMPERIAL CO., CAL.—Water system extension, $20,000. Engineer, City Engineer, Calexico. Owners, City of Calexico. Bids will be received on April 4th at 5 p. m. for furnishing material for the construction of extensions to the waterworks and water system of the City of Calexico All prices to be f. o. b. Calexico. (Proposal calls for cast iron water pipe, fittings, screws, cocks, fire hydrants, couplings, valves, etc.)

SEATTLE, WASH.—Power development, $250,000. Architect, Daniel Huntington, Seattle. Engineer, J. D. Ross, Seattle. Owners, City of Seattle. Plans have been outlined by the city light department for the construction of an addition to the Lake Union auxiliary steam power plant to cost about $250,000. The additional unit will have a capacity of 13,000 horsepower, and will be located north of the present building. The structure will be of reinforced concrete constuction. The work will probably be done by Day Labor.

Contracts Awarded.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Water pipe. Cost not stated. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. Contractors, Brookshire Oil Co., San Luis Obispo. Contract price not stated.

RAILROAD CONSTRUCTION AND EQUIPMENT.

FRESNO, FRESNO CO., CAL.—Railroad construction. Cost not stated. Engineer, Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Application has been made by the Southern Pacific Company to the City Council to lay additional tracks as follows: Ventura street, two new tracks; Mono street, two new tracks; Kern street, one new track; Tulare street, one old track to be torn up and a new one to be constructed in different location; Merced street, one additional track; Tuolumne street, six additional tracks, one to be abandoned and torn up.

RESIDENCES.

SAN FRANCISCO—Residences, 5, 2 story and base, frame, $3,000 each. Architect, August G. Headman, New Call Bldg., S. F. Owners, Paramount Building Co., 45 Kearny street, S. F. Location, east Pluto south of Masonic. Each dwelling will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and subfigures to be taken by the owners.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $2,000 each. Architect, none. Owners, Johnson and Johnson, 844 14th street, S. F. Location west 21st avenue south of Clement. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Frank Lapham, 534 18th avenue, S. F. Location, east 21st avenue south of Anza. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owners, Finance and Realty Co., Phelan Bldg., S. F. Location, east 44th avenue south of Geary. Each house will contain six rooms, bath and basement garage. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,500. Architect, William Koenig, 1108 Cabrillo street, S. F. Owner, Margaret Koenig. Location, west 12th avenue north of Cabrillo. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floor. Open fire places and furnace heat. Bath room tile. dantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, S. M. Hunter, 3117 Shattuck avenue, Berkeley. Location, north Woolsey east of Dana. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Furnace heat. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $3,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, Broadway and Taft avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile and brick. Bath room tile. Automatic water beater. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, Reed and Wilson, 520 9th street, Oakland. Location, west Brown avenue north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel and hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, L. Bertero, 2516 Bay Island avenue, Alameda. Location, east Versailles avenue. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Charles A. Warner, 2416 10th street, Berkeley. Location, west Browning south of Channing Way. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, J. Lalvarissa, 5471 Claremont avenue, Oakland. Location, east Vicente south of 58th street. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans compete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Alfred Cords. Location, southeast corner of Oakland and Jerome avenues. Will contain 9 rooms, 2 baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Prof. Charles F. Shaw. Location, Wheeler Tract. Wil contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and

open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with shingles. Plans complete and figures being taken.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 stor and base, frame, $2,500. Architect, none. Owner, F. W. Nunemacher, 1118 Oakland avenue, Oakland. Location, south Oakland avenue near Arbor. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floor. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 3, 2 story and base, frame, $3,000 to $3,500. Architect, none. Owner, C. M. MacGregor, 470 13th street, Oakland. Location, Hampel near Woodruff. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement paster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Resndence, 1½ story and base, frame, $3,800. Architect, Walter King, Elks Bldg., Stockton. Owner, F. W. Buttrick. Location, Tuxedo Pork. Will contain eight rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and contract to be awarded at once.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. Hasbman, 1309 52nd avenue, Oakland. Location, south Fullington near Mabel. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Justus Norris, 2828 Richmond avenue, Oakland. Location, east Bryant north of Ada. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors and open fire place. Mantel tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, G. H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway south of Manila Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $7,000. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Location, Bours Park. Will contain eight rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $7,000. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, C. V. Salix. Location, Bours Park. Will contain ten rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

MANTECA, SAN JOAQUIN CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, Dr. R. H. Goodale. Will contain seven rooms, office and operating room. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire paces. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 1 story and base, frame, $5,500. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, William Hasty Adams. Location, seven miles north of Waterloo. Will contain eight rooms, bath and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, P. F. Reed, 2613 28th street, Sacramento. Location, Urban Court. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, R. Grothman, 940 7th street, Richmond. Location, 8th and Lincoln Sts. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done hy Day Labor.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. A. Anderson, Richmond. Location, Wilson avenue near Barrett. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done hy Day Labor.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. F. Hamlin, Richmond. Location, Bissel avenue near 33rd. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place an tile mantel. Exterior covered with c ment plaster and rustic. Plans con plete and work to be done by Da Labor.

FRESNO, FRESNO CO., CAL.—Res idence, 1 story and base, frame, $1,50 Architect, none. Owner, A. B. Goo 2069 Belmont street, Fresno. Locatio 2131 Belmont. Will contain five room bath and sleeping porch. Interior fir ish pine and redwood. Some hardwoo floors. Open fire place and tile or bric mantel. Automatic water heater. Ex terior covered with cement plaste Plans complete and work to be don hy Day Labor.

FRESNO, FRESNO CO., CAL.—Res idence, 1 story and base, frame, $1,50 Owner, John Dechant, 1427 White ave nue, Fresno. Location, 1427 White ave nue. Will contain five rooms, bath an sleeping porch. Interior finish pin and redwood. Some hardwood floor Open fire place and tile mantel. Auto matic water heater. Exterior covere with cement plaster. Plans complet and work to be done by Day Labor.

LOS ANGELES, CAL.—Residence, story and base, frame. Cost not statec Architect, Frank S. Meline, 6772 Holly wood Boulevard, L. A. Owner, E. C Toberman. Location, Franklin stree and Camino Palmero. Will contain 1 rooms and three baths. Interior finisl pine, hardwood and white enamel Hardwood floors. Furnace heat an open fire places. Mantels tile and brick Hot water circulating system. Bat rooms tile. Exterior covered with ce ment plaster. Plans being prepared.

LOS ANGELES, CAL.—Residence, story and base, frame. Cost not stated Architect, C. D. Wagner, Story Bldg. L. A. Owner, L. O. Crenshaw. Loca tion, Victoria Drive. Will contain 1 rooms and three baths, sleepin porches and conservatory. Interior fin ish pine, hardwood and white enamel Hardwood floors. Furnace heat, oper fire places and tile and brick mantels Bath rooms tile. Hot water circulat ing system and vacuum cleaning. Exterior covered with cement plaster Plans complete and figures being taken.

Contracts Awarded.

LOS ANGELES, CAL.—Residence, story and base, hollow tile, $20,000. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owner, Everett D. Grant. Contractors, Milwaukee Building Co., Wright and Callender Bldg., L. A. Contract price, $20,000.

SCHOOLS

SAN LEANDRO, ALAMEDA CO., CAL.—Schools, 2, 1 story and base, frame and plaster. Cost not stated. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Bids will be received until April 3rd at 3 p. m. Each building will contain six class rooms, teachers' rooms and office. Interior finish pine with maple floors. Central heating systems and modern school plumbing. Exteriors covered with cement plaster. Plans can be secured from the architect.

MODESTO, STANISLAUS CO., CAL.—School, 1 story and base, hollow tile, $35,000. Architects, De Remer & Hewitt, Title Insurance Bldg., L. A. Owners, Modesto School District. Main portion of the building will be 100 by 55

feet with two wings 42 by 94 feet. There will be eight class rooms, office and auditorium. Interior finish pine with maple floors. Central heating system, probaby hot air with oil burning furnace. Exterior covered with cement plaster. Plans being prepared.

INGLEWOOD, LOS ANGELES CO., CAL.—School, 1 story and base, brick, $17,000. Architects, Norman F. Marsh and Herbert C. Howard, 212 Broadway, L. A. Owners, Inglewood Union High School District. The building will be in the nature of an addition to the present school and is designed to contain study hall, library and an auditorium seating 1,000 people. Interior finish pine with maple floors. Central heating system. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

LODI, SAN JOAQUIN CO., CAL.—School, 1 story and base, brick and tile, $31,728. Architects, Stone & Wright, 24 California street, Stockton. Owners, City of Lodi. Contractors, Philbuck & Colvin, Turlock, general construction, $31,728. Hatley & Hatley, Sacramento, plumbing.

SEWERS, STREET WORK & WATER SYSTEMS

BERKELEY, ALAMEDA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. The City Council has overrulel the protests from property owners and the Clerk has been instructed to advertise for bids for the paving of Fulton street and Durant avenue. Plans may be had from the City Clerk.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $6,275. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has adopted plans and specifications for sanitary sewers and lot branches in the district bounded by Fair Oaks avenue to Taylor street, and from Hazel avenue to Court alley, an alley just east and parallel with Ash street Bids have been ordered called. Plans may be had from the City Clerk.

STOCKTON, SAN JOAQUIN CO., CAL.—Street paving and curbs. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has passed resolutions of intention providing for the following street work: Market from the east line of East to the east line of Della; Washington, east line of East to the east line of Locust; Lafayette, east line of East to the west line of Hazel; Sonora, east line of East to the west line of Hazel; Church, west line of Locust to the west line of Hazel; Eugenia and Della, each from the south side of Fair Oaks avenue to a point south of the south line of Sonora; Locust and Cedar, each from the south line of Fair Oaks avenue to the north line of Church, work to consist of grading and paving with asphalt macadam, all streets together with combination concrete curbs and gutters and concrete sidewalks; alleys in the district to be graded, graveled and curbed with redwood curbs. Bids on this work will be called for shortly.

PETALUMA, SONOMA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council the following action was taken on street improvements: A resolution ordering work on Webster street from Hayes avenue to the Hillside tract was carried. A resolution for the construction of sewer pipe from the manhole on Broadway to the center line from Bassett to English was carried. A resolution ordering the construction of a culvert on I street near the city line in the place where the old culvert was constructed was carried.

RICHMOND, CONTRA COSTA CO., CAL.—Storm water sewer. Cost not stated. Engineer, City Engineer H. D. Chapman, Richmond. Owners, City of Richmond. At the last meeting of the City Council new plans were ordered from the City Engineer for the drainage of storm water from Kearney street. According to City Engineer H. D. Chapman there is at the present time a street nearly 1,000 feet in length which is not drained Bids will be called for shortly.

NAPA, NAPA CO., CAL.—Street improvement. Cost as follows. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council a resolution of intention to improve Pine street from Grant avenue to Franklin street was presented by Mr. Gardner, and was adopted. The plans and specifications for the same were also adopted. The total estimated cost will be $2,708.10. A resolution of intention to improve Laurel street from Grant avenue to Even street was also adopted, together with the plans and specifications for the work. The total estimated cost will be $3,296.90. Bids on this work will be called for shortly

SAN ANSELMO, MARIN CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. The Town Trustees have instructed the Town Engineer to prepare plans and specifications for the sewering of the Short ranch. Further mention will be made of this work.

REDWOOD CITY, SAN MATEO CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor J. V. Neuman, Redwood City. Owners, San Mateo County. Bids will be received until 10 a. m. on April 3rd for constructing 7½ miles of gravel road from San Gregoria to Pescadero. Plans can be secured from the County Clerk's office.

DALY CITY, SAN MATEO CO., CAL.—Street and sewer work. Cost not stated. Engineer, City Engineer, Daly City. Owners, Daly City. The City Trustees have passed a resolution of intention providing for the following work: Paving, construction of sewers, sidewalks and curbs in Alpha, Beta, Como, Lake and Gambetta avenues, be graded between the property lines and from the easterly line of Mission road to the easterly boundary line of Vista Grande Tract No. 2 and Vista Grande Tract No. 3, also for the rading of Mission road from the easterly curb line to a line 115.21 feet southerly from Gambetta avenue to a line 305.73 feet northerly from Alpha avenue. Bids on this work will be called for shortly.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. At the last meeting of the City Board of Trustees a resolution directing the City Engineer to prepare grades for the improvement of Swift and Walker aenues was adopted. Bids will be called for shortly.

LINDSAY, TULARE CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Lindsay. Owners, City of Lindsay. The City Trustees have instructed the City Engineer to prepare plans and specifications for the paving of four blocks in this city. The work will include the intersection of Sweet Brier and Apia, continuing west across the S. P. tracks and south paralleling the S. P. to the city limits. Bids will be called for shortly.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Street and sewer work. Cost not stated. Engineer City Engineer, Santa Barbara. Owners, City of Santa Barbara. The City Council has passed a resolution of intention providing for the improvement of portions of Carpinteria, Salinas and Cacique streets The work will consist of concrete curbs, gutters, paving and sewering. Bids will be called for on this work shortly.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Santa Barbara. Owners, City of Santa Barbara. The City Engineer has plans under way for the paving of Salsipuedes street from the beach to Haley street. Bids will be called for shortly on this work.

CALEXICO, IMPERIAL CO., CAL.—Sewer extensions. Cost not stated. Engineer, City Engineer, Calexico. Owners, City of Calexico Bids will be received until April 4th at 5 p. m. for furnishing the labor and materials for the construction of extensions to the sanitary sewer system and for the construction of a deep sludge sewer. (Proposal calls for trenching, filling, sewer pipe, brick manholes, covers, flush tanks, concrete manholes, etc.)

CHEHALIS, LEWIS CO., WASH.—Road construction. Cost as follows. Engineer, County Surveyor J. D. Neville, Chehalis. Owners, Lewis County. Bids will be received by the County Commissioners until April 8th for the construction of a one-course concrete road near Forest Wash., to cost $15,700; one-course concrete road near Toledo Wash., to cost $17,000, and for the construction of a one-course concrete road near Centralia, Wash., to cost about $14,006. The above work involves about 30,000 square yards of paving; 8,703 cubic yards of grading, 55,800 square yards subgrading and rolling, 264 feet of reinforced concrete culvert, moving and replacing three trestles of 25-foot concrete span

ALAMEDA, ALAMEDA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Alamada. Owners, City of Alameda. Bids for the permanent improvement of Central avenue from Fourth to Sherman streets have been called by the City Council. The Council adopted plans and specifications for the improvement of Central avenue from Fourth street to Fernside Boulevard. The improvement is to consist of a base of four inches of concrete with a wearing surface of an inch and one-half of asphaltic concrete, this to contain about 50 per cent of rock. The improvement is to be divided into two sections. Plans may be had from the City Clerk.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakand. Owners, City of Oakland. At the last meeting of the City Council the following action was taken on street improvements:

Awarding contract to E. H. Sundberg, 215 Oakland Bank of Savings, Oakland, for the improvement of East Eighth street from Fruitvale avenue to Thirty-seventh avenue. Awarding contract to E. H. Sundberg, for the improvement of 100th avenue from Bancroft avenue to Foothill Boulevard. Awarding contract to Hutchinson Company, 13th and Franklin, Oakland, for the improvement of 55th avenue between East 14th street and Foothill Boulevard. Adopting plans and specifications for the improvement of 51st avenue from East 14th street to Melrose Heights tract, and recommending passage of resolution of intention for same. Adopting plans and specifications for the improvement of Madison street between 12th street and Lake street, and recommending passage of resolution of intention for same. Directing the City Engineer to prepare proceedings for improving Laurel street from School street to Hopkins street. Directing the City Engineer to prepare proceedings for sewering Whittell avenue from Fruitvale avenue northeasterly to the northeastern termination of Whitell avenue. Directing the City Engineer to prepare proceedings for the improvement of Fleming avenue from High street to the Chittenden tract line. Directing the City Engineer to prepare proceedings for oil macadamizing, etc., 35th avenue from East 8th or Lloyd street to the Southern Pacific right of way. Directing the City Engineer to prepare proceedings for the improvement of East 15th street from 41st avenue to the California Railway right of way.

EUREKA, HUMBOLDT CO., CAL.—Road improvement. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until April 11th at 2 p. m. for clearing out and opening the portion of the county road built by Frank H. Green in 1914 along the south side of the Mattole River in Road District So. 1 in said Humboldt County, which lies between Kendall Gulch and its intersection with the old road to the east. Said road must be cleared of slides and opened so as to have a clear road bed equal to its original width,and said work must be completed not later than June 1, 1916.

EUREKA, HUMBOLDT CO., CAL.—Road improvement, $180,000. Engineer, J. A. Shaw, Eureka. Owners, Humboldt County. Civil Engineer J. A. Shaw, who was appointed by the County Supervisors to make preliminary surveys and estimates for the proposed boulevard in the Ferndale section, has started his work and a report will be submitted to the Supervisors in the near future.

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost not stated.. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The City Council has virtually agreed to proceed with macadamizing the streets in the West End, and it is proboble that some action regarding the matter will be taken up at the next meeting.

SAN RAFAEL, MARIN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The City Council has passed a resolution of intention providing for the following work: That portion of the roadway of C street lying between the center line of said C street and the westerly curb thereof, and between the northerly line of Second street and the southerly line of third street, be graded to the official grade and paved with a rock macadam pavement, and that a concrete curb and a concrete gutter be constructed along the westerly side thereof. It is probable that bids will be called at the next meeting of the Council.

RIVERSIDE, RIVERSIDE CO., CAL.—Steet improvements. Cost not stated. Engineer, City Engineer, Riverside. Owners, City of Riverside. At the last meeting of the City Council, the City Engineer was instructed to prepare plans and specifications for the improvement of two blocks on North Market, from First street to Ridge road, with macadam roadway, cement curbs, gutters and sidewalks. The improvement of the alley in the block bounded by Third and Fourth, Market street and Fairmount Boulevard, with macadam roadbed and cement gutter, was also approved, and the City Engineer instructed to bring in the necessary map. The recommendation of the City Planning Commission for the improvement of La Cadena drive, from First street to the city limits with a 31-foot strip of concrete pavement, was referred to the street committee for report. The City Engineer reported that he would have plans and specifications for the proposed North Main street improvement ready for adoption at the next meeting of the Council. The resolution of intention for the improvement of Fairmount Boulevard from First to Whittier Place was adopted.

BAKERSFIELD, KERN CO., CAL.—Street grading. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. At the last meeting of the City Council a petition was received for the grading of C street from Fourth to Fourteenth street. Te petition was accepted and the City Engineer was instructed to draw up plans and specifications for the same. Bids will be called for on the completion and acceptance of the plans.

SACRAMENTO, CAL. — Sewer construction. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following awards have been made by the City Commission: Sewers in Pine street, from Palmetto to Rose avenue, and Rose avenue, from Pine to Manzinilla, to C. D. Vincent, 193 Montecito avenue, Oakland. Sewers in Burbank avenue, from Leland to Stanford, and Rose avenue, from Burbank to Sutter, to C. D. Vincent. Sewers in Freeport road, etc., to F. E. Frey, 2526 Q street, Sacramento. Sewers in Cooper avenue, from Brighton avenue to the Milford tract, to C. D. Vincent.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractor, G. W. Cushing, 420 Macdonald avenue, Richmond. Constructing sewers in the Canal Division. Contract prices: For filling, 59c per cubic yard; for broken rock sub-drain, $2.50 per cubic yard; for sump, complete, $7,400; for 12-inch pipe, $1.20 per lineal foot; for 8-inch pipe, 60c per lineal foot; for 6-inch pipe, 50c per lineal foot; for 8-inch Y branches, 55c each extra; for 6-inch Y branches, 45c each extra; for manholes, complete, $15 per manhole; for lampholes, complete, $6 per lamphole; for 12-inch Y branches, 90c each extra.

Contracts Awarded.

SAN FRANCISCO—Street improvement, $19,930. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Flinn & Tracey, First National Bank Bldg., S. F. Contract for improvement of Quist from Evans to Oakdale. Contract price, $19,930.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction, $14,813.60. Engineer, County Surveyor J. V. Neuman, Redwood City. Owners, San Mateo County. Contractors, Eaton & Smith, 407 11th street, S. F. Contract price, $14,813.60.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sewer construction, $438.34. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Contractor, B. Byrne, Santa Cruz. Contract price, $438.34.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction, $13,710.34. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, W. S. Gause, Piedmont, Oakland. Contract price, $13,710.99.

WOODLAND, YOLO CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Woodand. Owners, Yolo County. Contractor, Joseph Lawrence, Washington. Contract for highway from the causeway to Southern Pacific tracks in Washington. Contract price not stated.

STORES AND OFFICES

SALINAS, MONTEREY CO., CAL.—Publishing offices, 2 story and base, reinforced concrete. Cost not stated. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Salinas Index. Location, west Gabilan and Salinas streets. Entire building to be occupied by the owners. Main floor will contain business office and composing rooms. Basement arranged for press room and mailing department. Upper floor offices. Interior finish pine. Exterior faced with cement plaster. Plans being prepared.

SAN MATEO, SAN MATEO CO., CAL.—Department store, 2 story and base. Class C construction, $60,000. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate. Brick exterior walls and steel frame. Interior finish pine and hardwood with some ornamental plaster. Patent store fronts. and marble bases. Central heating system, probably steam heat. Exterior faced with pressed brick and cement plaster. Plans being prepared.

SEAL BEACH, LOS ANGELES CO., CAL.—Offices, 1 story, brick. Cost not stated. Architect, Edwin J. Symmes, Pacific Bldg., S. F. Owners, Bayside Land Co. Will contain 6,400 square feet, and will house the general office of the company. Interior finish pine. Exterior faced with tapestry brick. Plans complete and figures being taken.

SAN FRANCISCO—Stores, 2 story and base. Class C construction, $15,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, F. and L. Cames. Location, west Mission north of 24th, covering an area of 25 by 100 feet. Designed for a large retail store with mezzanine floor. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with marble and pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Stores, 2 story and base, brick and steel, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, E. M. and O. M. Heuter. Location, west Fillmore between Sutter and Bush streets, covering an area of 50 by 100 feet. Leased to a large retail furniture firm. Interior finish pine with hardwood floors in display windows. Patent store fronts and marble bases. Automatic elevator. Mezzanine floor. Exterior faced with brick and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Stores, 1 story, frame. Cost not stated. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister west of Fillmore, covering an area of 25 by 137½ feet. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

GILROY, SANTA CLARA CO., CAL.—Telephone exchange, 2 story and base, reinforced concrete. Cost not stated. Architect, William Binder, Rea Bldg., San Jose. Owners, Gilroy Telephone Co. Location, Monterey between 4th and 5th streets, covering an area of 20 by 80 feet. Interior finish pine and hardwood. Maple and cement floors. Special electric conduits. Exterior faced with cement plaster. Plans being prepared.

SEALED PROPOSALS

PROPOSALS FOR WHARF WORK.

REMOVING WHARF — Custodian's Office, U. S. Quarantine Station, Honolulu, Hawaii.—Sealed proposals will be received at this office until **12:30 p. m., May 1, 1916,** and then opened, for removing the entire superstructure of the present disinfecting wharf, including all equipment, etc., at this station, and reconstructing same on new foundations, in accordance with drawings Nos. SA-12 and SA-13 and the specification, copies of which may be obtained from this office or from the supervising superintendent, room 403, post office and court house, San Francisco, Cal.

STATE OF CALIFORNIA

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of the California Highway Commission, 515 Forum Building, Sacramento, California, until **2 o'clock p. m. on April 17, 1916,** at which time they will be publicly opened and read, for construction in accordance with the specifications therefore, to which special reference is made, portions of State highway, as follows:

Humboldt County, across the Eel River south of Scotia (1-Hum-1-E), a bridge comprising two steel truss spans each about 302 feet long with two reinforced concrete approaches; total length about 893 feet.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the offices of the Division Engineers at Los Angeles and San Francisco, and at the office of the Division Engineer of the division in which the work is situated. The Division Engineers' offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Ohispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary.

Dated March 20, 1916.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1023 — Proposals for Laundry Washers, Track Frogs, Switches, Switch Stands, Steel Plates and Billets, Pig Iron, Malleable Iron Castings, Steel and Iron Pipe, Lead Pipe, Mule Shoes, Nails, Wire Netting, Bronze Bars, Sheet Copper, Copper Tubing, Zinc Plate, Cable Clips, Vises, Shovels, Stocks and Dies, Reamers, Drills, Bits, Hammers, Hatchets, Axes, Machetes, Chisels, Saws, Planes, Wrenches, Pliers, Pipe Tongs, Files, Grommets, Grease Cups, Distress Outfits, Emery Wheel Dressers, Clocks, Marine Lights, Calcimine Brushes, Wagon Rims, Watthour Meters, Panel Boards, Marine Fxtures, Electrical Fittings, Cotton Waste, Manila Rope, Hose, Asbestos Packing, Fire Brick, Asbestos Cement, Ferromanganese, Turpentine Substitute, Filling Boxes, Journal Books, Cardboard, Manila Tags and Cypress Ties.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 8, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1023) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 13, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., April 24, 1916,** for the construction of the United States Post Office at Roseburg, Oreg. Drawings and specifications may be obtained from the custodian of the site at Roseburg, Oreg., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

INVITATION FOR PROPOSAL.

CUSTODIAN'S OFFICE, U. S. Quarantine Station, Honolulu, Hawaii, March 13, 1916.—SEALED PROPOSALS will be received at this office **until 12:30 o'clock, P. M., May 1, 1916,** and then opened for removing the entire superstructure of the present disinfecting wharf, including all equipment, etc., at this station, and reconstructing same on new foundations in accordance with drawings Nos. SA-12 and SA-13 and the specification, copies of which may be obtained from this office, or from the Supervising Superintendent, Room 403 Post Office and Court House, San Francisco, California. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by D. Weissbaum & Co., 137 11th St., San Francisco, Cal., for the dismantling and wrecking of the Tower of Jewels, located at the Panama-Pacific International Exposition Site.

Bids will be received until **Noon, Saturday, April 1st, 1916.**

D. WEISSBAUM & CO.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal.—SEALED PROPOSALS, in triplicate, for alteration to sewer system, Fort Miley, Cal., will be received here **until 11:00 A. M., March 29, 1916,** and then opened. Further information on application. (*)

BUILDERS' EXCHANGE HONORS MEMORY OF LATE J. W. MILLER.

John W. Miller, for many years one of our most prominent contractors, was taken from us on the sixteenth day of this month, and it is in a spirit of sadness that we tell of the passing of one, whom those of the Builders' Exchange knew so well as friend and associate. He had gone to his ranch in Glenn County for a few days, and while driving about seven miles from Germantown, his team bolted, which resulted in his being thrown and instantly killed. The funeral services were held Monday, March 20th, at the parlors of Bunker & Lunt in this city and were largely attended by many friends who mourn his death sincerely. The Reverend Dr. Moore officiated and Mr. Willis Polk spoke most feelingly of his friendship with "J. W." and of the unostentatious work of uplift which he had accomplished within the sphere of his life.

A few words as to the life and achievements of Mr. Miller will not be amiss. He was born in Cornwall, Canada, and was the son of Donald Miller, a well known resident of that place. While a mere boy he left Cornwall with a party of his young friends impelled by the desire for adventure and fortune in the far West. After the long trip across the Isthmus they reached San Francisco from whence the youth journeyed north to Caribou, British Columbia in the quest of gold. But this did not present to him the permanent foundation upon which to build one's life, so he returned to San Francisco, which at that time offered great opportunities to a young man of strength and intelligence such as he. Here he worked diligently with body and brain until he ultimately became a prominent factor in the building of the city. Among the more important works in which he was engaged were the Park Museum, the French Hospital, the Lincoln Building at Fifth and Market streets, the First National Bank Building, the Merchants' Exchange Building (both before and after the fire) and the Mission Masonic Lodge, of which lodge he was a member, and in the erection of which he was engaged with his one-time partner, Mr. Adam Beck. But it was in the re-construction period after our great conflagration that he was especially active and did much to make San Francisco what it is today, a city of magnificent buildings. As builder of the structures we have mentioned, he reared monuments to his memory and well may those who were dear to him look upon them with pardonable pride.

John W. Miller has left an impress upon the city he loved which will last till many of the present generation have passed away. He builded well, and he also built a place in the hearts of his friends wherein a pleasant memory of him will have its strength revived each time his work is viewed in the stately structures that lie by their paths.

MINING ENGINEERS OF NEVADA TO ORGANIZE BRANCH OF INSTITUTE.

RENO (Nev.)—The Nevada Section of the American Institute of Mining Engineers will be installed here on May 18, according to advices received in Reno from Secretary Rieves of the Mine Operators Association.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

WHARF CONSTRUCTION—Cost not stated. Honolulu, Hawaii. Engineer, United States Quarantine Service. Owners, United States Government. Bids will be opened on May st for removing superstructure of disinfecting wharf, including all equipment, and reconstructing same on new foundations. Plans can be seen at Room 403 New Custom House, San Francisco. An official proposal appears in another column of this issue.

APARTMENT HOUSE—4 story and base, reinforced concrete, $22,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, John Kingston. Location, north Eddy street west of Larkin covering an area of 25 by 120 feet. Will contain 24 suites of two rooms each. Interior finish pine, elm panels and hardwood floors. Wall beds. Steam heat and hot water supply, oil burning equipment and automatic elevator. Bath rooms composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—5 story and base, brick and steel, $85,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, M. A. Little. Location, southwest corner of Bush and Mason streets, covering an area of 62½ by 79 feet. Will contain 47 suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Wall beds, private baths and dumb waiters. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick. Plans complete and segregated figures to be taken by the owner.

APARTMENT HOUSE—2 story and base, frame, $10,000. San Francisco. Architect, none. Owner L. B. Ham, 274 25th avenue, S. F. Location, north Lake street east of 6th avenue, covering an area of 27½ by 63 feet. Will contain four large residential apartments. Interior finish pine, white enamel and hardwood floors. Central heating system and hot water supply. Bath rooms composition floors. Wall beds. Exterior faced with rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister near Fillmore, covering an area of 40 by 120 feet. Will contain 14 apartments of two, three and four rooms. Interior finish pine. Hardwood floors. Steam heat, oil burning system and hot water supply. Bath rooms tile floors and wainscot. Marble and tile wainscot. Exterior faced with cement plaster and brick veneer. Plans complete and segregated figures being taken.

RESIDENCES—5, 2 story and base, frame, $3,000 each. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owners, Paramount Building Co., 45 Kearny street, S. F. Location, east Pluto south of Masonic. Each dwelling will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and subfigures to be taken by the owners.

RESIDENCES—2. 2 story and base, frame, $2,000 each. San Francisco. Architect, none. Owners, Johnson & Johnson, 844 14th street, S. F. Location, west 21st avenue south of Clement. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Frank Lapham, 534 18th avenue, S. F. Location, east 21st avenue south of Anza. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owners, Finance and Realty Co., Phelan Bldg., S. F. Location, east 44th avenue south of Geary. Each house will contain six rooms, bath and basement garage. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. San Francisco. Architect, William Koenig, 1108 Cabrillo street, S. F. Owner, Margaret J. Koenig. Location, west 12th avenue north of Cabrillo. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floor. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FIRE HOUSE—2 story and base. Class C construction. $30,000. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, Mint avenue west of Fifth. Will contain room for four pieces of apparatus and living quarters for the men. Interior finish pine. Cement and pine floor. Special electric work, steam heat, oil burning equipment and vacuum cleaning. Exterior faced with pressed brick. Plans approved and bids to be called for shortly.

FACTORY—2, 3 story and 1, 1 story. Class A and Class C construction. Cost not stated. San Francisco. Architect, William Mooser, Nevada Bank Bldg., S. F. Owner, Ghirardelli Co. Location, adjoining present plant on North Point street. Construction steel and brick. Two larger buildings to be used for candy manufacturing purposes and the one story for a power pant. Interior finish pine with cement floors. Metal window sash and frames. Elevator service. Steam from central plant. Exterior faced with pressed brick and cement plaster. Plans complete and figures taken.

PACKING PLANT—2 or 3 story. Class C construction. Cost not stated. San Francisco. Architect, Hermann Barth, 12 Geary street, S. F. Owners, Frye & Co. Location, southeast Front and Pacific streets, covering an area of 61 feet 8 inches by 137½ feet. Only preliminary sketches have been prepared and a detailed description can not be given at this time. Further mention will be made of the work.

DYEING AND CLEANING PLANT—2 story, reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owners, J Allec Cleaning and Dyeing Works. Location, Folsom south of 17th street. A contract for the excavating, piling and concrete work has been awarded to McGowan & Butler at $2,370. Figures will be called for at once on other parts of the work.

FLATS—2 story and base, frame, $4,500. San Francisco. Architect, none. Owner, E. Fabish, 192 Valley street, S. F. Location, southeast corner of Clement and 31st avenue, covering an area of 32½ by 45 feet. Will contain a store on the first floor and two flats of five rooms each on the upper floor. Interior finish pine and redwood. Open fire paces and tile or brick mantels. Bath rooms tile. Automatic water heaters. Patent store fronts. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $7,000. San Francisco. Architects, Fabre & Bearwald, Merchants, National Bank Bldg., S. F. Owner's name withheld. Location, Richmond District. Will contain six flats of four, five and six rooms. Interior finish pine and redwood with white enamel in the bed rooms. Open fire places and tile mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

GARAGE—1 story, steel and conconcrete. Cost not stated. San Francisco. Architect, Charles J. I. Devlin, Pacific Bldg., S. F. Owner, Alfred Hampton. Location, southwest corner of Frederick and Downy streets. Work will be in the nature of extensive alterations. Garage designed for private use. Plans complete and contracts to be awarded at once.

HOTEL—5 story and base, brick and steel, $40,000. San Francisco. Architect, Theo W. Lenzen, Humboldt Bank Bldg., S. F. Owner, C. J. Keenan, 20 Broderick street, S. F. Location, east Mason north of Post, covering an area of 40 by 65 feet. Will contain a number of single rooms with private baths. Interior finish pine and hardwood. Hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning plant. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and owner to let subcontracts.

HOTEL ALTERATIONS — Class A construction, $18,000. San Francisco. Architects, MacDonald & MacDonald, Holbrook Bldg., S. F. Owner, Charles H. Crocker. The Wiltshire Hotel on Stockton street south of Sutter will undergo extensive alterations. Included in the work will be new terra cotta facing for store front, marquis, removal of mezzanine floor, alterations for new dining room and kitchen and the installation of an oil burning plant for the steam heating system. Plans are complete and figures have been taken.

HOTEL ALTERATION — Class C construction, $5,000. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Sandford & Goldstein. Location, north O'Farrell west of Mason. Will consist of new interior trim, plumbing and electric work. Plans complete and work to be done by Day Labor.

HOSPITAL WING—Class A construction. Cost not stated. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids were opened at last Wednesday's meeting of the Board of Public Works for the general construction, brick and terra cotta work, heating and ventilating and plumbing for the new northeast wing of the San Francisco Hospital. All bids were taken under advisement. A complete list of the bids will be found under the heading of San Francisco in this issue.

HOSPITAL X RAY ROOM—Steel and concrete, $5,000. San Francisco. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Children's Hospital. Bids have been received and contracts will be awarded shortly for a modern X ray room to be erected at the Children's Hospital.

STORES—2 story and base. Class C construction, $15,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, F. and L. Cames. Location, west Mission north of 24th, covering an area of 25 by 100 feet. Designed for a large retail store with mezzanine floor. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with marble and pressed brick. Plans complete and figures being taken.

STORES—2 story and base, brick and steel, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, E. M. and O. M. Heuter. Location, west Fillmore between Sutter and Bush, covering an area of 50 by 100 feet. Leased to a large retail furniture firm. Interior finish pine with hardwood floors in display windows. Patent store fronts and marble bases. Automatic elevator. Mezzanine floor. Exterior faced with pressed brick and cement plaster. Plans complete and figures being taken.

STORES—1 story, frame. Cost not stated. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner's name withheld. Location, McAllister west of Fillmore, covering an area of 25 by 137½ feet. Interior finish pine. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

STREET IMPROVEMENT — $19,930. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Flinn & Tracey, First National Bank Bldg., S. F. Contract for improvement of Quist from Evans to Oakdale. Contract price, $19,930.

City Bids Opened.

San Francisco Board of Public Works Receives Bids for Work on Northeast Wing of San Francisco Hospital.

At Wednesday's meeting of the San Francisco Board of Public Works bids for the general construction, brick and terra cotta work, heating and ventilating and plumbing for the northeast wing of the San Francisco Hospital were opened. Bids were also opened at the same meeting for extensions to the Municipal Water System and for fence and gates at the Polytechnic High School.

Plans for the northeast wing of the hospital were prepared by Architect John Reid Jr. O. Monson submitted the low figure for the general construction at $158,937; C. H. Hock was low on the brick and terra cotta work at $49,745; Scott Co. low on the heating and ventilating at $22,360 and Herman Lawson low on the plumbing at $39,100. A complete list of the bids received follows:

General Construction.

Bidder	Prop. 1	Prop. 2
Masow & Morrison	$167,700	$25,556
C. L. Wold	167,438	24,995
Elmer Carlson	167,000	28,000
Lange & Bergstrom	165,750	27,746
Sound Con. & Eng. Co.	163,598	28,394
W. D. Henderson	179,697	28,153
F. L. Hansen	192,529	33,000
W. A. Newsom	166,937	26,970
H. L. Peterson	160,976	29,017
Lindgren & Co.	177,000	30,000
P. F. Reilly	172,900	30,279
O. Monson (low)	158,937	25,437
Anderson & Ringrose	175,600	26,300

Brick and Terra Cotta Work.

Bidder	Prop. 1	Prop. 2
C. H. Hock (low)	$49,745	$ 9,985
Lester H. Stock (void)	90,564	18,839
Farrell & Reed	56,700	15,800
White & Gloor	55,500	11,500

Heating and Ventilating.

Bidder	Prop. 1	Prop. 2
J. E. O'Mara	$24,170	$2,660
A. Lettich	25,180	2,790
Kiernan & O'Brien	22,970	2,530
Scott Co. (low)	22,360	2,355
J. M. Lettich	26,345	2,860
Turner Co.	24,300	2,682
Wittman-Lyman Co.	24,577	2,675
F. P. Walsh	23,972	2,680
Robert Dalziel	23,097	.....
Herman Lawson	24,850	2,734

Plumbing.

Bidder	Prop. 1	Prop. 2
F. W. Snook	$41,975	$5,750
Alex. Coleman	42,165	5,325
J. E. O'Mara	46,980	5,900
Burnham Plumbing Co.	47,750	6,100
A. Lettich	43,490	5,900
Kiernan & O'Brien	41,550	5,000
J. H. Pinkerton	42,800	5,275
Scott Co.	42,000	5,575
J. M. Lettich	42,100	8,900
Turner Co.	45,295	5,425
Herman Lawson (low)	39,100	4,995
Wittman-Lyman Co.	44,700	5,665
Robert Dalziel	43,985	5,700
W. F. Wilson	45,845	5,525

Extensions, Municipal Water System.

Tibbitts-Pacific Co. (low)	$3,710
Blanchard & Ehrhardt	3,954
Contra Costa Constr Co. void(No check)	
Whitlock & Gorrill	4,300
Grace & Bernieri	5,700
Peterson & Grier	4,444
J. G. Harney	3,949
H. P. Broderick	3,825

Fences and Gates.

Monarch Iron Works (low)	$1,690
G. W. McClenahan	1,549
C. Farrenkopf	2,240
C. J. Hillard	2,220

OAKLAND AND ALAMEDA COUNTY

STREET PAVING—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. The City Council has overruled the protests from property owners and the Clerk has been instructed to advertise for bids for the paving of Fulton street and Durant avenue. Plans may be had from the City Clerk.

STREET IMPROVEMENT—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. Bids for the permanent improvement of Central avenue from Fourth to Sherman Sts. have been called by the City Council. The Council adopted plans and specifications for the improvement of Central avenue from Fourth street to Fernside Boulevard. The improvement is to consist of a base of four inches of concrete, with a wearing surface of an inch and one-half of asphaltic concrete, this to contain about 50 per cent of rock. The improvement is to be divided into two sections. Plans may be had from the City Clerk.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer Oakland. Owners, City of Oakland. At the last meeting of the City Council the following action was taken on street improvements: Awarding contract to E. H. Sundberg, 215 Oakland Bank of Savings, Oakland, for the improvement of East 8th street from Fruitvale avenue to 37th avenue. Awarding contract to E. H. Sundberg, for the improvement of 100th avenue from Bancroft avenue to Foothill Boulevard. Awarding contract to Hutchinson Company, 13th and Franklin, Oakland, for the improvement of 55th avenue between East 14th street and Foothill Boulevard. Adopting plans and specifications for the improvement of 51st avenue from East 14th street to Melrose Heights tract and recommending passage of resolution of intention for same. Adopting plans and specifications for the improvement of Madison street between 12th street and Lake street, and recommending passage of resolution of intention for same. Directing the City Engineer to prepare proceedings for improving Laurel street from School street to Hopkins street. Directing the City Engineer to prepare proceedings for

sewering Whittell avenue from Fruitvale avenue northeasterly to the northeastern termination of Whittell avenue. Directing the City Engineer to prepare proceedings for the improvement of Fleming avenue from High street to the Chittenden tract line. Directing the City Engineer to prepare proceedings for oil macadamizing, etc., 35th avenue from East 8th or Lloyd street to the Southern Pacific right of way. Directing the City Engineer to prepare proceedings for the improvement of East 15th street from 41st avenue to the California Railway right of way.

APARTMENT HOUSE—3 story and base, frame, $90,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Cutting Estate. Location, 19th and Alice streets. Will contain 140 rooms arranged in suites of two, three and four rooms. Hardwood floors. Interior finish pine, hardwood and white enamel. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot in lobby. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

APARTMENT HOUSE ALTERATION —2 story, frame, $7,300. Oakland, Cal. Architect, H. D. Mitchell, 628 Montgomery street, S. F. Owner, P. A. Dolan. Location, southeast corner of East 14th and 21st avenue. Work will consist of altering a two story frame dwelling into modern apartments and adding two stories. Wall beds and hot water supply. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base. Class C construction, $40,000. Oakland, Cal. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest corner of 22nd and Telegraph. Will contain a number of two and three room apartments with wall beds and private baths. Interior finish pine and elm panels with some white enamel and hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $30,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, J. Pougade. Location 14th and Brush streets. Will contain apartments of two and three rooms with wall beds and private baths. Interior finish pine and hardwood veneer. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Exterior faced with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, S. M. Hunter, 3117 Shattuck avenue, Berkeley. Location, north Woolsey east of Dana. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Furnace heat. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, Broadway and Taft avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owners, Reed and Wilson, 520 9th street, Oakland. Location, west Brown avenue north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel and hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Alameda, Alameda Co., Cal. Architect, none. Owner, L. Bertero, 2516 Bay Island avenue, Alameda. Location, east Versailles avenue. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, Charles A. Warner, 2416 10th street, Berkeley. Location, west Browning south of Channing Way. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, J. Lalvarissa, 5471 Claremont avenue, Oakland. Location, east Vicente south of 58th street. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,500. Piedmont, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Alfred Cords. Location, southeast corner of Oakland and Jerome avenues. Will contain nine rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Prof. Charles F. Shaw. Location, Wheeler Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with shingles. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $2,500. Piedmont, Alameda Co., Cal. Architect, none. Owner, F. W. Nunemacher, 118 Oakland avenue, Oakland. Location, south Oakland avenue near Arbor. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floor. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, J. Hashman, 1309 52nd avenue, Oakland. Location, south Fullington near Maybel. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, Justus Norris, 2828 Richmond avenue, Oakland. Location, east Bryant north of Ada. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors and open fire place. Mantel tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, G. H. Hollidge, 5926 Taft avenue, Oakland. Location, east Broadway south of Manila. Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $3,000 to $3,500. Oakland, Cal. Architect, none. Owner, C. M. MacGregor, 470 13th street, Oakland. Location, Hampel near Woodruff. Each house will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FACTORY GROUP—1 and 2 story, reinforced concrete, $250,000. Oakland, Cal. Engineer, Maurice E. Couchot, 110 Sutter street, S. F. Owners, Pacific Tread Tire Co. Location, Foothill Boulevard. Construction will be fireproof. Light steel frame and concrete walls. A large amount of wire glass will be used. Special machinery will be installed. Exterior will be faced with cement plaster. Plans being prepared.

FLAT ALTERATION—2 story and base, frame, $5,000. Oakland, Cal. Architects, Mair & Dingwell, Macdonough Bldg., Oakland. Owner, E. Barnett. Location, 20th west of Telegraph. Work will consist of an addition, new interior finish, hardwood floors, plastering, painting, plumbing and electric work. Exterior will be covered with cement plaster. Plans are nearly ready for figures.

SCHOOLS—2, 1 story and base, frame and plaster. Cost not stated. San Leandro, Alameda Co., Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Bids will be received until April 3rd at 3 p. m. Each building will contain si class rooms, teachers' rooms and office. Interior finish pine with

maple floors. Central heating systems and modern school plumbing. Exteriors covered with cement plaster. Plans can be secured from the architect.

SAN JOSE AND THE SANTA CLARA VALLEY

ROAD CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor J. V. Neuman, Redwood City. Owners, San Mateo County. Bids will be received until 10 a. m on April 3rd for constructing 7½ miles of gravel road from San Gregoria to Pescadero. Plans can be secured from the County Clerk's office.

STREET AND SEWER WORK—Cost not stated. Daly City, San Mateo Co., Cal. Engineer, City Engineer, Daly City. Owners, Daly City. The City Trustees have passed a resolution of intention providing for the following work: Paving, construction of sewers, sidewalks and curbs in Alpha, Beta, Como, Lake and Gambetta avenues, be graded between the property lines and from the easterly line of Mission road to the easterly boundary line of Vista Grande Tract No. 2 and Vista Grande Tract No. 3, also for the grading of Mission road from the easterly curb line to a line 115.31 feet southerly from Gambeet avenue to a line 305.73 feet northerly from Alpha avenue. Bids on this work will be called for shortly.

STREET IMPROVEMENT—Cost not stated. South San Francisco, San Mateo Co., Cal. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. At the last meeting of the City Board of Trustees a resolution directing the City Engineer to prepare grades for the improvement of Swift and Walker avenues was adopted. Bids will be called for shortly.

TELEPHONE EXCHANGE—2 story and base, reinforced concrete. Cost not stated. Gilroy, Santa Clara Co., Cal. Architect, William Binder, Rea Bldg., San Jose. Owners, Gilroy Telephone Co. Location, Monterey between 4th and 5th streets, covering an area of 20 by 80 feet. Interior finish pine and redwood. Maple and cement floors. Special electric conduits. Exterior faced with cement plaster. Plans being prepared.

DEPARTMENT STORE—2 story and base. Class C construction, $60,000. San Mateo, San Mateo Co., Cal. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate. Brick exterior walls and steel frame. Interior finish pine and hardwood with some ornamental plaster. Patent store fronts and marble bases. Central heating system, probably steam heat. Exterior faced with pressed brick and cement plaster. Plans being prepared.

PUBLISHING OFFICES—2 story and base, reinforced concrete. Cost not stated. Salinas, Monterey Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Salinas Index. Location, west Gabilan and Salinas streets. Entire building to be occupied by the owners. Main floor will contain business office and composing rooms. Basement arranged for press room and mailing department. Upper floor offices. Interior finish pine. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $14,-813.60. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor J. V. Neuman, Redwood City. Owners, San Mateo County. Contractors, Eaton & Smith, 407 11th street, S. F. Contract price, $14,813.60.

SEWER CONSTRUCTION — $438.34. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Contractor, B. Byrne, Santa Cruz. Contract price, $438.34.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENTS—Cost not stated. Petaluma, Sonoma Co., Cal Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council the following action was taken on street improvements. A resolution ordering work on Webster street from Hayes avenue to the Hillside tract was carried. A resolution for the construction of sewer pipe from the manhole on Broadway to the center line from Bassett to English was carried. A resolution ordering the construction of a culvert on 1 street near the city line in the place where the old culvert was constructed was carried.

STORM WATER SEWER—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer H. D Chapman, Richmond. Owners, City of Richmond. At the last meeting of the City Council new plans were ordered from the City Engineer for the drainage of storm water from Kearney street. According to City Engineer H. D. Chapman there is at the present time a street nearly 1,000 feet in length which is not drained. Bids will be called for shortly.

STREET IMPROVEMENT—Cost as follows. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council a resolution of intention to improve Pine street from Grant avenue to Franklin street was presented by Mr. Gardner and was adopted. The plans and specifications for the same were also accepted. The total estimated cost will be $2,708.10. A resolution of intention to improve Laurel street from Grant avenue to Even street was also adopted, together with the plans and specifications for the work. The total estimated cost will be $3,296.90. Bids on this work will be called for shortly.

SEWER CONSTRUCTION — Cost not stated. San Anselmo, Marin Co., Cal. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. The Town Trustees have instructed the Town Engineer to prepare plans and specifications for the sewering of the Short ranch. Further mention will be made of this work.

STREET IMPROVEMENT—Cost not stated.. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners City of San Rafael. The City Council has virtually agreed to proceed with macadamizing the streets in the West End, and it is probable that some action regarding the matter will be taken up at the next meeting.

STREET IMPROVEMENT—Cost not stated.. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners City of San Rafael. The City Council has passed a resolution of intention providing for the following work: That portion of the roadway of C street, lying between the center line of said C street and the westerly curb thereof and between the northerly line of Second street and the southerly line of Third street, be graded to the official grade and paved with a rock macadam pavement, and that a concrete curb and gutter be constructed along the westerly side thereof. It is probable that bids will be called at the next meeting of the Council.

APARTMENT HOUSE—2 story and base, frame, $10,500. Pittsburg, Contra Costa Co., Ca. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, Charles E. Perry. Will contain eight apartments of four rooms and bath. Interior finish pine. Hot water system and wall beds. Marble and tile vestibule. Composition floors in bath rooms. Open fire place in each apartment. Mantels tile and brick. Exterior covered with shingles. Plans complete and figures being taken.

HOTEL ALTERATION — 2 story, frame, $5,000. Suisun, Solano Co., Cal. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Suisun Hotel Co. Work will consist of new interior trim, plastering, painting and electric work. Plans are complete and figures are being taken.

RESIDENCE — 1 story and base, frame, $1,500. Richmond, Contra Costa Co., Cal. Architect, none. Owner, R. Grothman, 940 7th street, Richmond. Location, 8th and Lincoln streets. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Richmond, Contra Costa Co., Cal. Architect, none. Owner, J. A. Anderson, Richmond. Location, Wilson avenue near Barrett. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Richmond, Contra Costa Co., Cal. Architect, none. Owner, J. F. Hamlin, Richmond. Location, Bissel avenue near 33rd. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SEWER CONSTRUCTION—Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractor, G. W. Cushing, 420 Macdonald avenue, Richmond. Constructing sewers in the Canal Division. Contract prices: For filling, 59c per cubic yard; for broken rock sub-drain, $2.50 per cubic yard; for sump, complete, $7,400; for 12-inch pipe, $1.20 per lineal foot; for 8-inch pipe, 60c per lineal foot; for 6-inch pipe, 50c per lineal foot; for 8-inch Y branches, 55c each extra; for 6-inch Y branches, 45c each extra; for manholes, complete, $45 per manhole; for lampholes, complete, $6 per lamphole; for 12-inch Y branches, 90c each extra.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

STREET IMPROVEMENT—Cost not stated. Lindsay, Tulare Co., Cal. Engineer, City Engineer, Lindsay. Owners, City of Lindsay. The City Trustees have instructed the City Engineer to prepare plans and specifications for the paving of four blocks in this city. The work will include the intersection of Sweet Brier and Apia, continuing west across the Southern Pacific tracts and south paralleling the Southern Pacific to the city limits. Bids will be called for shortly.

STREET GRADING—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. At the last meeting of the City Council a petition was received for the grading of C street, from Fourth to Fourteenth street. The petition was accepted and the City Engineer was instructed to draw up plans and specifications for the same. Bids will be called for on the completion and acceptance of the plans.

CHURCH—2 story and base, frame, $2,000. Oakdale, Stanislaus Co., Cal. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Oakdale Methodist Church. Will contain main auditorium, Sunday school rooms and pastor's study. Interior finish pine. Art glass and ornamental plaster. Exterir covered with cement plaster. Plans complete and figures to be called for shortly.

RAILROAD CONSTRUCTION — Cost not stated. Fresno, Fresno Co., Cal. Engineer, Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Application has been made by the Southern Pacific Company to the City Council to lay additional tracks as follows: Ventura street, two new tracks; Mono street, two new tracks; Kern street, one new track; Tulare street, one old track to be torn up and a new one to be constructed in a different location; Merced street, one additional track; Tuolumne street, six additional tracks, one to be abandoned and torn up.

RESIDENCE — 1 story and base, frame, $1,500. Fresno, Fresno Co., Cal. Architect, none. Owner, A. B. Good, 2069 Belmont street, Fresno. Location, 2131 Blemont. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Fresno, Fresno Co., Cal. Architect, none. Owner, John Dechant, 1427 White avenue, Fresno. Location, 1427 White avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL—1 story and base, hollow tile, $35,000. Modesto, Stanislaus Co., Cal. Architects, De Remer & Hewitt, Title Insurance Bldg., L. A. Owners, Modesto School District. Main portion of the building will be 100 by 55 feet, with two wings 42 by 94 feet. There will be eight class rooms, office and auditorium. Interior finish pine with maple floors. Central heating system, probably hot air with oil burning furnace. Exterior covered with cement plaster. Plans being prepared.

BRIDGE—Reinforced concrete. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. Bids will be received until 10 a. m. on April 4th for the construction of a reinforced concrete bridge over a slough on the Merced and Snelling road about one mile north of Bear Creek in Road District No. 1.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

RESIDENCE — 2 story and base, frame, $7,000. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, C. V. Salix. Location, Bours Park. Will contain ten rooms, bath and sleeping porch. Interior finish pine, hardwood veneer and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $5,000. Manteca, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owner, Dr. R. H. Goodale. Will contain seven rooms, office and operating room. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $5,500. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owner, William Hasty Adams. Location, seven miles north of Waterloo. Will contain eight rooms, bath and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, P. F. Reed, 2613 28th street, Sacramento. Location, Urban Court. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SEWER CONSTRUCTION—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following awards have been made by the City Commission: Sewers in Pine street from Palmetto to Rose avenue, from Pine to Manzinila, to C. D. Vincent, 193 Montecito avenue, Oakland. Sewers in Burbank avenue from Leland to Stanford and Rose avenue from Burbank to Sutter, to C. D. Vincent, 193 Montecito avenue, Oakand. Sewers in Freeport road, etc., to F. E. Frey, 2526 Q street, Sacramento. Sewers in Cooper avenue, from Brighton avenue to the Milford tract to C. D. Vincent, 193 Montecito avenue, Oakland.

SEWER CONSTRUCTION — $6,275. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has adopted plans and specifications for sanitary sewers and lot branches in the district bounded by Fair Oaks avenue to Taylor street and from Hazel avenue to Court alley, an alley just east and parallel with Ash street. Bids have been ordered called. Plans may be had from the City Clerk.

STREET PAVING AND CURBS — Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Council has passed resolutions of intention providing for the following street work: Market from the east line of East to the east line of Della; Washington, east line of East to the east line of Locust; Lafayette, east line of East to the west line of Hazel; Church, west line of Locust to the west line of Hazel; Eugenia and Della, each from the south side of Fair Oaks avenue to a point south of the south line of Sonora; Locust and Cedar, each from the south line of Fair Oaks avenue to the north line of Church, work to consist of grading and paving with asphalt macadam, all streets together with combination concrete curbs and gutters and concrete sidewalks; alleys in the district to be graded, graveled and curbed with redwood curbs. Bids on this work will be called for shortly.

BRIDGE CONSTRUCTION—Cost not stated. Yuba, Sutter Co., Cal. Engineer, County Surveyor, Yuba City. Owners, Sutter County. The proposition of building a number of highway bridges was discussed at the last meeting of the Sutter County Supervisors and action was laid over. Among the structures planned are the proposed drawbridge at Nicolaus, the proposed drawbridge at Grimes, and the completion of the trestle across the overflow channel of the Butte Slough at the site of the old "Long Bridge." Further mention will be made of this work when action is taken by the Supervisors.

ROAD IMPROVEMENT — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humbodt County. Bids will be received until April 11th at 2 p. m. for clearing out and opening the portion of the county road built by Frank H. Green in 1914 along the south side of the Mattole River in Road District No. 1 in said Humboldt County, which lies between Kendall Gulch and its intersection with the old road to the east. Said road must be cleared of slides and opened so as to have a clear road bed equal to its original width, and said work must be completed not later than June 1, 1916.

ROAD IMPROVEMENT — $180,000. Eureka, Humboldt Co., Cal. Engineer, J. A. Shaw, Eureka. Owners Humboldt County. Civil Engineer J. A. Shaw, who was appointed by the County Supervisors to make preliminary surveys and estimates for the proposed boulevard in the Ferndale section, has started his work and a report will be submitted to the Supervisors in the near future.

BRIDGE—Steel and reinforced concrete. Cost not stated. Eureka, Humboldt Co., Cal. Engineer, State Highway Commission Forum Bldg., Sacramento. Owners, State of California. Bids will be received on April 17th at 2 p. m. for constructing a steel span bridge of two spans, each about 302 feet long, with two reinforced concrete approaches; total length 893 feet An

official proposal appears in another column of this issue.

RESIDENCE—1½ story and base, frame, $3,800. Stockton, San Joaquin Co., Cal. Architect, Walter King, Elks Bldg., Stockton. Owner, F. W. Buttrick. Location, Tuxedo Park. Will contain eight rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and contract to be awarded at once.

RESIDENCE — 2 story and base, frame, $7,000. Stockton, San Joaquin Co., Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Location, Bours Park. Will contain eight rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

ARMORY—1 and 2 story and base, brick and reinforced concrete, $30,000. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Working drawings for the new Armory at Stockton have been submitted to the State Advisory Board and have been approved. Bids will be called for shortly. Further mention will be made of the work.

Contracts Awarded.

LIBRARY—1 story and base, brick and concrete, $13,695. Grass Valley, Nevada Co., Cal. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, Town of Grass Valley. Contractors, Welch Bros. & Hannaman, Grass Valley and Oakland. Contract price, $13,-695.

SCHOOL—1 story and base, brick and tile, $31,728. Lodi, San Joaquin Co., Cal. Architects, Stone & Wright, 24 California street, Stockton. Owners, City of Lodi. Contractors, Philbuck & Colvin, Turlock, general construction, $31,728. Hatley & Hatley, Sacramento, plumbing.

SEWER CONSTRUCTION — $13,710.-99. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, W. S. Gause, Piedmont, Oakland. Contract price, $13,710.99.

HIGHWAY CONSTRUCTION — Cost not stated. Woodland, Yolo Co., Cal. Engineer, County Surveyor, Woodland. Owners, Yolo County. Contractor, Joseph Lawrence, Washington. Contract for highway from the causeway to southern Pacific tracks in Washington. Contract price not stated.

Sacramento Hospital Bids Received.

Bid of Harvey A. Klyce and Two Other Firms Taken Under Advisement By Board of Supervisors.

(By Special Wire)

SACRAMENTO, Cal.—March 24th.—Eight sets of figures were received by the County Supervisors for the construction of a two-story hollow tile and concrete ward building to be erected at the new Sacramento County Hospital. Plans for the work were prepared by Architect R. A. Herold, Forum Bldg., Sacramento.

Harvey A. Klyce, Sheldon Bldg., San Francisco, presented the low bid at $40,482. The three low bids were taken under advisement and a contract will be awarded at a special meeting of the Board to be held later. Following is a completed list of the bids:

Ward Building.

Harvey A. Klyie	$40,482
C. J. Guth	43,449
Teichert & Ambrose	41,480
William Keating	42,000
Matthews Constr. Co.	42,534
Siller Bros.	43,985
McGillivray Constr. Co.	44,650
William Murcell	42,984

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGES—Steel and reinforced concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The Board of Supervisors has instructed the County Clerk to advertise for bids for the building of the Sespe bridge across the Sespe River, and for the Saticoy bridge across the Santa Clara River after the plans and specifications adopted by the Board for the structures. Plans may be had from the County Clerk at Ventura.

STREET AND SEWER WORK—Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, City Engineer, Santa Barbara. Owners, City of Santa Barbara. The City Council has passed a resolution of intention providing for the improvement of portions of Carpinteria street, Salinas street and Cacique street. The work will consist of concrete curbs, gutters, paving and sewering. Bids will be called for on this work shortly.

STREET PAVING—Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, City Engineer, Santa Barbara. Owners, City of Santa Barbara. The City Engineer has plans under way for the paving of Salsipuedes street from the Beach to Haley street. Bids will be called for shortly on this work.

SEWER EXTENSION—Cost not stated. Calexico, Imperial Co., Cal. Engineer, City Engineer, Calexico. Owners, City of Calexico. Bids will be received until April 4th at 5 p. m. for furnishing the labor and materials for construction of extensions to the sanitary sewer system and for the construction of a deep sludge sewer. Proposal calls for trenching, filling, sewer pipe, brick manholes, covers, flush tanks, concrete manholes, etc.

STREET IMPROVEMENTS—Cost not stated. Riverside, Riverside Co., Cal. Engineer, City Engineer, Riverside. Owners, City of Riverside. At the last meeting of the City Council, the City Engineer was instructed to prepare plans and specifications for the improvement of two blocks on North Market, from First street to Ridge road, with macadam roadway, cement curbs, gutters and sidewalks. The improvement of the alley in the block bounded by Third and Fourth Market street and Fairmount Boulevard, with macadam roadbed and cement gutter was also approved and the City Engineer instructed to bring in the necessary map. The recommendation of the City Planning Commission for the improvement of La Cadena drive, from First street to the city limits, with a 31-foot strip of concrete pavement, was referred to the street committee for report. The City Engineer reported that he would have plans and specifications for the proposed North Main street improvement ready for adoption at the next meeting of the Council. The resolution of intention for the improvement of Fairmount Boulevard, from First to Whittier Place, was adopted.

JAILS—2, 1 story and base, reinforced concrete. Cost not stated. Moorpark and Camarillo, Ventura Co., Cal. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Ventura County. Construction fireproof. Special jail equipment. Concrete floors. Steam heat and hot water supply. Separate figures on general construction and jail equipment. Exteriors faced with cement plaster. Plans complete and figures being taken. Bids close on April 11th. Plans from architect or County Clerk.

GARAGE AND SHOW ROOMS — 5 story and base, reinforced concrete, $100,000. Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, H. Newmark. Location, 11th and Hope streets, covering an area of 100 by 150 feet. Construction fireproof. Main floor finished in pine, hardwood and tile. Upper floors in pine. Besides the offices and display space the building will contain storage rooms, work shop and shipping department. Elevator service, steam heat and hot water supply. Metal window sash and frames. Exterior faced with cement paster. Plans complete and figures being taken.

HOTEL—3 story and base, brick and steel. Cost not stated. San Pedro, Los Angeles Co., Cal. Architects, Edelman & Barnett, Black Bldg., L. A. Owner, Dr. Hill. Location, Front and Fifth streets, covering an area of 50 by 75 feet. Will contain stores on the first floor. Upper floors arranged for single rooms. Interior finish pine and redwood. Steam heat and hot water system. Exterior faced with pressed brick. Patent store fronts. Plans being prepared.

HOSPITAL GROUP—1 and 2 story, brick and reinforced concrete. Cost as follows. San Bernardino, San Bernardino Co., Cal. Architect, Lyman W. Farrell, Story Bldg., L. A. Owners, San Bernardino County. Bids opened by the County Supervisors for the proposed County Hospital show the following firms low: General construction—George M. Easton, 436 West 30th street, L. A., $91,800. Electric work—Newberry Electric Co., 723 South Olive, L. A., $3,400. Plumbing—Howe Bros., 1198 San Pedro street, L. A., $5,374.

WATER SYSTEM EXTENSION — $20,000. Calexico, Imperial Co., Cal. Engineer, City Engineer, Calexico. Owners, City of Calexico. Bids will be received on April 4th at 5 p. m. for furnishing material for the construction of extensions to the water works and water system of the City of Calexico. All prices to be f. o. b. Calexico. (Proposal calls for cast iron water

pipe, fittings, screws, cocks, fire hydrants, couplings, valves, etc.)

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Frank S. Meline, 6772 Hollywood Boulevard, L. A. Owner, E. C. Toberman. Location, Franklin street and Camino Palmero. Will contain twelve rooms and three baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Hot water circulating system. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, C. D. Wagner, Story Bldg., L. A. Owner, L. C. Crenshaw. Location, Victoria Drive. Will contain 13 rooms and three baths, sleeping porches and conservatory. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile and brick mantels. Bath rooms tile. Hot water circulating system and vacuum cleaning. Exterior covered with cement plaster. Plans complete and figures being taken.

SCHOOL—1 story and base, brick, $17,000. Inglewood, Los Angeles Co., Cal. Architects, Norman F. Marsh and Herbert C. Howard, 212 Broadway, L. A. Owners, Inglewood Union High School District. The building will be in the nature of an addition to the present school, and is designed to contain study hall, library and auditorium seating 1,000 people. Interior finish pine with maple floors. Plans being prepared.

OFFICES—1 story, brick. Cost not stated. Seal Beach, Los Angeles Co., Cal. Architect, Edwin J. Symmes, Pacific Bldg., S. F. Owners, Bayside Land Co. Will contain 6,400 square feet and will house the general office of the company. Interior finish pine. Exterior faced with tapestry brick. Plans complete and figures being taken.

Contracts Awarded

MAUSOLEUM—1 story, reinforced concrete. Cost not stated. Whittier, Los Angeles Co., Cal. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Whittier Heights Cemetery Association. Contractor, E. M. Wheatland, Whittier. Contract price not stated.

WATER PIPE—Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. Contractors, Brookshire Oil Co., San Luis Obispo. Contract price not stated.

RESIDENCE — 2 story and base, brick and hollow tile, $20,000. Los Angeles, Cal. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owner, Everett D Grant. Contractors, Milwaukee Building Co., Wright and Callender Bldg., L. A. Contract price, $20,000.

PORTLAND AND OREGON

POST OFFICE—1 and 2 story, brick, stone and concrete. Cost not stated. Roseville, Ore. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Bids will be received for the complete construction, including heating and ventilating, for the new federal building on April 24th. Plans and specifications can be secured from the Supervising Architect or from the custodian of the site. An official proposal appears in another column of this issue.

SEATTLE AND WASHINGTON

ROAD CONSTRUCTION—Cost as follows. Chehalis, Lewis Co., Wash. Engineer, County Surveyor J. D. Nevile, Cheralis. Owners, Lewis County. Bids will be received by the County Commissioners until April 8th for the construction of a one-course concrete road near Forest, Wash., to cost $15,700; one-course concrete road near Toledo, Wash., to cost $17,000, and for the construction of a one-course concrete road near Centralia, Wash., to cost about $14,006. The above work involves about 30,000 square yards of paving, 8,703 cubic yards of grading, 55,800 square yards subgrading and rolling, 264 feet of reinforced concrete culvert, moving and replacing three trestles and 25 feet concrete span.

POWER DEVELOPMENT—$250,000. Seatte, Wash. Architect, Daniel Huntington, Seattle. Engineer, J. D. Ross, Seattle. Owners, City of Seattle. Plans have been outlined by the city light department for the construction of an addition to the Lake Union auxiliary steam power plant to cost about $250,000. The additional unit will have a capacity of 3,000 horse power, and will be located north of the present building. The structure will be of reinforced concrete construction. The work will probably be done by Day Labor.

Ralph McLeran Is Entertained.

New Orleans Contractors and Dealers Exchange Show Courtesy to San Francisco Man.

The following is re-printed from "The Building Review," a New Orleans, Louisiana, publication of March 18th:

Mr. Ralph McLeran, a Supervisor of San Francisco and director of the General Contractors' Association of that city, was in New Orleans Tuesday and Wednesday, stopping at the Gruenwald. Mr. McLeran is returning to his home from Baltimore where he was a delegate to the National Association of Builders' Exchanges. Treasurer Jas. M. McGowan of the Contractors and Dealers Exchange took charge of Mr. McLeran, showing him the points of interest around the city, taking in the mammoth warehouses along the water front, inspecting the purification plant, etc. The gentlemen have interests in common; Mr. McLeran was one of the men in San Francisco who was at the head of the rat-proofing of his native city and Mr. McGowan is now devoting a great deal of his time in New Orleans to that important duty.

Mr. McLeran expressed himself as pleased with New Orleans and was greatly surprised at seeing the amount of rat-proofing that the people of this city have done.

SECURE BIG ALTERATION CONTRACT.

The Fink & Schindler Company has been given the contract to remodel the five-story building at 51 Grant Avenue and install new front and mahogany fixtures for the William C. White Company, Inc., agents for Knox Hats. The cost will be about $10,000. Competitive bids were not taken on the work.

John D. McGilvray Passes Away.

News of the death of John D. McGilvray, which occurred at 9:25 P. M. last Friday evening, was received with deep regret by his many friends and associates throughout the city which knew him so well.

John D. McGilvray was one of San Francisco's most representive business men and a pioneer in building circles and through his many years of active life has contributed much to the growth of the city. He was the founder of both the McGilvray Stone Co. and the McGilvray Raymond Granite Co., and was active in the management of both companies until within a short time of death.

Mr. McGilvray was 68 years of age last October and is survived by his widow, three daughters, five sons, a brother, W. B. McGilvray of Denver and a cousin David Seerie also of Denver. W. B. McGilvray and Mr. Seerie arrived in San Francisco Thursday morning.

Paint Manufacturers To Handle Their Own Products.

The Paint Products Corporation, manufacturers of the well know L. and S. Cement Paint, will hereafter act as their own distributors with offices at the same location, Sharon Bldg., San Francisco.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.,

REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,

of BUILDING AND ENGINEERING NEWS published weekly at San Francisco, California for April 1st, 1916.

State of California, City and County of San Francisco, ss.

Before me, Chalmer Munday, a Notary Public, in and for the State and county aforesaid, personally appeared L. A. Larsen, who, having been duly sworn according to law, deposes and says that he is the Publisher of the Building and Engineering News.

Publisher, L. A. Larsen, 560 Mission Street, San Francisco.

Editor, L. A. Larsen, 560 Mission St., San Francisco.

Managing Editor, L. A. Larsen. 560 Mission St., San Francisco.

Business Manager, L. A. Larsen, 560 Mission St., San Francisco.

Owner, L. A. Larsen, 560 Mission St. San Francisco.

Known bondholders, mortgagees, and other security holders, owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities: None.

L. A. LARSEN, Owner.

Sworn to and subscribed before me this 24th day of March, 1916.

CHALMER MUNDAY,

Notary Public in and for the City and County of San Francisco, State of California.

(My commission expires Oct. 18, 1917.)

[SEAL]

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
79	Stokes	Miller	8000
80	Boyd	Scott	1742
81	Franucchi	Delucchi	500
82	Stark	Meek	450
83	Madison	Pasqualetti	800
84	Hamilton	Hamilton	1000
85	Duggan	Moore	500
86	Knudsen	Knudsen	1200
87	Moller	Moller	4800
88	Day	McGowan	800
89	Maddock	Maddock	2500
90	O'Rourke	Rasmussen	450
91	Bishop	Bishop	2000
92	Getz	Fauth	550
93	Fabish	Fabish	4500
94	Lick	Sjorgren	1098
95	de Urioste	Hendricks	3055
96	Johnson	Johnson	2900
97	Johnson	Johnson	2900
98	Brockie	Matthies	1000
99	Hausmann	Hausmann	850
100	Lapham	Lapham	2750
101	Helms	Hlems	1500
102	Yager	Yager	10000
103	Allen	Allen	4250
104	Fabbroni	De Benedetti	1050
105	Perlite	Montani	6550
106	Goddard	Maurer	1772
107	Hanselman	Vodden	6700
108	Dashwood	Houle	4600
109	Johnson	Wade	1930
110	Sperry	Van Sant	7500
111	Noble	Hannah	2000
112	Deckelman	Deckelman	4000
113	White	Heaney	400
114	Keenan	Keenan	40000
115	Fin & Realty	Owner	2900
116	Same	Same	2900
117	City & Co of S F.	Hannah	213773
118	Same	Hogberg	108000
119	Same	Scott	44570
120	Same	Otis	12990
121	Same	Wittman	24577
122	Same	Butte	25728
123	Deckelman	Koschnitzki	1180
124	Demosey	Hinson	5440
125	Spinella	Neil	400
126	Otis	Cole	400
127	Schultze	Floy	400
128	Biscotti	Salanave	450
129	Jestor	Megas	400
130	Parker	Parker	500
131	Overland	Leonard	12500
132	Roth	Farrell	557
133	Stewart Hotel	Lange	13500
134	Hittell	Arthur	5900
135	Menard	Donovan	22000
136	Irwin	Higgins	3950
137	Helms	Helms	1500
138	Bradbury	Johanson	4758
139	Boyd Invst	Gurnette	1395
140	Lauray	Higginson	17750
141	Scooffy	Mitrovich	825
142	Ashley	Novelty	400
143	Rowley	Rowley	400
144	Shurtleff	Holm	600
145	Kingston	Kingston	22000
146	Tusch	Tusch	1200
147	Koenig	Koenig	3500
148	Fook Ching Hong	Gilchrist	450
149	East'n Outfitting	Novelty	400
150	Craig	Craig	400
151	Fraser	Schroder	7160
152	Dixon	Wilhelm	2950
153	Lowenbein	Petersen	2090
154	Same	Salh	10351
155	Mercantile	Palmer	2200
156	Samuelson	Olson	1500
157	Negro	Sturges	450
158	von Soosten	Owner	500
159	Clinton	Novelty	800
160	Kreling	Binet	500
161	Heyman	Heyman	1950
162	McCarthy	Ballinger	700
163	Langendorf	Boyer	400
164	Boyyer	Boyer	850
165	Donough	McNamee	400
166	Ham	Ham	9000
167	Harrington	Harrington	4000
168	Boien	Stiefel	500
169	Kathri	Loveland	500
170	Hauschildt	Owner	400
171	Symmons	Thorup	500
172	Little	Little	85000
173	Tartaul	Chiappe	11000
174	Tartaul	Jarvis	1120
175	Allee	McGowan	3370
176	Saxe	Rench	3432
177	Malaspina	Filippis	6250
178	Rossi	McLean	1500
179	McNear	Henderson	5423

ALTERATIONS, ETC.

(739) E SEVENTH 95 S Lincoln Way S 25xE 120. Alterations and construction of three-story and basement into frame flats

Owner.....Frederick R. and Marguerite L. Stokes, Premises or 152 Lyon, S. F.

Architect...T. Paterson Ross, 310 California, San Francisco.

Contractor..Fred Miller, 225 Dolores, San Francisco.

Filed Mar. 17, '16. Dated Mar. 17, '16.

2nd story joists set	$1500
Roof on	1500
Brown coat on walls & ceilings	1500
Completed and accepted	1500
Usual 35 days	2000
TOTAL COST,	$8000

Bond, none. Limit, 90 days from filing. Forfeit, $10. Plans and specifications filed.

HEATING, ETC.

(740) W FIFTH AND MARKET NW 50xSW 75. Heating, pipe extension, refitting of radiators, plumbing, drainage, etc., for alterations and addicions to 5-story and basement Class "C" hotel building.

Owner.....Boyd Investment Co., 255 California, San Francisco.

Architect...Nathaniel Blaisdell, 255 California, San Francisco.

Contractor..Scott Co., 243 Minna, S. F.

Filed Mar. 17, '16. Dated Mar. 8, '16.

Roughing in of both systems completed	$650
Completed and accepted	656
Usual 35 days	436
TOTAL COST,	$1742

Bond, $871. Surety, New Amsterdam Casualty Co. Limit, 70 days. Forfeit, $10. Plans and specifications filed.

ALTERATIONS

(741) NO. 391 CHARTER OAK. Raise underpin and alter dwelling.

Owner.....B. Franucchi, Premises.

Architect...None.

Contractor..Delucchi & Co., 241 Bowdoin, San Francisco.

COST, $500

ALTERATIONS

(742) NO. 21 STOCKTON. Alter front and change mezzanine floor.

Owner.....R. S. Stark, 97 Market, San Francisco.

Architect...None.

Contractor..T. H. Meek, 1132 Mission, San Francisco.

COST, $150

RETAINING WALL

(743) W FIFTH, bet. Minna and Mission. Construct brick retaining wall.

Owner.....Madison & Burke, 151 Sutter, San Francisco.

Architect...None.

Contractor..J. Pasqualetti, 785 Market, San Francisco.

COST, $800

FRAME DWELLING

(744) S NORWICK 45 W Harrison. One and one-half-story and basement frame dwelling.

Owner.....F. C. Hamilton, 10 Boyd, San Francisco.

Architect..None.

Day's work. COST, $1000

ALTERATIONS

(745) NO. 47 GERMANIA. Re-arrange partitions, minor alterations for flats

Owner.....E. C. Duggan.

Architect...None.

Contractor..Moore & Burlingame, 110 Jessie, San Francisco.

COST, $500

FRAME DWELLING

(746) S REGENT 300 E San Jose Ave. One-story and basement frame dwlg.

Owner.....J. Knudsen, 530 Banks, San Francisco.

Architect...None.

Day's work. COST, $1200

BRICK STORES

(747) N SACRAMENTO 30 E Kearny. Two-story and basement brick stores

Owner.....R. W. Moller, 185 Stevenson, San Francisco.

Architect...None.

Contractor..R. W. Moller, 185 Stevenson, San Francisco.

COST, $4800

ALTERATIONS

(748) N ELLIS 275 S Hyde. Underpin wall.

Owner.....Mrs. R. Day.

Architect...None.

Contractor..McGowan & Butler, 18[illegible] Jessie, San Francisco.

COST, $800

FRAME FLATS

(749) S BOYD 80 E Chesley. Two-story and basement frame (6) flats.

Owner.....R. H. Maddock.

Architect...None.

Day's work. COST, $2500

ALTERATIONS

(750) NO. 185 RHODE ISLAND. Alter and repair cottage.

Owner.....Mr. O'Rourke, Premises.

Architect...None.

Contractor..G. E. Rasmussen, 133[illegible] Rhode Island, S. F.

COST, $150

FRAME DWELLING

(751) NE WINDING WAY & NAYLOR One-story and basement frame dwlg.

Owner.....F. E. Bishop, 755 San Jose Ave., San Jose.

Architect...None.

Day's work. COST, $2000

ALTERATIONS

(752) NO. 1220 NINTH AVE. Alter for flats.

Owner.....Col Getz & Sons, Chronicle Bldg., San Francisco.

Architect..None.

Contractor..M. Fauth, 77 21st Ave., San Francisco.

COST, $550

FRAME STORES AND FLATS
(753) SE CLEMENT & THIRTY-FIRST Ave. Two-story and basement frame (2) stores and (2) flats.
Owner.....E. Fabish, 192 Valley, S. F.
Architect ...None.
Day's work. COST, $4500

ALTERATIONS
(754) NE HARRIET from No. 331 to 345, incl., Harriet. All work except painting for alterations, repairs, etc., to two-story frame building (8 tenements).
Owner.....E. W. Lick, 45 Kearny, San Francisco.
Architect ...August Nordin, Mills Bldg., San Francisco.
Contractor..Sjorgren Bros., 3058 Army, San Francisco.
Filed Mar. 18, '16. Dated Mar. 15, '16.
Completed and accepted.....$823
Usual 35 days..... 275
TOTAL COST, $1098
Bond, $550. Surety, Guardian Casualty Co. Limit, 30 days. Forfeit, $3. Plans and specifications filed.

PAINTING, ETC.
(755) NE VAN NESS AVE AND McAllister 120x109. Painting and papering for apartments and stores.
Owner.....Mrs. Hannah de Urioste.
Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.
Contractor..P. F. Hendricks, 449 10th Ave., San Francisco.
Filed Mar. 18, '16. Dated Mar. 16, '16.
Priming coat applied.....$750
Finishing coat on interior applied 750
Finished and accepted..... 750
Usual 35 days..... 805
TOTAL COST, $3055
Bond, $1550. Surety, New Amsterdam Casualty Co. Limit, expeditiously as other work will permit. Forfeit, $20. Plans and specifications filed.

E. R. Hoerchner
Attorney-at-Law
Phone Garfield 2856
Phelan Bldg. San Francisco

Chester B. Loomis, M. E.
CONSULTING ENGINEER
Power and Pumping Plants
Cost Studies. - Design.
Installation. - Testing.
Reports.
419 Wilcox Building
Los Angeles, California

CABINET MAKERS.
Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

FRAME RESIDENCE
(756) W TWENTY-FIRST AVE 75 S Clement. Two-story and basement frame residence.
Owner.....Johnson & Johnson, 844 14th, San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME RESIDENCE
(757) W TWENTY-FIRST AVE 50 S Clement. Two-story and basement frame residence.
Owner.....Johnson & Johnson, 844 14th, San Francisco.
Architect ...None.
Day's work. COST, $2900

STEAM HEATER ROOM
(758) SW JACKSON AND JONES. Steam heater room.
Owner.....W. S. and Annie Brokie, Smith Creek, San Jose.
Architect ...A. A. Cantin, 68 Post, S. F.
Contractor..H. C. Matthies, 180 Jessie, San Francisco.
COST, $1000

ALTERATIONS
(759) SW FILLMORE AND WASHington. Alter store.
Owner.....L. M. Hausmann, 3034 Jackson, San Francisco.
Architect ...None.
Day's work. COST, $850

FRAME DWELLING
(760) E TWENTY-FIRST AVE 250 S Anza. Two-story and basement frame dwelling.
Owner.....Frank Lapham, 534 18th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2750

FRAME RESIDENCE
(761) LOT 4 BLK "O," Mission Terrace. All labor and material, etc., for two-story frame residence.
Owner.....Edw. F. Helms, 5th Ave. near California, S. F.
Architect ...E. Helms, 5th Ave., nr California, San Francisco.
Contractor..E. Helms.
Filed Mar. 20, '16. Dated Mar. 15, '16.
Frame up and building enclosed.$375
Brown coated 375
Completed and accepted..... 375
Usual 35 days..... 375
TOTAL COST, $1500
Bond, none. Limit, 60 days after Mar. 16. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(762) E TWENTY-SECOND AVE 90 S California S 50x120. All work for two two-story and basement frame buildings (2 flats).
Owner.....Grace Yager, 1539 Clay, San Francisco.
Architect ...None.
Contractor..W. W. Yager, 1485 Pine, San Francisco.
Filed Mar. 20, '16. Dated Mar. 10, '16.
Roof on $2500
Finish coat plaster on..... 2500
Completed and accepted..... 2500
Usual 35 days..... 2500
TOTAL COST, $10,000
Bond, none. Limit, 85 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(763) S ALLSTON WAY 120 E Claremont Blvd., being Lot 3 Blk 2978 Merritt Terrace. Carpenter work for two-story and basement frame dwlg.
Owner.....Charlotte D. Allen, 4525 Mission, San Francisco.
Architect ...None.
Contractor..Louis L. Allen, 4525 Mission, San Francisco.
Filed Mar. 20, '16. Dated Feb. 26, '16.
Frame up and enclosed with sheathing $1062.50
1st coat plaster on..... 1062.50
Completed 1062.50
Usual 35 days..... 1062.50
TOTAL COST, $4250.00
Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.
NOTE:—1st report March 6, No. 555.

ALTERATIONS, ETC.
(764) S HARRINGTON 175 W Mission W 25xS 100. Erection, alteration and addition to one-story and basement frame building.
Owner.....Cesare Fabbroni.
Architect ...None.
Contractor..A. De Benedetti, 20 Cotter, San Francisco.
Filed Mar. 20, '16. Dated Mar. 16, '16.
Building roofed $262.50
Brown coated 262.50
Completed and accepted..... 262.50
Usual 35 days..... 262.50
TOTAL COST, $1050.00
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(765) E LEAVENWORTH 109-6 N Vallejo N 28xE 125. All work except mantels, shades, finish hardware, lighting fixtures, wall paper and art glass for two-story and basement frame flats.
Owner.....John H. Perlite, 2027 Powell, San Francisco.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..Montani & Stefanini, 1953 Greenwich, San Francisco.
Filed Mar. 20, '16. Dated Mar. 18, '16.
Frame up and roof on.....$1637.50
Brown coated 1637.50
Completed and accepted..... 1637.50
Usual 35 days..... 1637.50
TOTAL COST, $6550.00
Bond, $3300. Sureties, F. Boicelli and G. Giusti. Limit, 90 days after March 21. Forfeit, $5. Plans and specifications filed.

STORE BUILDING
(766) S BALBOA 95 E Sixth Ave E 25 xS 100 O L 376. All work for store building.
Owner.....Alfred Goddard, 452 Balboa, San Francisco.
Designer .. U. S. Simonds, 251 27th Ave., San Francisco.
Contractor..Fred J. Maurer, 3526 Fulton, San Francisco.
Filed Mar. 20, '16. Dated Mar. 20, '16.
Brown coated 25%
Standing finish on..... 25%
Completed and accepted..... 25%
Usual 35 days..... 25%
TOTAL COST, $1772
Bond, limit, forfeit, none. Plans and specifications, none.

FRAME FLATS
(767) E NINETEENTH 199-1¾ N California. All work for two-story and basement frame flats.
Owner.....Emma Hanselman, 719 Cole San Francisco.
Architect ...None.

Contractor..Walter G. Vodden, 1015 Cole, San Francisco.
Filed Mar. 20, '16. Dated Mar. 20, '16.
Roof on .....
Brown coated .....
Ready for painter.....
Completed and accepted.....
Usual 35 days.....
TOTAL COST, $6700
Bond, none. Limit, 120 days after Apr. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(768) SE CLARA 175 SW Ritch SW 25x 75 SE 80. Concrete, carpentry, painting and plumbing for two-story frame flats.
Owner.....Louisa A. Dashwood, 19½ Shipley, San Francisco.
Architect ...None.
Contractor..H. Houle, 660 Market, San Francisco.
Filed Mar. 20, '16. Dated Feb. 15, '16.
Rough frame up.....$1150
Brown coated 1150
Completed 1150
Usual 35 days..... 1150
TOTAL COST, $4600
Bond, none. Limit, 90 days from March 1, 1916. Forfeit, none. Plans and specifications filed.

FRAME STORE ROOM
(769) S FOLSOM & RITCH SE 175 SW 75 SE 50 NE 75 NW 50. All work for one-story and basement frame store room.
Owner.....The Johnson Gear Co., 735 Folsom, San Francisco.
Architect ..H. Geilfuss & Son, 46 Kearry, San Francisco.
Contractor..E. J. Wade and P. Carlson, 105 Webster, S. F.
Filed Mar. 20, '16. Dated Mar. 16, '16.
Completed and accepted.....$1447.50
Usual 35 days..... 482.50
TOTAL COST, $1930.00
Bond, $965. Surety, Maryland Casualty Co Limit, 21 days. Forfeit, $10. Plans and specifications filed.

CONCRETE FOUNDATION
(770) NE GREEN AND SANSOME. Concrete foundation for proposed 3-story building of brick and concrete construction.
Owner.....Sperry Flour Co., Orient Bldg., San Francisco.
Architect ...C. A. Tantau, Clunie Bldg., San Francisco.
Contractor..Van Sant-Houghton, 503 Market, San Francisco.
COST, $7500

ADDITION
(771) S BUSH 126 W Pierce. One-story brick addition to repair shop.
Owner.....Dr. Inez Cook Noble, Lick Bldg., San Francisco.
Architect ...J. R. Miller, Lick Bldg., San Francisco.
Contractor..J. D. Hannah, 750 Monadnock Bldg., San Francisco.
COST, $2,000

FRAME RESIDENCE
(772) W NINETEENTH AVE 287-6 N Ulloa. Two-story and basement frame residence.
Owner.....Amalia C. Deckelman, 901 Powell San Francisco.
Architect ...Chas. Frye, 20 Montgomery, San Francisco.
Day's work. COST, $4000

FRAME DWELLING
(773) NO. 230 SEVENTEENTH AVE. One-story and basement frame dwlg.
Owner.....Mr. and Mrs. White, Prem.
Architect ...None.
Contractor..F. G. Heaney, 374 22nd Ave., San Francisco.
COST, $400

BRICK HOTEL
(774) E MASON 137-6 N Post. Five-story and basement brick and steel hotel.
Owner.....C. J. Keenan, 20 Broderick, San Francisco.
Architect ...Theo. W. Lenzen, 709 Humboldt Bank Bldg., S. F.
Day's work. COST, $40,000

FRAME DWELLING
(775) E FORTY-FOURTH AVE 250 S Geary. Two-story and basement frame dwelling.
Owner.....Finance & Realty Development Co., 340 Phelan Bldg., San Francisco.
Architect ...None.
Day's work. COST, $2900

(Correction in Location)
FRAME DWELLING
(776) E FORTY-FOURTH AVE 225 S Geary. Two-story and basement frame dwelling.
Owner.....Finance & Realty Development Co., 340 Phelan Bldg., San Francisco.
Architect ...None.
Day's work. COST, $2900

GENERAL CONSTRUCTION
(777) E POTRERO AVE., bet 21st & 23rd. General construction southeast wing San Francisco Hospital.
Owner.....City & County of San Francisco.
Architect ...Herman Barth, 12 Geary, San Francisco.
Contractor..J. S. Hannah, Williams Bldg., San Francisco.
COST, $217,773

(778) BRICK AND TERRA COTTA work on above.
Contractor. Hogberg & Ludwig, 180 Jessie, San Francisco.
COST, $108,000

(779) PLUMBING ON ABOVE.
Contractor..Scott Co., 243 Minna, S. F.
COST, $44,570

(780) ELEVATOR WORK ON ABOVE.
Contractor..Otis Elevator Co., Beach and Stockton, S. F.
COST, $12,990

(781) HEATING AND VENTILATING on above.
Contractor..Wittman-Lyman, 241 Minna, San Francisco.
COST, $24,577

(782) ELECTRIC WORK ON ABOVE.
Contractor..Butte Eng. & Elec. Co., 683 Howard, San Francisco.
COST, $25,728

FRAME RESIDENCE
(783) W NINETEENTH AVE, bet. "T" and "U." Carpenter work, roofing, metal work and patent flues for frame residence,
Owner.....Amalia C. Deckelman, 901 Powell, San Francisco.
Architect ...Chas. C. Frye, 20 Montgomery, San Francisco.
Contractor..J. Koschnitzki, 1321 12th Ave., San Francisco.
Filed Mar. 21, '16. Dated Mar. 20, '16.
Ready for plaster..... .50%
Completed and accepted..... 50%
TOTAL COST, $1180
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications, none.

FRAME DWELLING
(784) W THIRTY-THIRD AVE 125 N Balboa 50x125. All work for two 2-story and basement frame dwellings.
Owner.....H. J. Dempsey, 45 Kearny, San Francisco.
Architect ...None.
Contractor..L. A. Hinson, 180 Jessie, San Francisco.
Filed Mar. 21, '16. Dated Mar. 16, '16.
Frames completed and roof boarded $1360
Completion of plaster..... 1360
Completed and accepted..... 1360
Usual 35 days..... 1360
TOTAL COST, $5440
Bond, $2720. Surety, Guardian Casualty & Guaranty Co. Limit, 80 days. Forfeit, $2. Plans and specifications filed.
NOTE:—One building will be erected on W 33rd Ave 150 N Balboa.

ADDITION
(785) NO. 1319 FORTY-SIXTH AVE. Add three rooms to dwelling.
Owner.....G. Spinella, Premises.
Architect ...None.
Contractor..Neil Bros., 4221 Moraga, San Francisco.
COST, $400

STAGING
(786) S MARKET near Eighth (old City Hall). Erect temporary staging.
Owner.....James Otis, Trustee, 312 Market, San Francisco.
Architect ...Wright & Rushforth, 354 Pine, San Francisco.
Contractor..P. J. Cole, 1231 Market, San Francisco.
COST, $400

ALTERATIONS
(787) NO. 909 ILLINOIS. Alter for saloon and hotel.
Owner.....Mrs. H. H. Schultze, 925 Texas, San Francisco.
Architect ...None.
Contractor..H. H. Floy, 911 Illinois, San Francisco.
COST, $400

ADDITION
(788) NO. 1820 LARKIN. Add room and porch.
Owner.....J. Biscotti, Premises.
Architect ...None.
Contractor..J. Salanave, 931 Pacific, San Francisco.
COST, $450

ALTERATIONS
(789) NO. 2695 MISSION. Alter front.
Owner.....Phillip Jestor, Premises.
Architect ...None.
Contractor..Peter Megas, 3676 19th, San Francisco.
COST, $400

ALTERATIONS
(790) NO. 530 JUDAH. Alter and raise building for garage.
Owner.....Mrs. J. D. Parker, Premises
Architect ...None.
Contractor..I. S. Parker, 2273 California, San Francisco.
COST, $500

FOUNDATION
(791) W VAN NESS AVE., bet. Bush and Fern Ave. Construct reinforced concrete foundation for future building.

Owner.....Overland Stores Co., 301 Golden Gate Ave., S. F.
Engineer ...C. F. Wieland, 703 Market, San Francisco.
Contractor..Leonard Constr. Co.
COST, $12,500

UNDERPINNING HOTEL
(792) NO. 275 O'FARRELL. Brick work and footings bulkheading, shoring and house lifting, etc., for underpinning south wall of Bay State Hotel.
Owner.....Daniel Roth.
Architect ...G. Albert Lansburgh, M. A. Gunst Bldg., S. F.
Contractor..Farrell & Reed, M. A. Gunst Bldg., San Francisco
Filed Mar. 22, '16. Dated Mar. 7, '16.
Completed and accepted..... 75%
Usual 25 days..... 25%
TOTAL COST, $557.56
Bond, $280. Surety, F. L. Hansen. Limit, 15 days after recording. Forfeit none. Plans and specifications, none.

ALTERATIONS
(793) S GEARY, bet. Powell and Mason. Alterations and additions to Hotel Stewart.
Owner.....Stewart Hotel Co., Prem.
Architect ...Louis C. Mullgardt, Chronicle Bldg., San Francisco.
Contractor..Lange & Bergstrom, Sharon Bldg., S. F.
Filed Mar. 22, '16. Dated Mar. 7, '16.
Payments every 30 days..... 75%
Usual 35 days..... 25%
TOTAL COST, $13,500
Bond, none. Limit, July 1, 1916. Forfeit, none. Plans and specifications filed.

REPAIR SHOP AND GARAGE
(794) N FOLSOM 200 W Third W 50x N 137-6. Concrete, brick, painting, carpenter, roofing and iron work for one-story brick repair shop and garage.
Owner.....Theodore H. Hittell 808 Turk San Francisco.
Architect ...None.
Contractor. L. Arthur, 1230 Arguello Blvd., San Francisco.
Filed Mar. 22, '16. Dated Mar. 18, '16.
Concrete work in and brick work
½ completed $1475
Brick work completed..... 1475
Completed and accepted..... 1475
Usual 35 days..... 1475
TOTAL COST, $5900
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME APARTMENTS
(795) SE BROADWAY AND LEAVENWORTH E 68xS 40. All work for three-story frame apartments.
Owner.....Jos. Menard, 140 Clinton Park, San Francisco.
Architect .. Wm. Beasley, 127 Montgomery, San Francisco.
Contractor..P. W. Donovan, 257 Crescent Ave., San Francisco.
Filed Mar. 22, '16. Dated Mar. 4, '16.
3rd floor joists in place.....$4125
Roof on 4125
Plastered 4125
Completed 4125
Usual 35 days..... 5500
TOTAL COST, $22,000
Bond, $11,000. Sureties, Peter Barale and L. Giordanengo. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(796) W NINETEENTH AVE 100 W Ulloa W 33.4x120. All work for one-story frame dwelling.
Owner.....St. Clair V. Irwin, 512 Frederick, S. F.
Architect ...None.
Contractor..C. C. Higgins & Son, Lick Bldg., San Francisco.
Filed Mar. 22, '16. Dated Mar. 18, '16.
Roof on $987.50
Plastering completed 987.50
Completed and accepted..... 987.50
Usual 35 days..... 987.50
TOTAL COST, $3950.00
Bond, limit, forfeit, plans and specifications, none.

FRAME DWELLING
(797) LOT 3 BLK "O" Mission Terrace All work for one-story and basement frame dwelling.
Owner.....Edward F. Helms, California near 5th Ave., S. F.
Architect ...E. Helms.
Contractor..E. Helms.
Filed Mar. 22, '16. Dated Mar. 15, '16.
Frame up and enclosed.....$375
Brown coated 375
Completion notice filed..... 375
Usual 35 days..... 375
TOTAL COST, $1500
Bond, none. Limit, 60 days from Mar. 16, 1916. Forfeit, none. Plans and specifications filed.

FRAME DWELLINGS
(798) E CHURCH 208 S 22nd 52x125. All work for two two-story and basement frame dwellings.
Owner.....Bradbury Estate Invst. Co.
Architect ...None.
Contractor..J. Eric Johanson, 110 Jessie San Francisco.
Filed Mar. 22, '16. Dated Mar. 22, '16.
Frame up $1939
Brown coated 1939
Completed and accepted..... 1939
Usual 35 days..... 1941
TOTAL COST, $7758
Bond, Guaranty bond in favor of owner. Sureties, Anna K. Johanson and Gustaf Erickson. Limit, 90 days from March 25. Forfeit, none. Plans and specifications filed.

PAINTING, STAINING, ETC.
(799) W FIFTH AND MINT AVE NW 50xSW 75. Painting, staining, varnishing, decorating, etc. for alterations and additions to five-story and basement Class "C" building.
Owner.....Boyd Investment Co., 255 California, S. F.
Architect ...Nathaniel Blaisdell, 255 California, San Francisco.
Contractor .Gurnette & Chandler, 51-A Beaver, San Francisco.
Filed Mar. 23, '16. Dated Mar. 8, '16.
Painting, etc., ½ completed.....$500
Completed and accepted..... 546
Usual 35 days..... 349
TOTAL COST, $1395
Bond, none. Limit, American Surety Co. Limit, 70 days. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS
(800) W LEAVENWORTH 20 N Broadway N 50xW 60. All work including steam heat for three-story and basement frame building (15 apartments)
Owner.....Julien Lauray and Joseph Couragent, 110 Sutter, S. F.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Mar. 23, '16. Dated Mar. 14, '16.
Frame up $4436
Brown coated 4436
Completed and accepted..... 4438
Usual 35 days..... 4438
TOTAL COST, $17,750
Bond, $8875. Sureties, J. H. McCallum and . O. Benner. Limit, 90 days from receiving building permit. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(801) NW PINE AND BRODERICK — 82-6 W 27-6 S 82-6 E 27-6. Alterations and additions, etc., for store spaces in building.
Owner.....Ida M. Scooffy.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor. J. I. Mitrovich Bldg. Co.
Filed Mar. 23, 16. Dated Mar. 22, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $925
Bond, $475. Surety, J. A. Hillendahl. Limit, April 23, 1916. Forfeit, $10. Plans and specifications filed.

ELECTRIC SIGN
(802) NO. 325 SIXTH AVE. Electric sign.
Owner.. ...Ashley, McMullen Co., 325 6th Ave., San Francisco.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ALTERATIONS
(803) NO. 2855 SCOTT. Underpin and alter dwelling.
Owner.....Mrs. B. N. Rowley, 398 60th Oakland.
Architect ...None.
Day's work. COST, $400

ADDITION
(804) NO. 311 SPRUCE. Add two rooms for dwelling.
Owner.....Chas. A. Shurtleff, Prem.
Architect ...Alex. A. Cantin, 68 Post, San Francisco.
Contractor..Holm & Merchant, 68 Post, San Francisco.
COST, $600

CONCRETE APARTMENTS
(805) N EDDY 275 W Larkin. Four-story and basement reinforced concrete (24) apartments.
Owner.....John Kingston, Gartland Hotel, Geary & Larkin, San Francisco.
Architect ...Rhodes & Marish, 3372 16th, San Francisco.
Day's work. COST, $22,000

FRAME DWELLING
(806) W TWENTY-FOURTH Ave, bet. Taraval and Ulloa. One-story and basement frame dwelling.
Owner.....Geo. A. Tusch, 426 Hugo, San Francisco.
Architect ...None.
Day's work. COST, $1200

FRAME RESIDENCE
(807) W TWELFTH AVE 142 N Cabrillo. Two-story and basement frame residence.
Owner.....Margaretha J Koenig, 1108 Cabrillo, San Francisco.
Architect ...Wm. Koenig, 1108 Cabrillo San Francisco.
Day's work. COST, $3500

ALTERATIONS
(808) NO. 843 GRANT AVE. Minor alterations for store.
Owner.....Fook Chin Hong, Premises.
Architect ...None.

Contractor..James Gilchrist, 248 Stevenson, San Francisco.
COST, $450

ELECTRIC SIGN
(809) NO. 1017 MARKET. Electric sign.
Owner.....Eastern Outfitting Co., Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

CONCRETE FLOOR
(810) NO. 1536 ELLIS. Concrete floor and repair roof.
Owner.....R. J. Craig, Lessee, 1521 Buchanan, San Francisco.
Architect...None.
Day's work. COST, $400

FRAME STORE AND FLATS
(811) E SHRADER 125 N Fell N 25x E 100. All work except plastering, wall beds, wall paper and gas heaters for two-story and basement frame store and flats.
Owner.....Simon Fraser, 3873 20th, San Francisco.
Architect ...Edw. E. Young, 251 Kearny, San Francisco.
Contractor..Schroder Bros., 765 Folsom San Francisco.
Filed Mar. 24, '16. Dated Mar. 20, '16.
Frame up $1790
Brown coated 1790
Completed and accepted..... 1790
Usual 35 days..... 1790
TOTAL COST, $7160
Bond, $3580. Surety, Guardian Casualty & Guaranty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME COTTAGES
(812) SE SHIPLEY 225 SW Fifth SW 25xSE 75. All work for four one-story frame cottages.
Owner.....Helen C. Dixon, 915 Fulton San Francisco.
Architect ...None.
Contractor..A. H. Wilhelm, 180 Jessie, San Francisco.
Filed Mar. 24, '16. Dated Mar. 23, '16.
Frames up $737.50
1st coat of mortar..... 737.50
Completed and accepted..... 737.50
Usual 35 days..... 737.50
TOTAL COST, $2950.00
Bond, none. Limit, 75 days after Mar. 27. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS
(813) S WASHNGTON 60 W Divisadero W 60xS 50. Rough and finish work for sewering, plumbing, gas fitting, steam heating and hot water plant, oil tank, storage tank, hot water heaters, etc., for three-story and basement frame apartments.
Owner.....Sara Lowenbein.
Architect ...Bernard J. Joseph, New Contractor..Petersen-James Co., 710 Larkin, San Francisco.
Filed Mar. 24, '16. Dated Mar. 15, '16.
Roughing in completed for plumbing and gas fitting and steam heating and hot water plant, and oil tanks set $750
Completed and acceptetd..... 815
Usual 35 days..... 525
TOTAL COST, $2090
Bond, $1050. Surety, Guardian Casualty & Guaranty Co. Limit, 40 days. Forfeit, none. Plans and specifications filed.

(814) EXCAVATION, GRADING, CONCRETE and artificial stone work, brick work, mosaic composition steps, tile and marble work, fire escapes, carpenter, mill, stairs, roofing, tin and galvanized iron, lath and plaster wall beds, hardware, glass, etc., on above.

Contractor..Salih Constr. Co., 2011 Milvia, Berkeley.
Filed Mar. 24, 16. Dated Mar. 15, '16.
Foundation walls and piers completed and wall plates set and 1st floor joists set.....$ 750
Frame completed, roof boarded, rustic on and front sheathed... 750
All work done ready for lathing 1500
Plastering completed 1000
Sash glazed and hung, door jambs and beads set, side boards and dressers, etc., set and stairs completed 1500
Completed and accepted..... 2261
Usual 35 days..... 2590
TOTAL COST, $10,351
Bond, $5200. Surety, Massachusetts Bonding & Insurance Co. Limit, 120 days. Forfeit, none. Plans and specifications filed.

UNDERPINNING, ETC.
(815) N BUSH 55 E Mason E 82-6xN 120; No. 776 Bush. Shoring, underpinning, etc., on the East and North lines of wall, Windemere Apartments
Owner.....Mercantile Trust Co.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
Filed Mar. 24, '16. Dated Mar. 23, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $2200
Bond, $1100. Surety, The Aetna Accident & Liability. Limit, May 1, 1916. Forfeit, $10. Plans and specifications filed.

FRAME DWELLING
(816) S BRUNSWICK 25 E Curtis. One and one-half-story and basement frame dwelling.
Owner.....A. M. Samuelson, 3732 21st, San Francisco.
Architect ...None.
Contractor..H. C. Olson, 338 Holloway, San Francisco.
COST, $1500

ALTERATIONS
(817) NO. 587 SECOND AVE. Raise and make minor repairs for garage.
Owner.....Mrs. Negro, Premises.
Architect ...None.
Contractor..Benj. Sturges, 3931 Geary, San Francisco.
COST, $450

CONCRETE FOUNDATION
(818) SE VERMONT AND 17TH. Concrete foundation.
Owner.....Chas. H. von Soosten, 1033 Page, San Francisco.
Architect ...None.
Day's work. COST, $500

MARQUISE
(819) NO. 136 O'FARRELL. Erect marquise.
Owner.....Clinton Cafeteria, Premises
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $800

ADDITION
(820) N SYCAMORE 135 E Valencia. Add to cottage.
Owner.....Mat. Kreling, 16th and Randall, San Francisco.
Architect ...John J. Foley, 46 Kearny, San Francisco.
Contractor..John J. Binet Co., 68 Ramona, San Francisco.
COST, $550

FRAME DWELLING
(821) S BALBOA 107½ W 28th Ave. Two-story and basement frame dwlg.
Owner.....Oscas Heyman & Bro., Inc. 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1950

ADDITION
(822) NW SURREY AND MIZPAH. Add to frame building.
Owner.....D. J. McCarthy, 396 Surrey, San Francisco.
Architect ...None.
Contractor..Chas. Ballinger, 1611 Mission, San Francisco.
COST, $700

CONCRETE FLOOR
(823) NO. 878 McALLISTER. Concrete floor, etc.
Owner.....Langendorf Baking Co., 1156 McAlister, S. F.
Architect ...None.
Contractor..Bovyer & Sons, 2407 California, San Francisco.
COST, $350

ALTERATIONS
(824) NO. 581 TWENTY-FIFTH AVE. Raise and alter for garage.
Owner.....C. C. Bovyer, Premises.
Architect ...None.
Contractor..Bovyer & Sons, 2407 California, San Francisco.
COST, $850

REPAIRS
(825) NW ELIZABETH & EUGENIA. Repair roof and add one room.
Owner.....Mrs. Donough, 136 Ellsworth, San Francisco.
Architect ...B. Burns, 136 Ellsworth, San Francisco.
Contractor..Thos. McNamee, 358 Moultrie, San Francisco.
COST, $400

FRAME APARTMENTS
(826) N LAKE 78 E Sixth Ave. Two-story and basement frame (4) apartments.
Owner.....L. B. Ham, 274 25th Ave., San Francisco.
Architect ...None.
Day's work. COST, $9000

FRAME DWELLING
(827) E TWENTY-SECOND AVE 275 S Geary. Two-story and basement frame dwelling.
Owner.....A. Harrington, 10 Judah, San Francisco.
Architect ...None.
Day's work. COST, $4000

ALTERATIONS
(828) SE GEARY AND EIGHTH AVE. Alter for store and garage.
Owner.....Phil Boien, Premises.
Architect ...None.
Contractor..John V. Stiefel, 184 23rd Ave., San Francisco.
COST, $500

ALTERATIONS
(829) NO. 3135 PIERCE. Alter store into flat.

Owner. . . . Chas. Kathri, 3131 Pierce, San Francisco.
Architect . . . None.
Contractor . . F. L. Loveland, 2928 Baker San Francisco.
COST, $500

ALTERATIONS
(830) NO. 111 KEARNY. Alter for music booths.
Owner . . . . . Hauschildt Piano Co, Prem
Architect . . . None.
Day's work. COST, $400

PARTITIONS
(831) NO. 275 TWENTY-SIXTH AVE. Erect partitions.
Owner . . . . . Chas. Symmons, Premises.
Architect . . . None.
Contractor . . J. H. Thorup, 281 26th Ave. San Francisco.
COST, $500

CLASS "C" APARTMENTS
(832) SW BUSH AND MASON. Five-story and basement Class "C" (47) apartments and stores.
Owner . . . . . M. A. Little, 1347 4th Ave., San Francisco.
Architect . . . E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $85,000

FRAME APARTMENTS
(833) W HYDE 107-6 S Filbert S 30 xW 110. All work except painting, tinting, papering, plumbing, heating system, brick veneer, lighting fixtures, shades and finish hardware for three-story and basement frame apartment building.
Owner . . . . . Salvatore F. Tartaul, 560 Filbert, San Francisco.
Architect . . . Paul J. Capurro, 1844 Powell, San Francisco.
Contractor . . G. Chiappe, 491 Greenwich, San Francisco.
Filed Mar. 25, '16. Dated Mar. 17, '16.
Board roof on $2750
Brown coated 2750
Completed and accepted 2750
Usual 35 days 2750
TOTAL COST, $11,000
Bond, $5500. Surety, P. Palcanesi and . . Devincenzi. Limit, forfeit, none. Plans and specifications filed.

FRAME APARTMENTS
(834) W HYDE near Union. All work for low pressure heating equipment and oil burner, and hot water system for three-story frame apartments.
Owner . . . . . S. Tartaul, 560 Filbert, San Francisco.
Architect . . . None.
Contractor . . T. P. Jarvis Crude Oil Burner Co., 725 Connecticut San Francisco.
Filed Mar. 25, '16. Dated Mar. 24, '16.
Roughed in and inspected $452
Completed and accepted 452
30 days after 226
TOTAL COST, $1130
Bond, $565. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit none. Plans and specifications filed.

EXCAVATING, ETC.
(835) W FOLSOM 198 S 17th W 122-6 xS 150. Excavating, pumping, piling, etc., for two story reinforced concrete cleaning and dyeing works.
Owner . . . . . Jean Allec, 2148 Folsom, San Francisco.
Architect . . . August G. Headman, New Call Bldg., San Francisco.
Contractor . . McGowan & Butler, 180 Jessie, San Francisco.
Filed Mar 25, '16. Dated Mar. 25, '16.
50% of piles driven $1263.75
Completed and accepted 1263.75
Usual 35 days 842.50
TOTAL COST, $3370.00
Bond, $1685. Surety, The Aetna Accident & Liability Co. Limit, 20 days from recording. Forfeit, $25. Plans and specifications filed.

FRAME DWELLING
(836) E ELEVENTH AVE 225 S Balboa S 25xE 120. All work for two-story and basement frame dwelling.
Owner . . . . . Albert A. Saxe, 441 Sprnce, San Francisco.
Architect . . . None.
Contractor . . Michael C. Rench, 1427 5th Ave., San Francisco.
Filed Mar. 25, '16. Dated Mar. 24, '16.
Frame up $858.12
Brown coated 858.12
Completed and accepted 858.12
Usual 35 days 858.14
TOTAL COST, $3432.50
Bond, $1750. Surety, American Surety Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(837) W TAYLOR 113-6 S Lombard 25 x77-6. All work for three-story and basement frame flats.
Owner . . . . . Giuseppe and Rosa Malaspina.
Architect . . . Italo Zanolini, 604 Montgomery, San Francisco.
Contractor . . V. Filippis, 21 Columbus Ave., San Francisco.
Filed Mar. 25, '16. Dated Mar. 15, '16.
Roof on $1562.50
Brown coated 1562.50
Completed and accepted 1562.50
Usual 35 days 1562.50
TOTAL COST, $6250.00
Bond, $3125. Surety, New Amsterdam Casualty Co. Limit, 90 days from Mar. 15. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(838) NO. 1015 MARKET. Alterations, divide ground floor into three separate individual stores.
Owner . . . . . Peter Rossi, 519 California, San Francisco.
Architect . . . None.
Contractor . . Kerr & McLean, 110 Jessie, San Francisco.
Filed Mar. 25, '16. Dated Mar. 17, '16.
On completion $1100
Usual 35 days 200
60 days after . . . . . Balance
TOTAL COST, $1500
Bond, none. Limit, 15 days. Forfeit, $10. Specifications only filed.

ALTERATIONS
(839) NO. 433 CALIFORNIA. Subdividing and fitting of 10th floor of Insurance Exchange Building.
Owner . . . . . George W. McNear, Lessee, Premises.
Architect . . . Julia Morgan, Merchants' Exchange Bldg., S. F.
Contractor . . W. D. Henderson, Monadnock Bldg., S. F.
Filed Mar. 25, '16. Dated Mar. 25, '16.
On completion 75%
Usual 35 days 25%
TOTAL COST, $5423
Bond, $2711. Surety, Massachusetts Bonding & Insurance Co. Limit, April 17, 1916. Forfeit, $20. Plans and specifications filed.

LEASE.

Mar. 20, 1916—W BRANNAN AND ZOE SW 35xNW 160. E E Kelly, E E Johnson and Kate B Read to Valvoline Oil Co. 5 years. $9900.
Mar. 24, 1916—NOS. 2358 AND 2360 Third. Belle B, Gustav, and Jno Reis to Gnido Pnccinelli and Meo Lazzareschi. 5 years. $35 per month
Mar. 23, 1916—NO. 235 EDDY S line bet. Taylor and Jones. Henry Kahn to Jean Laporte. 5 years. $14,100.
Mar. 23, 1916—SE PINE & PRESIDIO Ave. Engene and Madeline Calmon to Sadi Guillaux. 5 years. $7500.
Mar. 21, 1916—NO. 168 EDDY NE Cor. Taylor. Whittell Realty Co to Flora Alice Beeler. 14 months. $3360.

NOTICE OF NON-LIABILITY.

SAN FRANCISCO COUNTY.

Mar. 22, 1916—S MARKET 75 W 6th W 50xS 90. Annie Vetter, Admx Estate Frederick J Vetter, decd. as to improvements on leased property

NOTICE OF NON-RESPONSIBILITY.

Mar. 20, 1916—W THIRTY-SIXTH Ave 200 S Balboa S 25xW 120. Jacob Weissbein as to improvements on leased property . . . . . .

RECOMMENDS RAZING OF BUILDING.

After an inspection of the premises at 1018 Minnesota street, the Board of Public Works finds that the building does not comply with the Building Law and recommendations have been made to have the structure demolished. The Board also reports that the building used as a Chinese laundry at 49 Ritch street should have a concrete floor, better lighted and ventilated sleeping quarters and a fireproof drying room.

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Mar. 11, 1916—W FORTY-FIFTH AV 175 N Judah. Alexander Neil to whom it may concern . . . Mar. 11, 1916
Mar. 13, 1916—N CALIFORNIA 30 E Leidesdorff E 30 m or l to a pt which is dist 132-6 W Sansome N 124 to S Halleck W 30 m or l S 24. San Francisco Investment Co to Colusa Sandstone Co . . . . Mar. 11, 1916
Mar. 13, 1916—W SIXTEENTH AVE 75 N Clement 25x120; No. 285 16th Ave. Elise P or Mrs E P Roma to Chas Allsop . . . . . Mar. 11, 1916
Mar. 13, 1916—SE LAKE & EIGHteenth Ave S 84xE 82-6 N parallel with E 18th Ave 84 W 28-6. Mary E Hart to L T McNabb . . Mar. 8, 1916
Mar. 14, 1916—W TAYLOR 137-6 N Sutter N 38-9xW 137-6. Biltmore Realty Co to Vincent J Donovan . . . . . March 13, 1916
Mar. 14, 1916—N SILLIMAN 50 E Holyoke E — N 100 W 25 S 100. Frank and Theresa Zanini to Jos Perasso . . . . . Mar. 6, 1916
Mar. 14, 1916—LOT 17 BLK 21 Crocker Amazon Tract. John Bjorkman to whom it may concern. Mar. 11, 1916
Mar. 14, 1916—E BELVEDERE 100 N Waller 25x123-5¼. A Burkhart to John Casty . . . . . Mar. 11, 1916
Mar. 14, 1916—N CABRILLO 90 W 12th Ave N 85xW 27-6. Margaretha J Koenig to whom it may concern . . . . . March 8, 1916
Mar. 14, 1916—S MARKET 150 W 7th W 75 S 165 E 75 N 150. C N Felton to Central Iron Works . . Mar. 10, 1916

Mar. 14, 1916—S BUSH 187-6 W Mason W 42xS 137-6. O'Brien Bros, Inc to Gas & Elec Appl Co and D Zelinsky & Sons.....Completed ——

Mar. 15, 1916—N PAGE 37-6 W Lyon N 95 W 25 S 95 E to beg. Martha Dorgeloh to Barrett & Hilp.....
.....March 11, 1916

Mar. 15, 1916—E CHERRY 40 N Sacramento N 60xE 62-6. Eisenbach Co to Higginson Co, Levy Elec Co, Barrett & Hilp and S Ginsberg & Co
.....March 14, 1916

Mar. 15, 1916—SE GEARY AND 15TH Ave E 50xS 73-8. James Welsh to whom it may concern..Mar. 10, 1916

Mar. 15, 1916—COMG 50 W YORK and 325 S 26th W 25 S 83-6 E 25-0⅞ N 80-10¾. Michael McDonough and Lawrence Costello to whom it may concern.....Mar. 14, 1916

Mar. 15, 1916—NE ANZA & THIRteenth Ave E 120xN 50. E F West to S A Born Bldg Co....Mar. 14, 1916

Mar. 14, 1916—W FIFTEENTH AVE 25 S Balboa S 25xW 77-6. Emil Nelson to whom it may concern.....
.....Mar. 14, 1916

Mar. 16, 1916—NO. 732 EIGHTH AVE Henry and Hattie M Tillman to Otto Carson.....Mar. 11, 1916

Mar. 16, 1916—E CLAYTON 875 m or 1 S Frederick S 30-7½ E 89-5⅝ N 4-9⅜ NW 17-4¾ N 19-3⅞ W 79-5. Henry Jacob to James Welsh.....
.....March 10, 1916

Mar. 16, 1916—N ELLIS 112-6 E Jones 25x137-6. Smith & Stewart to J B Reite.....Mar. 14, 1916

Mar. 17, 1916—S RIVERA 90 W 21st Ave 30x100. N F Nilsson to E M Nilsson.....Mar. 17, 1916

Mar. 17, 1916—S RIVERA 120 W 21st Ave 30x100. N F Nilsson to E M Nilsson.....Mar. 17, 1916

Mar. 17, 1916—E ELEVENTH AVE 125 N Lawton N 25xE 120. Louis Lamotte to Geo H Old....Mar. 8, 1916

Mar. 17, 1916—E THIRD AVE 100 N Balboa 25x120. Leo J Ruegg to whom it may concern...Mar. 17, 1916

Mar. 18, 1916—W GATES (Siegel) 150 S Eugenia Ave (Lincoln) S 25xW 70; Lot 399 Gift Map No. 1. M J and Mary Coffey (wife) to Wm M Reedy .....Mar. 16, 1916

Mar. 18, 1916—S PACIFIC 137-6 W Taylor W 4-3 S 57-6 W 23-3 S 80 E 27-6 N 137-6. Elisabeth Schalich to S Montani and G Stefanini.....
.....March 18, 1916

Mar. 18, 1916—N FILBERT 153-6 W Hyde W 22xN 137-6. George V Oliva to Edward Zinkand.Mar. 16, '16

Mar. 18, 1916—S PARNASSUS AVE 180-4 E Stanyan S 126xE 25. Henry A Meyer to whom it may concern..
.....March 16, 1916

Mar. 20, 1916—SE CALIFORNIA AND Leidesdorff; No. 433 California. The Insurance Exchange to W D Henderson.....Feb. 29, 1916

Mar. 20, 1916—WEBSTER, bet. Clay and Sacramento. Board of Trustees of Leland Stanford Jr. University to J F Braun & Co.....Mar. 13, 1916

Mar. 20, 1916—S BRANNAN 137-6 E 4th E 275xS 275. Elsa M Davis, Vera M Davis, Albert Lachman, Gdn Est Samuel Metzger, minor to Brandon & Lawson....Mar. 11, 1916

Mar. 20, 1916—N CABRILLO 45 W 7th Ave W 25xN 95. H C Christiansen to whom it may concern.Mar. 20, 1916

Mar. 21, 1916—S CHESTNUT AND NE Columbus Ave E 105 S 50 W 63.37 NW 65.065. Lewis Packing Co to whom it may concern...Mar. 20, 1916

Mar. 21, 1916—N SACRAMENTO 91-8 W Taylor. Dollie E P Sullivan to Henry Conrad.....Mar. 21, 1916

Mar. 21, 1916—W STANYAN 75 N Parnassus Ave N 25xW 107. Karl Yngve to Karl Yngve..Mar. 21, 1916

Mar. 21, 1916—LOT 19 BLK 3, Sunnyside. Homestead Realty Co to Wm H Grahn.....Mar. 18, 1916

Mar. 22, 1916—N WASHINGTON 103 W Spruce W 127-8¼xN 62-6. Margaret E Sudden to Forderer Cornice Works.....Mar. 6, 1916

Mar. 22, 1916—E EUREKA 286 S 18th E 125xS 27-6. The Beulah Real Estate Co to Petterson & Persson..
.....March 16 1916

Mar. 22, 1916—NE FRANCISCO AND Taylor. The California Fruit Canners' Ass'n to Jos Pattinson.....
.....March 20, 1916

Mar. 23, 1916—S CLEMENT 57-6 E 24th Ave E 50xS 100. Benj Schmier to Leigh & Schultz.....Mar. 21, 1916

Mar 23, 1916—NE POST & STOCKTON The Pacific Union Club to Forderer Cornice Works, Mar. 18; California Artistic Metal & Wire Co.....
.....March 18, 1916

Mar. 24, 1916—NW TOWNSEND 289 NE Sixth NE 70xNW 125. Moody Est Co to H H Larsen and N Larsen (as H H Larsen & Bro).....
.....March 23, 1916

Mar. 24, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6 m or l. Pacific Gas & Electric Co to Butte Eng & Elec Co.....Mar. 22, 1916

Mar. 24, 1916—W SHOTWELL 109-4 S 22nd S 25 W 142 N 25 E 142-6. Mathilde and Frederick Angerstein to John B Woolfrey....Mar. 24, 1916

Mar. 24, 1916—S LAKE 32-6 W 19th Ave W 25xS 100. Jno V Stiefel to whom it may concern..Mar. 23, 1916

Mar. 24, 1916—W TWENTY-FOURTH Ave 175 S Clement S 25xW 120. Alfred Johnson to whom it may concern.....Mar. 24, 1916

LIENS FILED

San Francisco

Mar. 11, 1916—NW TWENTY-4TH and Poplar Alley W 30 N 83 NE to W Poplar Alley S 83-6. L H Sylvester, $52.50; A J Sternke, $50.75 vs Saporitti & Benetti and J S McLelland .....

Mar. 11, 1916—W MISSION 190-9 N 25th N 25xW 117-6. J P Lorden Mill Co vs Annie M Schulz and Ratto & Ratto.....$482.50

Mar. 11, 1916—W TWENTY-NINTH 180 E Castro E 25xS 114. Henry Gervais vs G Çavaglieri and Joseph F Fogarty $35

Mar. 11, 1916—N EIGHTEENTH 95 E Valencia 80xE 25. Palace Hardware Co vs P M McHugh.....$215.72

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Philip Marchi vs Joseph Fogarty.....$86

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. P E Depaoli vs Joseph F Fogarty and G Cavaglieri $38

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. John Cassaretto vs Joseph F Fogarty and G Cavaglieri $123.05

Mar. 13, 1916—COMG 180 E from N 29th and Castro E 25xN 120. Louis Trebino vs J F Fogarty & G Cavaglieri $31.50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Frank J Klimm, $571.45; Western Furnace & Cornice Co, $299.60 vs Mrs L G Auzerais .....

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. P P Lund vs Mrs L G Auzerais.....$470

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼ Lyden & Bickel vs Andrew Wilkie Co and Mrs L G Auzerais.....$711.20

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. O Dudzeck and M Leutholdt (as M Leutholdt & Co) vs Frank A Wilkie and Mrs L G Auzerais.....$170

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. W P Fuller & Co vs A Wilkie Co, F A Wilkie and Mrs L G Auzerais....$288

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 137-8¼. Butte Eng & Elec Co vs Mrs L G Auzerais
.....$219.15

Mar. 14, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Eagle Elec Co vs Joseph Fogarty and G Cavaglieri $50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS127-8¼. H E Drake vs L G Auzerais and Frank A Wilkie.....$158.70..

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Holloway Expanded Metal Co, $31.20; Pope & Talbot, $1154.72; Herring's Mill, Inc, $838 vs Mrs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—LOT 21 BLK "K" Mission Terrace (NE Cor. Santa Ynez Ave and Capistrano Ave). H G Dolder and A A Derrickson vs Pietro Cembrano or P Cenbrano.$825

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Bay Development Co, $166.03; Pacific Portland Cement Co, $34.55 vs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Joseph Musto Sons-Keenan Co vs Mrs L G Auzerais and Frank A Wilkie $129.20

Mar. 16, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Acme Lumber Co vs Jos F Fogarty and G Cavaglieri $175

Mar. 17, 1916—N HOWARD 215 W Third W 60xN 80. Victor Rosenbaum vs Emma T Corr.....$50

Mar. 17, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3⅞ to a pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. Mangrum & Otter vs Louise D and J C Brickell and Murray Vandall, John Brickell Co and E M Reagh.....$173.50

Mar. 17, 1916—LOT 7 BLK 291 O'Neil & Haley Tract. Michael Ostorero vs Pietro Salon.....$372.30

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Joost Bros vs L G Auzerais and F A Wilkie $74.52

Mar. 20, 1916—N EIGHTEENTH 95 E Valencia 25x80. William Hemington vs F H McHugh.....$160

Mar. 20, 1916—LOT 21 BLK "K" Misson Terrace. Palace Hardware Co vs H G Dolder and A A Derrickson (as Dolder & Derrickson.....$54.41

Mar. 20, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Palace Hardware Co vs Mrs L G Auzerais $287.41

Mar. 20, 1916—N BUSH 114-7 E Leavenworth E 91-8xN 137-6. Geo and Frank U Burnett vs Josephine Hall and C F and Rose Pickering..
.....$186

Mar. 21, 1916—SW SACRAMENTO & Fillmore W 80xS 40. John Cassa-

retto, $144.65; J S Guerin, $229.50 vs George B Burton.....

Mar. 21, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Inlaid Floor Co vs F A Wilkie and Leonide G Auzerais.....$317.25

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Joseph Spingola vs Dolder & Derrickson and P Cenbrano $105

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Reinhart Lumber & Planing Mill Co vs H G Dolder, A A Derrickson and Pietro Cembrano or P Cenbrano $250

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Pope & Talbot vs Pietro Cenbrano or P Cenbrano, H P Dolder and A A Derrickson....$195

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Joseph Spingola vs Dolder & Derrickson and P Cenbrano $105

Mar. 23, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. J K Stewart vs Frank A Wilkie and Mrs L G Auzerais.....$30

Mar. 22, 1916—NO. 711 SHOTWELL, bet 21st and 22nd. Giuseppe Mariani vs G Cavaglieri and August Sherzel $96

Mar. 24, 1916—SW FILLMORE AND Sacramento W 80xS 40. M A Fennila, $63.50; John Fraser, $68.75; Phoenix Sidewalk Light Co. $87.50 vs Geo B Burton and H W Arnold

Mar. 24, 1916—SE FILLMORE AND Sacramento W 80 S 40 E 80 W 40. L Dematteí vs Geo B Burton and H W Arnold.....$231.25

RELEASE OF LIENS.

San Francisco

Mar. 17, 1916—E SEVENTEENTH Ave 32-4½ S Rivera S .5xE 138-10. Eureka Sash, Door & Moulding Mills to Bessie G and E R Hayden..

Mar. 16, 1916—S ELM AVE 137-6 E Gough E 27-6xS 52. Joost Bros to Katherine Black and O Giannini & Son .....

Mar. 15, 1916—NE CALIFORNIA & Van Ness Ave N -42-2¼ E 137-6 S 4-8¼ W 37-6 S 137-6 W 100. Standard Portland Cement Corp, Santa Cruz Portland Cement Co to Peterson Rupp & Co, H C Pendleton, W Flordes, Bradbury Estate Invst Co, and Royal Investment Co.....

Mar. 10, 1916—S TURK 57-6 E Polk E 30xS 85. Rousseau & Rousseau to John M Boscus.....$500

Mar. 24, 1916—S PINE 68-9 E Sansome S 96xE 34-4½. N Clark & Sons, Frank Lobb, Chas King, Pacific Mfg Co, Malott & Peterson, H L Petersen, Edward L Soule, Golden Gate Iron Works and Chas S

Mar. 24, 1916—E TWELFTH AVE 75 S Balboa S 25xE 95. Wm A Hayes to Nellie R Eggers, R McLelland and J S McLelland .....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
640	Brodien	Rounds	1885
641	Cords	Cords	4500
642	O'Connor	O'Connor	3000
643	Labarissa	Owner	1600
644	Munroe	Pratt	1600
645	Manstrom	Hammarberg	1800
646	Reef	Collins	4000
647	Taylor	Clarke	1600
648	Hansen	Petersen	1800
661	Alameda Co	Zimmer	1241
662	Hewitt	Hewitt	600
663	Miller	Wallace	400
664	Hudson	Hudson	1000
665	Reeves	Reeves	400
666	Champion	Whitford	2500
667	Rudolph	Allen	1200
668	Dolan	Dolan	7000
669	Nelson	Christiansen	350
670	Luedeking	Jesperson	1950
671	Monson	Monson	10000
672	MacGregor	MacGregor	3000
673	Same	Same	3250
674	Same	Same	3300
679	Clarke	Richmond	2400
680	Hollidge	Hollidge	2500
681	Norris	Norris	2000
682	Hashman	Hashman	1500
683	Mohrdick	Charleston	450
684	Armstrong	Conner	1000
686	Mattson	Mattson	1700
687	Smith	Anderson	400
688	Reed	Wilson	1800
694	Nunemacher	Owner	2000
695	Smith	Riddell	6000
696	Cohn	Larmer	3500
697	Same	Same	3500
698	Ellison	Muller	2500
699	Nunes	Nunes	2500
700	Pfrang	Pfrang	2500
701	Anderson	Anderson	1800
702	Woodward	McPhee	2500
703	Chinn	Baccus	1100
705	Neary	Neary	2500

DWELLING

(640) S FIFTY-FOURTH 680 E Park E 40xS 120, Oakland. All work for one-story 5-room dwelling.

Owner.....E. B. Brodien, 1005 53rd, Oakland.

Architect ...None.

Contractor..Frank E. Rounds, 820 56th, Oakland.

Filed Mar. 16, '16. Dated Mar. 11, '16.

Roof sheathed	¼
Enclosed and brown coated.....	¼
Completed and accepted.....	¼
Usual 35 days.....	¼

TOTAL COST, $1885

Bond, $942.50. Sureties, E. P. Burke and W. C. Leverich. Limit, 65 days after March 11. Forfeit, none. Plans and specifications filed.

RESIDENCE AND GARAGE

(641) SE OAKLAND AND JEROME Aves., Piedmont. Nine-room plaster exterior frame residence and garage.

Owner.....Alfred Cords, 318 1st Svgs. Bank Bldg., Oakland.

Architect ...M. I. Diggs, Syndicate Bldg., Oakland.

Contractor..Alfred Cords.

COST, $4500

DWELLING

(642) NE BROADWAY & TAFT AVE., Oakland. One and one-half-story 5-room dwelling.

Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.

Architect ...M. I. Diggs, Syndicate Bldg., Oakland.

Day's work. COST, $3000

DWELLING

(643) E VICENTE 143 S 58th, Oakland One-story 5-room dwelling.

Owner.....J. Lalvarissa, 5471 Claremont Ave., Oakland.

Architect ...None.

Day's work. COST, $1600

DWELLING

(644) NE THIRTY-FIRST 300 W 23rd Ave., Oakland. One-story 5-room dwelling.

Owner.....S. J. Munroe, 2210 E-31st, Oakland.

Architect ...None.

Contractor..Pratt & Tuttle, 3447 Elm, Oakland.

COST, $1600

DWELLING

(645) NO. 2204 E-TWENTY-FIRST, Oakland. One-story 5-room dwlg.

Owner.....C. W. Manstrom, Prem.

Architect ...None

Contractor..A. Hammarberg, 3758 Piedmont Ave., Oakland.

COST, $1800

DWELLING

(646) SE GLEN COURT & SEQUOIA Ave., Oakland. Two-story 7-room dwelling.

Owner.....Harry J. Reef, 675 53rd, Oakland.

Architect ...None.

Contractor..E. D. Collins, 825 57th, Okd.

COST, $4000

DWELLING

(647) W SEMINARY AVE 110 N Elizabeth, Oakland. One-story 5-room dwelling.

Owner.....Dr. Miles Taylor, Head Bldg., San Francisco.

Architect ...None.

Contractor..David Clarke, 2231 Seminary Ave., Oakland.

COST, $1600

DWELLING

(648) W HIGH 40 N Carrington, Oakland. One-story 5-room dwelling.

Owner.....T. Hansen, 4116 Penniman Ave., Oakland.

Architect ...None.

Contractor..J. Petersen, 3823 Agna Vista Ave., Oakland.

COST, $1800

VACUUM CLEANING

(661) FOOTHILL BOULEVARD near San Leandro. Vacuum cleaning for County Infirmary.

Owner.....Alameda County.

Architect ...Chas. P. Weeks, Mutual Bank Bldg., San Francisco

Contractor..E. L. B. Zimmer Vacuum Cleaning Co., 536 13th, Oakland.

COST, $1241

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GARAGE
(662) N STEARNS AVE 150 W 99th Ave., Oakland. One-story 3-room garage.
Owner.....Lesley M. Hewitt, 3115 Ellis, Oakland.
Architect ...None
Contractor..C. L. Hewitt, 3115 Ellis, Oakland.
COST, $600

ADDITION
(663) NO. 5934 WHITNEY, Oakland. Addition.
Owner.....Mr. Miller, Premises.
Architect ...None.
Contractor..Wallace Bros., 5917 Whitney, Oakland.
COST, $400

DWELLING
(664) S BROOKDALE AVE 70 W Persimons, Oakland. One-story 4-room dwelling.
Owner.....Geo. Hudson, 759 Brookdale Ave., Oakland.
Architect ...None.
Day's work. COST, $1000

REPAIRS
(665) NO. 1034 WOOD, Oakland. Fire repairs.
Owner.....R. E. Reeves, 3327 E-14th, Oakland.
Architect ...None.
Day's work. COST, $400

DWELLING
(666) W OPAL 300 N 41st, Oakland. One-story 6-room dwelling.
Owner.....Mrs. B. Champion, 468 Rich Oakland.
Architect ...None.
Contractor..W. T. Whitford, 421 42nd, Oakland.
COST, $2500

ADDITION
(667) NO. 554 E-FOURTEENTH, Oakland. Two-story addition to dwlg.
Owner.....A. A. Rudolph, Premises.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $1200

ALTERATIONS
(668) SE E-FOURTEENTH AND 21st Ave., Oakland. Alterations and additions to two-story dwelling (alter to apartments and build 2-story addition.
Owner.....P. A. Dolan, 2265 Lombard San Francisco.
Architect ...H. D. Mitchell, 628 Montgomery, San rancisco.
Day's work. COST, $7000

BROODER HOUSE ETC.
(669) PLOT 15-C MEEK SOLO TRACT, Eden Tp. All work for tank house, chicken house, brooder house, roofing hardware, wind mill, cement, gravel, pipes, cylinder, screen wire netting for brooder house.
Owner.....Anna Nelson, Oakland.
Architect ...None.
Contractor..Juel Christiansen, Hayward
Filed Mar. 21, '16. Dated Feb. 23, '16.
Completed ..... ½
30 days after..... ½
TOTAL COST, $350
Bond, none. Limit, 18 days after Mar. 7. Forfeit, none. Plans and specifications, none.

FRAME DWELLING
(670) W MARKET 80 S 40th, Oakland. All work for one-story 5-room frame dwelling.
Owner.....C. A. Luedeking, 308 Elwood Ave., Oakland.
Architect ...None.
Contractor..J. W. Jesperson and A. C. Dippo, 878 54th, Oakland.
Filed Mar. 21, '16. Dated Mar. 6, '16.
Frame up ..... ¼
Plastered ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $1950
Bond, none. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

APARTMENTS
(671) S FIFTEENTH 100 W Brush, Oakland. Three-story 20-room apartments.
OOwner.....O. and Chas. Monson.
Architect ...D. C. Coleman, Merchants National Bank Bldg., S. F.
Contractor..Monson Bros., 1907 Bryant, San Francisco.
COST, $10,000

DWELLING
(672) N HAMPEL 80 W Woodruff, Oakland. Two-story 6-room dwelling.
Owner.....C. M. MacGregor, 470 13th Oakland.
Architect ...None.
Day's work. COST, $3000

DWELLING
(673) SW BENTON & WOODRUFF, Oakland. Two-story 6-room dwlg.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $3250

DWELLING
(674) N HAMPEL 120 W Woodruff, Oakland. Two-story 7-room dwlg.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $3300

DWELLING
(679) S CORONADO AVE 125 W Desmond, Oakland. One-story 5-room dwelling.
Owner.....F. E. Clarke, Security Bank Bldg., Oakland.
Architect ...None.
Contractor..S. Richmond, 2101 Telegraph Ave., Oakland
COST, $2400

DWELLING
(680) E BROADWAY 290 S Manila Ave., Oakland. One and one-half-story 7-room dwelling.
Owner.....G. H. Hollidge, 5926 Taft Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(681) E BRYANT AVE 180 N Ada, Oakland. One-story 5-room dwelling
Owner.....Justus Norris, 2828 Richmond Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(682) S FULLINGTON 100 from Mayhell Ave., Oakland. One and one-half story 5-room dwelling.
Owner.....J. Hashman, 1309 52nd Ave., Oakland.
Architect ...None.
Day's work. COST, $1500

ALTERATIONS
(683) NO. 1492 TENTH AVE., Oakland Alterations.
Owner.....P. Mohrdick, Premises.
Architect ...None.
Contractor..C. E. Charleston, 5627 Genoa, Oakland.
COST, $450

GARAGE
(684) NE MONTE VISTA & OAKLAND Ave., Oakland. Garage.
Owner.....S. V. Armstrong, 250 Oakland Ave., Oakland.
Architect ...Julia Morgan, Merchants' Exchange Bldg., S. F.
Contractor..Conner & Conner, Cor. Berkeley Way and Shattuck Ave., Berkeley.
COST, $1000

ADDITION
(686) NO. 450 FIFTY-FIRST, Oakland One-story addition to dwelling (one story to two story).
Owner.....S. Mattson, Premises.
Architect ...None.
Contractor..W. Smith, Oakland.
COST, $1700

ALTERATIONS
(687) NO. 3501 PERALTA, Oakland. Alterations.
Owner.....S. M. Smith, Mills College, Oakland.
Architect ...None.
Contractor..G. N. Anderson, 512 Syndicate Bldg., Oakland.
COST, $100

DWELLING
(688) W BROWN AVE 255 N Hopkins, Oakland. One-story 5-room dwelling
Owner.....Reed & Wilson, 520 9th, Oakland
Architect ...None.
Day's work. COST, $1800

FRAME COTTAGE
(694) S OAKLAND AVE near Arbor Drive, Piedmont. Eight-room frame cottage.
Owner.....F. W. Nunemacher, 1118 Oakland Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

FRAME DWELLING
(695) LOT 24 BLK 3 A revised Map of Rock Ridge Park, Oakland. All work for two-story 7-room frame dwelling.
Owner.....Ralph E. Smith, 1625 Euclid, Berkeley.
Architect ...None.
Contractor..Riddell Bldg. Service Corporation, 2247 Telegraph Ave., Berkeley.
Filed Mar. 23, '16. Dated Mar. 16, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $6000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(696) E ELSIE AVE 130 N Chabot Road, Oakland. Two-story 7-room dwelling.
Owner.....Abe S. Cohn, Federal Bldg., Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $3500

DWELLING
(697) E ELSIE AVE 90 N Chabot Road, Oakland. Two-story 7-room dwelling.

Owner.....Abe S. Cohn, Federal Bldg., Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $3500

DWELLING
(698) N DOLORES 80 E 13th Ave., Oakland. One-story 6-room dwlg.
Owner.....Mr. Ellison, 2214 13th, Okd.
Architect ...None.
Contractor..F. A Muller, Syndicate Bldg., Oakland.
COST, $2500

DWELLING
(699) E CLAREMONT AVE opp. 60th, Oakland. Two-story 6-room dwlg.
Owner.....Geo. W. Nunes, 5430 Dover, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(700) E MILES AVE 80 S Forest, Oakland. One-story 5-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(701) E PATTERSON AVE 70 S Kansas, Oakland. One-story 5-room dwlg.
Owner.....Andrew Anderson, 521 53rd Oakland.
Architect ...None.
Day's work COST, $1800

ALTERATIONS
(702) NO. 531 THIRTEENTH, Oakland Alter store fronts, etc.
Owner.....F. J. Woodward, Oakland Bank of Savings Bldg., Oakland.
Architect ...None.
Contractor..A. J. McPhee, 2144 E-27th, Oakland.
COST, $2500

ALTERATIONS
(703) NO. 476 THIRTEENTH, Oakland Alterations.
Owner.....Chinn Beretta Co., Prem.
Architect ...None.
Contractor..W. J. Baccus, 565 16th, Oakland. COST, $1100

DWELLING
(705) E VIEW 400 N Mather, Oakland One-story 6-room dwelling.
Owner.....Wm. F. Neary, 1723 Telegraph Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
649	Sayne	Thaxter	400
650	Hunt	Texdahl	500
651	McKelvey	Engelsen	3300
652	Davis	Wells	——
685	Marrenner	Lewis	4000
689	Webber	Montgomery	450
690	Benz	Benz	1000
691	Werner	Werner	1500
692	Gilseman	Dildine	3000
693	Hunter	Hunter	2300
704	Gastman	Gastman	3000

ALTERATIONS
(649) NO. 2845 PRINCE, Berkeley. Alterations.
Owner.....J. H. Sayne, Premises.
Architect ...None.
Contractor..F. W. Thaxter, 2454 Ashby Ave., Berkeley.
COST, $400

GARAGE
(650) NO. 26 TUNNEL ROAD, Berkeley Garage.
Owner.....J. E. Hunt, Premises.
Architect ...None.
Contractor..C. Texdahl, 3035 Harper, Barkeley.
COST, $500

FRAME DWELLING
(651) E SAN BENITA ROAD 160 S Marin Ave being Ptn Lot 10 Blk 7, Map Berkeley Heights, Berkeley. All work for six-room frame dwelling.
Owner.....Chas. A. McKelvey, 2434 Milvia, Berkeley.
Architect ...W. L. Brodrick, 1201 Colusa Ave., Berkeley.
Contractor..Chris Engelsen, 562 39th,
Filed Mar. 20, '16. Dated Mar. 17, '16.
Frame and chimneys up..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $3300
Bond, $1650. Sureties, Chris. and Kalla Engelsen. Limit, 75 days after March 17. Forfeit, $1. Plans and specifications filed.

FRAME DWELLING
(652) FRONT 92 LOT 1 BLK 4, Thousand Oaks Tract, Berkeley. All work for two-story frame dwelling.
Owner.....C. A. Davis, 759 60th, Okd.
Architect ...None.
Contractor..W. B. Wells 755 60th, Okd.
Filed Mar. 16, '16. Dated ——.
No agreement filed.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME DWELLING
685) LOT 9 BLK 5, Berkeley Square, Berkeley. All work for one and one-half-story frame dwelling.
Owner.....R. H. T. Marrenner.
Architect ...W. H. Ratcliff Jr., 1st National Bank Bldg., Berkeley
Contractor..L. S. Lewis, 2423 Woolsey, Berkeley.
Filed Mar. 22, '16. Dated Mar. 21, '16.
Roof boarded ..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $4000
Bond, $2000. Surety, Hartford Accident & Indemnity Co. Limit, 80 days. Forfeit, none. Plans and specifications filed.

GARAGE
(689) NO 2925 RUSSELL, Berkeley. Garage.
Owner.....Mrs Webber, Premises.
Architect ...None
Contractor..W. S. Montgomery, 2321 Ward, Berkeley.
COST, $450

DWELLING
(690) N WOOLSEY 150 W California, Berkeley. One-story 3-room dwlg.
Owner.....Valentine Benz, 3320 16th, San Francisco.
Architect ...None.
Day's work. COST, $1000

DWELLING
(691) W BROWNING 100 S Channing Way, Berkeley. One-story 5-room dwelling.
Owner.....Chas. A. Werner, 2416 Berkeley.
Architect ...None.
Day's work. COST, $

DWELLING
(692) E MAGNOLIA 180 N Wet Berkeley. Two-story 7-room dw
Owner.....Mrs. E. Gilsenan, Webster, Berkeley.
Architect ...None.
Contractor..V. Dildine, 6243 Co Ave., Oakland.
COST, $

DWELLING
(693) N WOOLSEY 120 E Dana, keley. One-story 5-room dwell
Owner.....S. M. Hunter, 3117 tuck Ave., Berkeley.
Architect ...None.
Day's work. COST, $

DWELLING
(704) W CONTRA COSTA AVE 1 Indian Rock Path, Berkeley. story 7-room dwelling.
Owner.....H. H. Gastman, 1271 E Ave., Berkeley.
Architect ...Olin S. Grove, 2911 graph Ave., Oakland.
Day's work. COST, $

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor
653	City of Alameda	Hadley
654	Same	Schrader
655	Same	Mortensen
656	Same	Greenback
657	Same	Paraffine Paint
658	Same	Catton
659	Same	Ne Page
660	Same	Hurley
675	McCall	Schmidt
676	Bertero	Bertero
677	Pucci	Wetzel
678	Cole	Kopf

EXCAVATING, ETC.
(653) IN CITY OF ALAMEDA. E vating, grading, brick and con addition to Washington School.
Owner.....City of Alameda.
Architect ...Henry H. Meyers, Bldg., San Francisco.
Contractor..Chas. B. Hadley, 180 sie, San Francisco.
COST, $1

(654) STRUCTURAL AND MISC laneous iron work on above.
Contractor..Schrader Iron Works, Harrison, San Franci
COST, $

(655) CARPENTER AND MILL WO glass, stairs, tiling and marble on above.
Contractor..M. P. Mortensen, 180 Je San Francisco.
COST, $1

(656) PLASTERING, LATHING cementing on above.
Contractor..Greenback Plastering 45 Kearny, San Franci
COST, $

(657) FELT AND GRAVEL ROOF on above.
Contractor..Paraffine Paint Co., 40 San Francisco.
COST,

PLUMBING, DRAINS, GAS ıg and sheet metal work on e.
ıctor..T. R. Catton, 3007 Jackson, San Francisco.
COST, $3399

ELECTRIC WORK ON ABOVE.
ıctor..Ne Page - McKinney, 149 New Montgomery, S. F.
COST $2513

HEATING AND VENTILATING above.
actor..J. C. Hurley, 509 6th, S. F.
COST, $6246

RATIONS
NO. 1227 PARK AVE., Alameda.
erations.
r.....Mrs. O. McCall, Premises.
tect ...None.
actor..P. N. Schmidt, 1372 Versailles Ave., Alameda.
COST, $400

LLING
E VERSAILLES AVE AND CALın, Alameda. One-story five-room elling.
r.....L. Bertero, 2516 Bay Island Ave., Alameda.
itect ...None.
s work.
COST, $1250

TS
S TAYLOR AVE 300 W Webster, ameda. Two-story 10-room flats.
er.....Joe Pucci, Taylor nr Webster, Alameda.
itect ...None.
ractor..Wetzel & Jones, 1633 Josephine, Berkeley.
COST, $2500

ELLING
) NO. 3245 BAYO VISTA AVE., ameda. One-story 7-room dwlg.
ıer.....M. T. Cole, Syndicate Bldg., Oakland.
ıitect ...None.
tractor..B. F. Kopf, 1015 82nd Ave., Oakland.
COST, $3000

OTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

. 17, 1916—N SEVENTH 100 W ashington W 50xN 100, Oakland. atalie Kleeman as to improveıents on leased property.....

COMPLETION NOTICES.

ALAMEDA COUNTY.

CORDED AMOUNT
r. 11, 1916—LOT 72 Map Lawton Ave Tract, Okd. Thomas Lucas by A N Rowe to whom it may concern .....March 11, 1916
r. 11, 1916—LOT 16 BLK "A" Waterside Terrace Tract. Alameda. Mark T Cole to whom it may concern.....Mar. 10, 1916
ar. 11, 1916—LOT 59 4th Ave Terrace Ext, Okd. Mrs Anna H Coggins to Paul Woodburn..Mar. 8, 1916
ar. 13, 1916—S MILTON 188.9 E Market S 50xS 100, Okd. Sarah Bell to John Bernhardy.....Mar. 9, 1916
ar. 13, 1916—E GRANT 107.5 S Hearst Ave 37x100, Bkly. B F Butler to whom it may concern... .....March 13, 1916

Mar. 14, 1916—W PARK BLVD 150 N El Centro Ave 40x100, Oakland. Mabel Woodard to E W Woodard .....March 14, 1916
Mar. 14, 1916—NO 442 PACIFIC AVE. Ala. Emanuel Danton to F De Martini.....Mar. 13, 1916
Mar. 14, 1916—E JACKSON 211.1 N 14th N 42 E 80 S 20 E 70 S 22 W 150, Okd. Edgar and Mabel Francis Durnan to Sommarstrom & Hinkle .....March 14, 1916
Mar. 14, 1916—E BRUCE 33⅓ S Bancroft Way S 33⅓xE 80, Bkly. Carl Ericsson to whom it may concern .....March 14, 1916
Mar. 15, 1916—LOT 21 BLK "H" Map East Piedmont Heights, Oakland. Wickham Havens, Inc to C M MacGregor.....Mar. 13, 1916
Mar. 15, 1916—SW TELEGRAPH & Ashby Aves S 79.41 W 100 N 74.33 E 119.74, Bkly. J H Wright to J Henry Boehrer and Alfred Legault .....March 14, 1916
Mar. 16, 1916—LOT 16 BLK 5 Map Melrose Heights, Okd. Wm H Sims to whom it may concern..... .....March 16, 1916
Mar. 20, 1916—LOT 12 BLK "A" Map Piedmont Knoll, Okd. Eva L Gaylord to C M MacGregor..Mar. 13, 1916
Mar. 20, 1916—LOT 4 BLK 6 Map Thousand Oaks. Oakland Tp. Joseph Coward to whom it may concern.....Mar. 16, 1916
Mar. 22, 1916—PTN LOTS 3 AND 4 Map Sbdvn Plot 12, Watson Tract, Okd. Martha E Lodge to whom it may concern.....Mar. 21, 1916
Mar. 22, 1916—N ASHBY AVE 420 W California W 70xN 100, Bkly. William J Baker to whom it may concern.....Mar. 20, 1916
Mar. 22, 1916—LOTS 382, 383 & 384 Map E. B. and A. L. Stone Co's Lots Elmhurst, Okd. Joseph St. Mary to whom it may concern...Mar. 20, 1916
Mar. 22, 1916—W REGENT 425.01 S Webster S 45xW 132-6, Berkeley. Georgie T Thaxter per F W Thaxter to whom it may concern..... .....Feb. 21, 1916
Mar. 23, 1916—LOT 3 BLK 30 Map Melrose Heights, Okd. Mrs. Marrion Gaynor to whom it may concern... .....March 22, 1916
Mar. 24, 1916—LOT 2 BLK 6 Hotel Claremont Tract, Okd. M E Wickson to whom it may concern..... .....March. 22, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT
Mar. 13, 1916—NE COLLEGE AND Harwood Aves N 107.45 E 60.66 S 100 W 100, Okd. H C Brown vs A L Haley and Marian H Dunham..$70
Mar 14, 1916—W FILBERT 125 S Eighth S 43-8¾xW 125, Okd. H Peterson Co vs E Marshall and O M Bullock $60.30
Mar. 14, 1916—NE COLLEGE & HARwood Aves, fronting 100 on each Ave., Okd. F A Culin vs A L Haley, J F Woodward and Marion H Dunham $42.75
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Bay Electric Co vs Marion H Dunham, A L Haley and J F Woodward $40
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Marshall & Stearns Co, $560; Joseph A McGowan, $195 vs Mar on H Dunham & J F Woodward .....
Mar. 14, 1916—N COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. J T O'Brien vs S E Mathews & Son and Marion H Dunham $76.25
Mar. 14, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. C E Sisson vs Marion H Dunham and A L Haley....$233.90
Mar. 15, 1916—S "A" 50 E Third E 50 xS 100, Hayward. Nils Quist vs Herman A Thorndike.....$73.98
Mar. 15, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. Fred W McDonald vs Marion H Dunham.....$19.40
Mar. 16, 1916—LOT 8 BLK "K" Map Grand Avenue Heights-by-th-Park, Okd. A H Bar (Bar Mercantile Co) vs Estelle H and Leo L Nichols.$77.60
Mar. 16, 1916—LOT 7 BLK "K" Map Grand Ave Heights-by-the-Park, Okd. A H Bar (Bar Mercantile Co) vs Estelle H and Leo L Nichols.$65.50
Mar. 16, 1916—E GRAND AVE 350 N Weldon Ave being Lot 8 Blk "K" Map Grand Ave Heights-by-the-Park, Okd. A F Virgil vs Estelle H and Leo L Nichols.....$50
Mar. 17, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. Spott Bros vs E Marshall and O M Bullock..$102
Mar. 17, 1916—E GRAND AVE 350 N Weldon Ave N 50xE 128, Oakland. Hogan Lumber Co vs Estelle H and Leo L Nichols.....$413.69
Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Joost Bros vs L G Auzerais and F A Wilkie $74.52
Mar. 18, 1916—LOT 7 BLK "K" Map Okd. J A McKeever vs Leo L and Grand Ave Heights-by-the-Parks, Estelle H Nichols.....$20
Mar. 18, 1916—LOT 8 BLK "K" Map Grand Ave Heights-by-the-Parks, Okd. J A McKeever vs Leo L and Estelle H Nichols.....$137
Mar. 22, 1916—**125 E-EIGHTH S 43-8-¾ W 125**, Okd. H C Brown vs O M Bullock, E Marshall and Beth Eden Baptist Church $68
Mar. 22, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. Sunset Lumber Co vs O M Bullock and E and Ellen Marshall $695.25
Mar. 23, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. J C Talbott vs O M Bullock, Ellen Marshall, I N Moon, Beth Eden Baptist Church, J P Silva and O J Agrella.....$100.35
Mar. 23, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. California Door Co vs O M Bullock and E Marshall $281.71
Mar. 23, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. Pacific Fuel & Building Material Co vs O M Bullock, Nelson Henderson and E Marshall $42.05

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Mar. 21, 1916—SW TWELFTH AND Broadway W 100xS 100, Okd. Levy Estate Co as to improvements on leased property .....

ASSIGNMENT OF BUILDING CONTRACT.

ALAMEDA COUNTY.

Mar. 22, 1916—E WASHINGTON 50 N 5th E 75xN 50, Oakland. Two-story and basement brick market. Owner,

A. Paladini, contractor, F. J. Edwards assigned to M. V. Brady. Contract price, $18,750.

BUILDING CONTRACTS

SANTA CLARA COUNTY.

RESIDENCE
CAMPUS OF STANFORD UNIVERSITY, Palo Alto. All work for two-story residence.
Owner.....Board of Trustees of Leland Stanford Jr., University.
Architect...Plans drawn by Contractor.
Contractor..E. A. Hettinger, Palo Alto.
Filed Mar. 24, '16. Dated Mar. 21, '16.
On 1st and 15th of each month 75%
Usual 35 days.....Final payment
TOTAL COST, $5442
Bond, $2721. Sureties, J. H. Pierce and R. T. Pierce. Limit, 100 days. Forfeit, $50 per day. Plans and specifications filed.

NURSES' QUARTERS
NEAR PALO ALTO. All work for Nurses' quarters and girls' housekeeping place.
Owner.....Elsie A. Drexler, Kohl Bldg., San Francisco.
Architect...Houghton Sawyer, Shreve Bldg., San Francisco.
Contractor..Peterson-James Co., 710 Larkin, San Francisco.
Filed Mar. 21, '16. Dated Mar. 7, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1694.78
Bond, $850. Surety, Guardian Casualty & Guaranty Co. Limit, none. Forfeit, $5 per day. Plans and specifications filed.

DWELLING
MARKET AND LINCOLN STS, Town of Santa Clara. All work for one-story five-room dwelling.
Owner.....Charles Pyle, 1044 Madison St., Santa Clara.
Architect...C. W. Koenig.
Contractor..T. Charles Hastings, 31 S-Morrison St., San Jose.
Filed Mar. 22, '16. Dated Mar. 17, '16.
Frame up, rafters set.....$483.75
1st coat plaster on..... 483.75
Building completed..... 483.75
Usual 35 days..... 483.75
TOTAL COST, $1935.00
Bond, none. Limit, 60 days. Forfeit, $2 per day. Plans on filed.

FRAME DWELLING, ETC.
SE ALAMEDA ROAD & HEDDING St., near San Jose. All work for 2-story frame dwelling and garage.
Owner.....Frederick W. Gross, 1441 The Alameda, San Jose.
Architect...William E. Higgins, Rea Bldg., San Jose.
Contractor..Edgar A. Bevens, 130 Coe Ave., San Jose.
Filed Mar. 23, '16. Dated Mar. 23, '16.
Frame up $1454
1st coat plaster on inside & out 1454
Job completed 1454
Usual 35 days..... 1454
TOTAL COST, $5816
Bond, $2908. Sureties, James H. Pierce and L. D. Bohnett. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOTS 15 AND 16 in Sbdvn of Peter Swall Tet, being part of Sec 19 T 6 South Range 2 West M. D. M., Map recorded in Santa Clara County Recorder's Office on March 15, 1904, in Volumne "J" of Maps, Page 17, Los Altos. All work for two-story frame residence.
Owner.....Edward J. McCutcheon, Merchants' Exchange Bldg., San Francisco.
Architect...John White, Lick Bldg., San Francisco.
Contractor..Grace & Bernieri, Claus Spreckels Bldg., S. F.
Filed Mar. 18, '16. Dated Mar. 15, '16.
Completed and accepted.....$4721.25
Usual 35 days..... 1573.75
TOTAL COST, $6295.00
Bond, $3147.50. Surety, Massachusetts Bonding & Insurance Co. Limit, 90 days. Forfeit, $10 per day. Plans and specifications filed.

FRAME DWELLING
NO. 780 S-SIXTH, bet. Margaret and Virginia, San Jose. All work for one story frame dwelling.
Owner.....W. J. Telfer and wife, 751 S-Sixth St., San Jose.
Architect...W. J. Telfer.
Contractor..R. C. Herschbach, 320 W-St. James St., San Jose.
Filed Mar. 17, '16. Dated Mar. 17, '16.
Frame and rafters up.....$422.62
Brown plaster inside and out. 422.62
Building accepted..... 422.62
30 days after..... 422.62
TOTAL COST, $1690.50
Bond, none. Limit, 90 days from date. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Mar. 22, 1916—MARTHA, bet. Ninth and Tenth Sts., San Jose. Joseph A Lowe to whom it may concern... .....Mar. 17, 1916
Mar. 22, 1916—LOT 18 Map of V. A Hancock Sbdvn No. 1, San Jose. Anna L Schnabel to whom it may concern.....Mar. 22, 1916
Mar. 22, 1916—LOT 19 Map of V. A. Hancock Sbdvn No. 1, San Jose. Anna L Schnabel to whom it may concern.....Mar. 22, 1916
Mar. 22, 1916—LOT 26 of O. E. Early Sbdvn, San Jose. J A Weldon to whom it may concern..Mar. 10, 1916
Mar. 17, 1916—BDED ON S by Taylor, E by Coyote Creek, N and W by lands now or formerly of Booth's. L P Cooper (of Orlando Meat Co.) to Frank L Hoyt. Refrigerator Bldg. .....Mar 1, 1916
Mar. 18, 1916—NW KINGSLEY AVE bet Cooper and Webster, Palo Alto. J A Broadwood to whom it may concern .....Mar. 15, 1916
Mar. 20, 1916—GLEN EYRIE AVE a little W of Lincoln Ave, in the Willows, San Jose. Chester W Moore to J J Hanson.....Mar. 18, 1916
Mar. 20, 1916—N W-SAN ANTONIO, bet First and Market, San Jose. Charles J Kuhn to P E Peterson... .....March 17 1916

LIENS FILED.

SANTA CLARA COUNTY.

RECORDED AMOUNT
Mar. 20, 1916—LOTS 10 AND 11 BLK 68, Palo Alto. Inlaid Floor Co vs J M Moore.....$109.95

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

RESIDENCE
WILSON AVE., bet. Barrett and Roosevelt Ave., Richmond. Residence.
Owner.....J. A. Anderson, Richmond.
Architect...None.
Day's work. COST, $1300

RESIDENCE
BISSEL AVE., bet. 33rd and 34th Sts., Richmond. Residence.
Owner.....J. F. Hamlin, Richmond.
Architect...None.
Day's work. COST, $1200

FRAME DWELLING
EIGHTH AND LINCOLN, Richmond. One-story frame dwelling.
Owner.....R. Crothman, 940 7th St., Richmond.
Architect...None.
Day's work. COST, $1200

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Mar. 17, 1916—KENTFIELD, Marin Co. William Kent to Fred H Field .....March 15, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING
NO. 1727 WHITE AVE., Fresno. All work for dwelling.
Owner.....John Dechant, Premises.
Architect...None.
Day's work. COST, $1500

DWELLING
NO. 2131 BELMONT, Fresno. Dwelling.
Owner.....A. B. Good, 2069 Belmont St., Fresno.
Architect...None.
Day's work. COST, $1500

BRICK RESIDENCE
LOTS 1 AND 2 BLK 3, Forthcamp Addition No. 2, Fresno. All work for two-story brick residence.
Owner.....Ralph W. Woodward, J St. Cor. Kern St., Fresno.
Architect...E. Mathewson 206 Forsyth Bldg., Fresno.
Contractor..S. S. Holden, 1413 Lucerne Lane, Fresno.
Filed Mar. 18, '16. Dated Mar. 18, '16.
1st floor joists in place.....$925
Enclosed 925
On completion 925
Usual 35 days..... 943
TOTAL COST, $3718
Bond, $2000. Sureties, S. L. Wiley and A. M. Loper. Limit, 70 working days. Forfeit, $5. Plans and specifications filed.

BUILDING CONTRACTS

SACRAMENTO COUNTY.

RESIDENCE
URBAN COURT near Y ST., on Lot 51 Urban Court Tract, Sacramento. All work for one-story 6-room residence.
Owner.....P. F. Reed, 2613 28th St., Sacramento.
Architect...None.
Day's work. COST, $2500

FRAME RESIDENCE
NO. 2416 U ST., (rear) on W ½ Lot 3 Blk U. V. 24th and 25th Sts., Sacramento. One-story six-room frame residence.
Owner.....I. Griemert, 2418 U St., Sacramento.
Architect ...None.
Contractor..W. P. Cippa, 314 21st St., Sacramento.
COST, $2500

COTTAGES
TOWN OF RYDE, Sacramento Co. Two cottages and one bath house.
Owner.....Libby, McNeill & Libby, 31st St., Cor. P St., Sacramento.
Architect ...None.
Contractor..S. H. Wurtsbaugh.
Filed Mar. 21, '16. Dated Mar. 14, '16.
COST, $1013

BRICK ADDITION
NO. 228 P ST., on 40 feet of N ½ Lot 4 Blk P, Q, 2nd and 3rd Sts., Sacramento. Brick addition to grocery store building.
Owner.....L. Biancalana, 4603 J St., Sacramento.
Architect ...None.
Contractor..A. P. Bertollanci, 1909 S St., Sacramento.
COST, $300

REPAIRS
NO. 1308 K ST., on W ½ Lot 2 Blk K, L, 13th and 14th Sts., Sacramento. General repairs to public brick garage.
Owner.....Chauncy Dunn, M St., bet. 22nd and 23rd Sts., Sacramento.
Architect ...None.
Day's work. COST, $200

FRAME RESIDENCE
MAPLE AVE, Lot 14 and N ½ Lot 15, Clairmont Tract, Sacramento. Two-story 7-room frame residence.
Owner.....George Burnett, 731 P St., Sacramento.
Architect ...None.
Contractor..W. R. Saunders, 2810 I St., Sacramento.
COST, $4850

FRAME RESIDENCE
NO. 3112 TWENTY-SECOND ST., Lot 46, West Curtis Oak, Sacramento. Two-story 7-room frame residence.
Owner.....W. F. Sloucum, 2306 L St., Sacramento.
Architect ...None.
Contractor..Corum & White, 2523 1st Ave., Sacramento.
COST, $3250

FRAME RESIDENCE
NO. 3100 T ST., on Lot 1 T Street Add'n., Sacramento. One-story 6-room frame residence.
Owner.....Mrs. M. Horner, 1626 I St., Sacramento.
Architect ...None.
Contractor..W. R. Saunder, 2810 I St., Sacramento.
COST, $2350

REMODEL RESIDENCE
NO. 2601 FIRST AVE ,Lot 22 Curtis Oaks, Sacramento. Remodel residence
Owner.....J. C. Carly Co., 823 J St., Sacramento.
Architect ...None.
Contractor..Corum & White, 2523 1st Ave., Sacramento.
COST, $300

FRAME DWELLING
NO. 2416 NINETEENTH ST., on Lot 6297, Mission Trecho, Sacramento. One-story 4-rooms and bath frame dwelling.
Owner.....M. A. Valine, 2417 15th St., Sacramento.
Architect ...None.
Contractor..C. Valine, 2417 15th St., Sacramento.

NO. 414 J ST., on E 20 feet Lot 2 J, K, 4th and 5th Sts., Sacramento. Remove wooden structure from rear of building.
Owner.....E. S. Brown et al, 100 J St., Sacramento.
Architect ...None.
Contractor..G. E. Hook, 718 18th St., Sacramento.
COST, $450

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
(Correction in Location)
Mar. 16, 1916—LOTS 12 AND 13 BLK 1, bounded by Blake Ave, Upper Stockton Road, Vine Street and Vina Vista Ave part of NE ½ of Sec 20 and NW ¼ Sec 21 T 8 R 5, Sacramento. James Cunningham vs C D Patterson.....$32
Mar. 20, 1916—N ½ LOT 5 X, Y, 8th and 9th Sts., Sacramento. P J O'Brien vs W H Vogt.....$112

NOTICE OF NON-RESPONSIBILITY.

SACRAMENTO COUNTY.

Mar. 17, 1916—LOT 5 Dye Chinatown Grove, Sacramento. Amy Brown, Sperry W, Milo and Corodon Dye as to improvements on leased property .....

AFTER-THE-WAR OPPORTUNITIES.

LONDON, England.—Manufacturers in Europe already look forward to the immediate and urgent need for a large amount of reconstruction work that will arise at the close of the present conflict in those regions where war's ruthlessness has laid low towns and industrial plants and destroyed bridges, railroads, and equipment of every kind. It is certain that the desire will be to rehabilitate devastated areas as soon as possible, and many British, French, and Belgian firms are already making careful plans for the future, organizing their forces and gathering information about probable needs, in order that no time may be lost in taking advantage of the trade opportunities that are sure to exist then.

The extent of these opportunities will be so great that European manufacturers will be unable to take care of them all. It is therefore important that American firms should begin their preparations early and take the necessary measures to handle the trade that will be offered to the United States. Many competent observers in Europe believe that the war will end, when it does end with great abruptness. The result will be that, practically without warning, the vast amount of industrial activity now directed to the preparation of war supplies will suddenly stop and a very embarassing period of readjustment follow. Difficulty will almost surely be encountered in the reorganization of labor and in the change to new forms of manufacture. Hundreds of plants will be affected, and time will be required in these industries for rearrangements before the necessary work of replacing losses by war destruction can begin.

IRRIGATION PIPE FACTORY.

CORLAND.—The Water Users' Association has received its first carload of cement to be sold to the settlers at cost. The water users have organized a new industry, and will manufacture irrigation pipe at cost for the settlers. It is estimated this will bring the cost down to where settlers can all afford it. They will manufacture 12, 18 and 24 inch pipe. The plant will be located at the government ditch.

PASSES TEST FOR ENGINEER'S BERTH.

LOS ANGELES, Cal.—C. H. McGwire, acting assistant chief engineer of the board of public utilities, passed the civil service examination for permanent appointment to that position with the highest percentage.

The appointment of McGwire to the position regularly is expected to result from the test. W. A. Anderson, assistant to McGwire, was second in the examination. He will be given regular appointment as second assistant.

STUDY OF RAIL JOINTS AND BONDS ON ELECTRIC ROADS.

"Modern practice in the construction and maintenance of rail joints and bonds in electric railways" is the title of Technologic Paper No. 62 of the Bureau of Standards. The paper is largely a compilation of information in the nature of data and opinions submitted by 42 electric railway companies which answered inquiries sent out by the bureau. Analysis of the data shows that soldered bonds have been demonstrated to be unsuccessful and are now practically obsolete while all other types of standard bonds are capable of giving good results, but only when carefully installed.

Loose rail joints are shown to be the most prevalent cause of bond failures, and as a result there appears to be a marked tendency toward the adoption of improved methods and materials in their construction. The adoption of various types of welded joints to take the place of the common bolted joints appears to be in progress in most of the larger cities.

The whole problem of track bonding is shown to be in a state of evolution, owing to new inventions and recent improvements in methods of construction and, as a result, complete standardization of these practices can not be expected for some time to come.

STREET FLUSHER ACCEPTED.

The City Commission of Sacramento accepted the bid of the E. R. Bacon Company of San Francisco for a motor street flusher. The machine will cost $5,146.51 and the bid carries with it an agreement to keep the machine in repair for one year free of all charges, besides the regular factory guarantee

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9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
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BUILDERS' EXCHANGE OF SACRAMENTO ELECTS DIRECTORS.

The following Directors of the Builders' Exchange of Sacramento were recently elected:

F. E. Conner, W. E. J. Baughman, Wm. C. Keating, W. B. Scollan, H. Dixon, J. Latorrette, E. S. Warner, L. E. Hite, R. O. Kimbrough, E. W. Book and A. W. Norris There were 29 candidates.

BIDS FOR ELECTRIC ELEVATOR AND DUMB WAITER OPENED.

(By Special Wire.)

SACRAMENTO, Cal., Mar. 28.— Burdett-Rowntree Mfg. Co., of San Francisco, submitted the only bid for an electric elevator and dumb waiter for Mendocino State Hospital at Talmage for $6800. This bid ran over the appropriation by $100. Same was referred to the State Architect.

WORKS BOARD RECOMMENDS RAZING OF BUILDINGS.

The Board of Public Works recommends the demolition of the two-story frame building at No. 3222 Seventeenth street, as the structure is maintained contrary to the State Lodging and Tenement House Laws. Stores and apartments occupy the first floor while the upper floor is given over to lodgings of twenty rooms. As the cost of reconstruction would be impracticable the board recommends that the structure be torn down. Similar action was taken on buildings at No. 933 Folsom street, 916 Michigan and 3172 to 3178 Sixteenth street.

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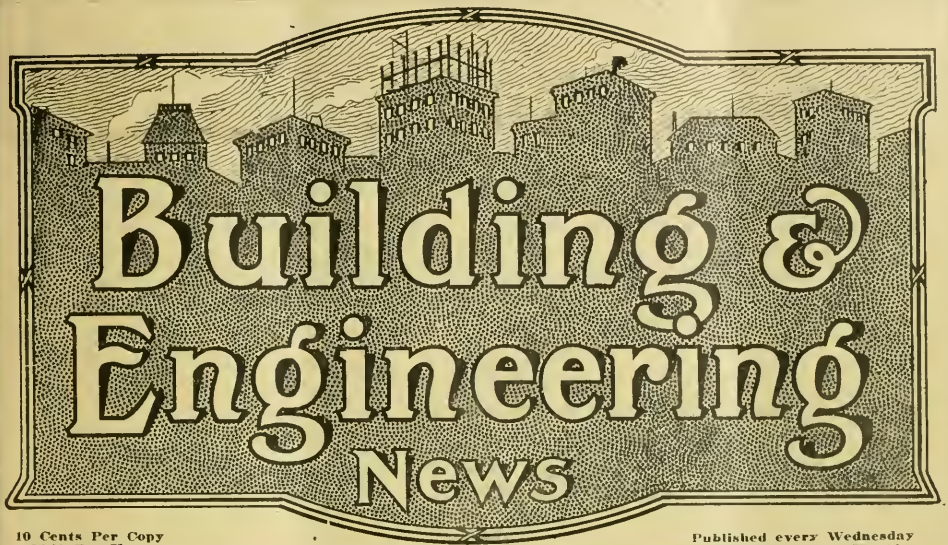
CONTRACTOR'S BOND.

Mar. 7, 1916—LOT 13 BLK "B" Elmwood Park, Bkly. Grace Everett Barnard, owner; Enoch Tranmal, contractor; New Amsterdam Casualty Co., surety. Bond, $3950.



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Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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SAFETY FIRST EXPOSITION.

WASHINGTON, D. C.—The Safety First Exposition, which was held in Washington recently and which depicted what the Federal Government is doing in the saving of life and property, may soon be brought to the doorsteps of every citizen in the United States.

The exposition was of such far-reaching educational value and created so much public interest that Secretary of the Interior Franklin K. Lane conceived the idea that the rest of the county ought, if possible, to be given the opportunity of seeing it. He accordingly wrote a letter to Daniel Willard, President of the Baltimore and Ohio Railroad, requesting the free use of a complete train for that purpose. President Willard responded immediately and offered to furnish an all-steel train of any necessary number of cars to transport the exhibits. The railroad also agreed to haul this train free of charge over the entire length of its line, stopping a sufficient length of time in each city or town to enable the people to inspect thoroughly the various exhibits.

It has been tentatively agreed that this train will be in Washington by May 1, and that it will be equipped as rapidly as possible and sent on its way. An itinerary will be arranged without delay. It is the plan of Secretary Lane that upon the completion of this itinerary the other prominent railroads of the country will be asked to extend similar favors over their lines and in this way he hopes that everyone in the country sufficiently interested will be able to see the exhibits.

The exposition held in Washington originated with the Bureau of Mines and through the encouragement of Secretary Lane spread to all the other departments until twenty-seven Federal bureaus were represented, as well as the American Red Cross and the police department of the District of Columbia.

"I am of the opinion that such a moving exposition will be of great educational advantage to the country," said Secretary Lane. "The exposition as I saw it was a revelation as to the extent of the Federal Government's activities along the lines of life saving and property saving. That it created great popular interest was evidenced by the fact that in the very busy city of Washington, having manifold other interests, the exposition attracted more than 35,000 persons during the week.

"Best of all, this moving exposition will give the people of the interior towns and cities an opportunity to see and understand what the Federal Government is doing in places remote. For instance, the work of the Public Health Service, Treasury Department, in guarding the gateways of the Republic against epidemics of diseases sent us from foreign shores and the stamping out of these diseases on the threshold of the country; the work of the Coast Guard Service, Treasury Department, in saving life at sea, making the ocean lines safe for travel; the Navigation Bureau, Commerce Department, with its extensive system of wireless which has already saved thousands of lives on shipwrecked vessels; the Forest Service's plan, Department of Agriculture, of fighting forest fires and preserving millions of dollars of natural resources to the nation; the methods used by the Bureau of Mines, Interior Department, in rescuing entombed miners from terrible death; and the safety methods of the Interstate Commerce Commission which have so signally reduced the deaths among trainmen.

"In addition there is the safety first work of the Army and Navy Departments, in sanitation and the stamping out of the typhoid fever in the Army and Navy.

"These are but a few of the many interesting activities of the Federal Government that the people will be privileged to see and learn about. Altogether it will be a rare opportunity for the average citizen of the United States and will give him a better and a clearer idea of what a great and humanitarian country he lives in."

LESS THAN 30,000 ACRES OF NATIONAL FOREST BURNED IN 1915.

WASHINGTON, D. C.—Forest fires burned over not quite 300,000 acres of National Forest land in 1915, according to official reports just compiled, or less than two acres per thousand. Out of a total of 6,324 fires, 346, or 5½ per cent, did damage to the amount of $100 or more.

The timber loss was 156,000,000 board feet, valued at $190,000. Although the season was regarded as one of unusual exposure, owing to delayed fall rains, the loss was materially below the average of the last five years. Over 87 per cent of this loss occurred in the States of Oregon, Washington, and Idaho, while more than 72 per cent was in Oregon alone. Besides the timber loss, fires destroyed reproduction, or young tree growth, of an estimated value of $160,000, and $3,407 worth of forage. The loss per fire in 1915 was $60.41, which is $14.03 less than the five-year average, while the cost of fighting each fire was $20.83 less.

Lightning figures as the chief cause of forest fires in 1915, as it does in the average year. Twenty-eight and a half per cent of the fires were due to this cause. Campers caused 18 per cent, which is 2½ per cent higher than the average. Eleven per cent were caused by brush burning. Nearly 11 per cent were of incendiary origin. Railroads were responsible for nearly 9 per cent of the fires in 1915, as against 14½ per cent due to this cause in the average year. The causes of over 15 per cent were unknown. Lumbering operations caused less than 3 per cent.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

OAKLAND, CAL.—Apartment house, 4 story and base, brick and steel, $100,000. Architect, Alvin J. Stern, 306 14th street, Oakland. Owners, Coit Investment Co. Location, west Harrison north of 14th. Will contain a number of two, three and four room apartments with private baths and wall beds. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning system. Bath rooms tile. Marble and tile wainscot. Dumb waiters. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and construction to be carried on under the direction of F. Muller, Syndicate Bldg. Subfigures being taken by the architect.

OAKLAND, CAL.—Apartment house, 3 story and base, brick, $40,000. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest 22nd and Telegraph. Will contain two and three room apartments with wall beds and private baths. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat and oil burning plant. Hot water system. Bath rooms composition floor and tile wainscot. Marble and tile wainscot. Exterior faced with pressed brick. Plans are complete and figures will be called for in about a week.

OAKLAND, CAL.—Apartment house, 1 story and base, frame, $6,000. Architects, J. C. and M. L. Newsom, 1748 Broadway, Oakland. Owner, Charles Short. Location, 12th and Brush Sts. Will contain four small apartments. Interior finisih pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

REDDING, SHASTA CO., CAL.—Apartment house, 2 story and base, frame. Cost not stated. Architect, C. C. Dakin, First National Bank Bldg., Oakland. Owner, E. Reid. Location, corner of Butte and East streets. Will contain six apartments of two and three rooms. Interior finish pine and redwood. Some hardwood floors. Steam heat and a hot water system. Bath rooms composition floors. Exterior covered with cement plaster. Plans being prepared.

LOS ANGELES, CAL. — Apartment house, 6 story and base, reinforced concrete, $100,000. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, Dr. T. N. Jamieson. Location, Euclid avenue near Colorado, covering an area of 75 by 100 feet. Besides a large dining room, occupying the entire second floor, the building will contain two and three room apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and automatic elevators. Hot water supply. Bath rooms tile. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

LOS ANGELES, CAL. — Apartment house, 4 story and base, brick. Cost not stated. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. O. Head. Location, Hartford avenue between 7th and 8th, covering an area of 50 by 100 feet. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Automatic elevator. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

LOS ANGELES, CAL. — Apartment house, 6 story and base, brick, $250,000. Architect, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Owner, John E. Ransford. Contractor, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Contract price, $250,000.

LOS ANGELES, CAL. — Apartment house, 4 story and base, brick, $75,000. Architect, L. T. Mayo, Black Bldg., L. A. Owner, B. G. Adams. Contractor, L. T. Mayo, Black Bldg., L. A. Contract price, $75,000.

BONDS.

YUBA CITY, SUTTER CO., CAL.—More than 300 Sutter County taxpayers attended a mass meeting held here last week and voted unanimously to recommend to the Board of Supervisors the calling of a $300,000 bond election for the construction of a new $20,000 county hospital and four new bridges.

The proposal to call a second election for $230,000 bonds for county road work was voted down because those present believed that Sutter County could not afford to expend the funds necessary to complete a permanent system of roads throughout the county. The proposed amount was not believed sufficient.

The four bridges endorsed were the proposed Feather River bridge at Nicolaus, the Sacramento River bridge at Grimes, the proposed extension of the Long bridge over Butte Slough, and proposed Mawson bridge at West Butte.

SACRAMENTO, CAL.—Attorney General U. S. Webb has informed the State Board of Control that it cannot invest State money in the purchase of sewer district bonds, proposed by Willows, Glenn County. Webb states the Board may purchase municipal bonds and district school bonds, but the sewer district bonds are not included in the classes of bonds enumerated in the law.

MODESTO, STANISLAUS CO., CAL.—Practically $1,500,000 will be required to construct the system of county highways as outlined by the Highway Advisory Committee in its report to the County Supervisors. The report embraces the paving of 158.50 miles of the main highways of the county, providing a system extending to all the principal points in the county. The paving work proposed is to be identical to that of the State Highway, except in width. The committee advises a width of 16 feet for all the roadways, except those portions east of Waterford and north of Oakdale.

The members of the advisory committee are H. S. Crane, Turlock; G. J. Bentley, Oakdale; H. H. Clark, Modesto; H. C. Tucker, Crows Landing; and H. R. Hobart, Riverbank.

OROVILLE, BUTTE CO., CAL.—The Chamber of Commerce has placed itself on record as being in favor of the proposed $15,000,000 State highway bond issue, and has passed resolutions endorsing the same.

FORTUNA, HUMBOLDT CO., CAL.—An election will be held on April 7th to decide the selection of a site for the proposed new high school building to be erected here, and for which bonds of $25,000 have been voted.

MODESTO, STANISLAUS CO., CAL.—Sites have been selected for the proposed new school buildings to be erected under a future bond issue.

SANTA ANA, ORANGE CO., CAL.—The Trustees of the Placentia School District have called an election for April 22nd to decide the question of issuing bonds of $30,000 for a new school building. It is proposed to erect a structure of six rooms.

ROSS, MARIN CO., CAL.—The Town of Ross is planning a bond election of $18,000 for street improvements.

SACRAMENTO, CAL.—Bids for Capitol Extension bonds are being taken by City Treasurer Biewener in his office at the Capital National Bank. The entire $700,000 issue will not be advertised, as $17,500 of the bonds have matured and must be provided for in the 1917 budget.

AUBURN, PLACER CO., CAL.—Word has been received by City Attorney Fred P. Tuttle, Jr., to the effect that the $20,000 bond issue purchased by the Blythe-Witter Company of San Francisco has been aproved by bond attorneys, and that the money from the purchase of the bonds will be paid in to the City Treasurer at once. The sale will finance the construction of a new septic tank system of sewage disposal, the purchase of fire trucks and the installation of a fire alarm system.

SANTA ANA, ORANGE CO., CAL.—An election has been called for April 18th to vote bonds of $10,000 for the erection of a new high school for the Santa Ana High School District.

SANTA ANA, ORANGE CO., CAL.—On receiving a report from the County Highway Commission of roads that might be improved under a bond issue of $365,000 and of roads that might be improved under a bond issue of $757,000, the Associated Chambers of Commerce gave its endorsement to the $757,000 proposal and asked the Board of Supervisors to take steps for a bond issue to carry out that recommendation.

CALEXICO, IMPERIAL CO., CAL.—To negotiate with the Southern Pacific for construction of a railroad on the

Volcano Lake Levee and to push plans for work on the Alamo channel. Walter O. Hamilton, president of the Imperial Valley Irrigation District, and C. R. Rockwood, chief engineer of the district, are in San Francisco to place under way these important improvements for protection work.

Negotiations with the Southern Pacific will be to determine the proper means of expending $80,000 which has been laid aside for use on the Volcano Lake railroad, which will operate on the top of that levee.

For the Alamo Channel $60,000 has been estimated as the cost for the construction of a controlling gate.

CHINO, SAN BERNARDINO CO., CAL.—The $128,000 bond election held here recently carried. The issue provides for $72,000 for paving of certain streets, included in which are Chino avenue from the east to the west city limits, Riverside Drive and ten blocks on D street, three blocks on Sixth street, and two blocks on Fifth street; also $55,000 for sewer construction.

LONG BEACH, LOS ANGELES CO., CAL.—An election will be held April 18th for voting bonds in the sum of $360,000 for raising funds to purchase sites for, and erect, two intermediate schools and equip same, and enlarge the high school and several grammar school buildings.

BARSTOW, SAN BERNARDINO CO., CAL.—A special election will be held April 21st in the Barstow Union High School District to vote bonds in the sum of $30,000 for purchasing sites and for erecting and equipping a school building.

SANTA ANA, ORANGE CO., CAL.—An election will be held April 18th for the purpose of voting bonds in the sum of $100,000 to build a grammar school on West Fifth street to cost $40,000 and a high school and community auditorium, $60,000.

BRIDGES, DAMS AND HARBOR WORK

SAN FRANCISCO—Furnishing piles. Cost not stated. Engineer, State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be received April 13th at 11 a. m. for furnishing Douglass fir piles for use on the San Francisco waterfront. The contract is to run for from one to three years.

CHURCHES

SELMA, FRESNO CO., CAL.—Church, 1 story and base, brick, $15,000. Architect, Robert H. Orr, Van Nuys Bldg., L. A. Owners, First Christian Church. Designed with both inside and open air pulpit, main auditorium, Sunday school rooms and pastor's study. Interior finish pine and ornamental lath. Central heating system. Exterior covered with cement plaster. Plans complete and figures to be called for in ten days.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Factory and power house, 2, 3 story and 1, 1 story, Class A and Class C construction. Cost not stated. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, Ghirardelli Co. Location, North Point St. One of the three-story structures will be used for an office building, the other for a factory and the one-story building for a power house. Bids have been taken and are now under advisement in the office of the architect.

SAN FRANCISCO—Warehouse, 5 or 6 story and base, reinforced concrete, $250,000. Engineers, MacDonald & Kahn, Rialto Bldg., S. F. Owners, Zellerbach Paper Co. Location, Montgomery and Francisco, covering an area of 137 by 298 feet. Construction fireproof. Interior finish pine. Elevators and conveyors, automatic sprinkler system. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepare.

SAN FRANCISCO—Factory, 3 story, frame and corrugated iron, $10,000. Architect's name not given. Owners, Rudgear-Merle Co., 198 Bay street, S. F. Location, northeast corner of Bay and Powell streets. Will cover a large area. Interior rough. Concrete and pine floors. Special machinery. Automatic sprinklers. Exterior shiplap and corrugated iron. Plans complete and figures being taken by Mr. Stienberg, 198 Bay street.

OAKLAND, CAL.—Factory, 3 story and base, reinforced concrete. Cost not stated. Architect, A. W. Smith, 1010 Broadway, Oakland. Owner, E. R. Tutt, leased to Western Casket Co. Location, Tenth and Harrison streets, covering an area of 100 by 160 feet. Interior finish pine. Concrete and pine floors. Metal window sash and frames and fireproof doors. Elevator service. Special machinery. Exterior faced with cement plaster. Plans being prepared.

LOS ANGELES, CAL.—Factory, 1 and 2 story and base. Class C construction. Cost not stated. Architect, J. M. Cooper, 800 McGarry street, L. A. Owners, Vorst and Berman Co., 1333 East 6th street, L. A. Location, Santa Fe and Cheney streets, covering an area of 100 by 100 feet. Interior finish pine. Metal window sash and frames. Exterior faced with cement plaster. Plans being revised.

LOS ANGELES, CAL. — Factory, 3 story and base, brick. Cost not stated. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owner, Mrs. M. H. Olmsted. Location, northwest corner of Pico and Los Angeles streets, covering an area of 76 by 192 feet. Designed for an automobile factory. Interior finish pine. Concrete and pine floors. Elevator service. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

LOS ANGELES, CAL.—Warehouse, 5 story and base. Class A construction, $58,000. Architect W. J. Dodd, Brockman Bldg., L. A. Owners, Los Angeles Trust and Savings Bank, Trustee. Location, Santa Fe avenue and Bay. Contractors, The Davidson Construction Co., 16th and Tennessee streets, L. A. Contract price, $58,000.

LOS ANGELES, CAL.—Factory, 2 story and base, brick, $23,280. Architect, C. E. Shattuck, Mason Bldg., L. A. Owner, R. H. Arnold. Contractor, George M. Easton, 436 West 30th street, L. A. Contract price, $23,280.

FIRE HOUSES AND JAILS

Contracts Awarded.

SAN FRANCISCO—Detention home hardware, $2,228. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Contractor, A. W. Pike, 711 Mission street, S. F. Contract price, $2,228.

FLATS

SAN FRANCISCO—Fats, 2 story and base, frame, $5,000. Architect, none. Owner, Mrs. Flora Flynn, 546 Webster stree, S. F. Location, west 2nd avenue south of Cabrillo. Will contain two modern flats of five and six rooms. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Basement garage. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flat alteration, 2 story and base, frame, $2,500. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, D. Giannini. Location, south Pacific east of Leavenworth. Work will consist of raising the building and constructing stores on the ground floor. New interior trim, plastering, painting, plumbing and electric work will be required. Exterior will be faced with cement plaster. Plans are complete and work will be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $7,500. Architect, none. Owner, Sidney Walker, 1616 Oak street, S. F. Location, east Central avenue north of Hayes. Will contain four modern flats of five and six rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Basement garage. Automatic water heaters. Bath rooms tile and composition. Exterior faced with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flat alteration, 2 story, frame, $2,500. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, Louis De Martini. Location, southeast Grant avenue and Filbert street. Work will consist of adding a second and third story, new interior finish, plumbing, plastering, electric work and painting. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

OAKLAND, CAL.—Garage, 1 story and base, brick and steel, $25,000. Architect, none. Owner, Edward Somarstrom, 202 East 12th street, Oakland. Location, east Broadway between 28th and 29th streets. Designed for a commercial garage. A large mezzanine floor will be provided. Interior finish pine. Cement floor. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

New Army Construction.

An important action has been taken by the quartermaster general this week in sending to the Presidio of San Francisco the plans for no less than 20 sets of quarters for field and line officers, new buildings which are greatly needed at that Army post. The edifices will be of concrete, tile, or brick, the material to be designated later. These quarters will be located between the cantonments and near the terminal of the street-car line. The new con-

struction at Fort Kamahameha, in Hawaii, of officers' quarters and barracks for four batteries of coast artillery has been completed. These are of the bungalow type, frame structures, cool and commodious, as is demanded by the climate. The line officers' quarters consist of a living room, dining room, kitchen, three bed rooms, laundry, store room, bath, and servants' rooms with bath. A fire place furnishes all the heating facilities that are needed in that climate. The Army quartermasters are confronted with an unusual situation in the Philippines on account of the typhoons which have occured during the last few months. These disturbances have been severe and numerous and have wrought much damage to Army property at Camp Stotsenburg, Baguio, and Corregidor. The buildings destroyed will have to be replaced, and it may be necessary to obtain a special appropriation for the purpose. It is not expected there will be much Army construction during the present year on account of lack of funds, but, of course the increase in the Army will necessitate some additional quarters and barracks, the available appropriations being devoted largely, however, to repairs and renovations of existing structures.

Letterman Hospital, Building.

Awards have been made as follows for the construction of second-story addition to the bacteriological laboratory at the Letterman General Hospital: Frank M. Garden & Co., San Francisco, Cal., for construction, with tile roof, $2,753; Adolph Wegner, San Francisco, Cal., plumbing, $440; McFell Electric Co., electric wiring, $498. New bids for light fixtures are to be secured.

San Francisco Circular No. 147.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office curcular No. 147:

Bid 1. Handlan-Buck Mfg. Co., St. Louis, Mo.

2. Western Electric Co., 680 Folsom street, San Francisco, Cal.

3. Squires & Bryne Rubber Co., 67 Steuart street, San Francisco, Cal.

4. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.

5. H. W. Johns-Manville Co., 2nd and Howard streets, San Francisco, Cal.

6. Plant Rubber & Supply Co., 32 Beale street, San Francisco, Cal.

7. General Electric Co.,Rialto Building, San Francisco, Cal.

8. California Casket Co., 959 Mission street, San Francisco, Cal.

9. Crandall Packing Co., New York City.

Item 1. 3 coffins, per spec.—Bid 8, $17.99 ea, accepted.

2. 28 brackets, goose—Bid 2, $5.20 ea; 4, $4.20, accepted.

3. 28 lamps, "Mazda," 250 c. p.—Bid 2, $2.149 and $2.35 ea; 4, $2.149 and $2.884; 7, $1.491 and $1.726, accepted.

5, 6 and 7. 770 lbs packing, steam—Bid 1, 71c lb; 3, 45c; 5, 11c, accepted; 6, 55c; 9, 70c.

Removing Wreck.

The contract for removing wreck of the City of Panama from San Francisco Bay was awarded to Malvin A. Taylor, of East Oakland, Cal., at $9,280.

Earthwork.

Bids for earthwork and structures, Bowdian canal, Milk River project, were received by the U. S. reclamation service at Malta, Mont., as follows:

Schedule 1.

L. W. Dotson, Glasgow, Mont., $9,105.50.

James O. Connor, Malta, Mont., $9,452.50.

Schedule 2.

No bids received.

Investigation of Army Contractors.

A state of affairs has arisen in the vicinity of Vancouver Barracks, Wash., described by the contracting quartermaster at that place, leading to the investigation of the situation by the Department of Justice. Bids were recently invited for furnishing 750 barrels of cement for use in certain construction at Vancouver Barracks, and the four bids received were at the identical rate of $2.50 per barrel. The quartermaster writes: "It has been known to this office for some time that all the dealers in the vicinity are forbidden by producers to enter into competition by bidding less than $2.50 per barrel. However, one of the bidders informed this office that in open-market sales it is immaterial at what price the dealer sells, provided the loss is made out of his own pocket." One of the bidders offered to furnish the material in open market at a price that would have resulted in the saving of about $40 on the entire contract. The War Department has authorized the rejection of all the bids and the purchase of 200 barrels of cement in open market at $2.25, in order to avoid delay in starting the work. While the instructions imposed upon dealers by the manufacturer seem to be a local condition only, and apparently not in violation of the federal laws against restraint upon interstate and foreign trade, the Department of Justice has been advised of this particular incident for use in connection with its investigation of the general cement trade conditions in Pacific Coast States.

HALLS AND SOCIETY BUILDINGS.

STOCKTON, SAN JOAQUIN CO., CAL.—Armory, 1 and 2 story and base, reinforced concrete. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Fireproof construction. Will contain drill rooms, offices and social rooms. Interior finish pine and hardwood with maple floor in the drill rooms. Steam heat and hot water supply. Exterior faced with pressed brick. Plans complete and figures being taken. Bids will be opened on May 2nd at 12, noon. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

ROSEVILLE, PLACER CO., CAL.—City hall alterations, 2 story and base, brick and frame, $5,000. Architect, none. Owners, City of Roseville. Work will consist of interior alterations, new partitions, interior trim and plumbing and electric work. Plans are complete and figures will be called for at once.

HOSPITALS

SACRAMENTO, CAL.—Hospital ward, 2 story and base, reinforced concrete and hollow tile, $40,000. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Harvey A. Klyce, Sheldon Bldg., S. F., presented the low figure for constructing the new ward building at the Sacramento County Hospital at $40,482. The bids of the three lowest men were taken under advisement. A complete list of the bids will be found under the heading of Sacramento and Northern California in this issue.

STOCKTON, SAN JOAQUIN CO., CAL.—Hospital cottages, 2, 1 story and base, concrete and frame. Cost as follows. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. A complete list of the bids received for the construction of two buildings at the Stockton State Hospital appears under the heading of Sacramento and Northern California in this issue.

TALMAGE, MENDOCINO CO., CAL.—Hospital dumb waiters, $6,800. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Burdett-Rowntree Co., of San Francisco, submitted the only bid for an electric elevator and dumb waiter for Mendocino State Hospital at Talmage for $6,800. Their bid ran over the appropriation by $100. Same was referred to the State Architect.

LOS ANGELES, CAL.—Hospital addition, 2 story and base, reinforced concrete. Cost not stated. Architect, A. C. Martin, Higgins Bldg., L. A. Owners, Angelus Hospital. Location, east Washington and Maple streets. Only preliminary plans have been prepared and details of the construction cannot be given at this time. The building will be fireproof and exterior faced with cement plaster. Plans are being prepared.

LOS AGELES, CAL.—Orphans' home, 3, 2 story and base, reinforced concrete, $75,000. Architect, John F. Blee, Union League Bldg., L. A. Owners, Masonic Orphans' Home. Location, 12 miles out of Covina. The administration building will be 84 by 112 feet and will contain alministrative offices of the home, music and social rooms, hospital and operating rooms, gymnasium and several living suites. The boys and girls dormitory, 84 by 43, the former having provision for 62 beds and the latter 51 beds, each building containing besides the dormitory social and study rooms, sewing rooms, toilets, etc. The buildings will have concrete foundations and base, walls reinforced concrete, skeleton frame and floor slabs, brick filler walls, tile or metal lath and plastered interior partitions, tapestry brick exterior. Plans are complete and figures have been taken. A contract will be awarded shortly.

HOTELS

SAN FRANCISCO—Hotel and stores, 3 story and base, brick and steel, $25,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, Vayssie Bros. Location, Post and Polk streets. Will contain five stores on the ground floor and a total of 45 rooms and a number of baths on the upper floors. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning furnace and hot water supply. Patent store fronts. Marble and tile bases. Bath rooms tile. Exterior faced with pressed brick

and cement plaster. Plans complete and figures being taken.

PINOLE, CONTRA COSTA CO., CAL.—Hotel, 2 story and base, frame, $5,000. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner's name withheld. Will contain a number of single rooms and several public baths. Hot water supply. Composition floors in the bath rooms. Exterior covered with shiplap. Plans complete and figures being taken.

CORNING, TEHAMA CO., CAL.—Hotel addition, 2 story and base, brick and frame, $7,000. Architect, Chester Cole, Chico. Owners, Gus and Otto Liersch, Corning. The addition will contain 18 rooms and several baths. Interior finish pine and redwood. Hot water supply. Bath rooms will have composition floors. Exterior will be faced with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL.—Hotel, 3 story and base, brick. Cost not stated. Architects, Edelman & Barnett, Black Bldg., L. A. Owner, Dr. Hill. Location, Front and Fifth streets, covering an area of 50 by 75 feet. Will contain four stores on the first floor, barber shop and billiard room in the basement and a total of 36 rooms and several baths on the upper floors. Interior finish pine. Steam heat, oil burning system and hot water supply. Composition floors in the bath rooms. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

AMADOR CITY, AMADOR CO., CAL.—Hotel, 2 story and base, brick, $30,000 Architect, T. D. Voorhees, Central Bank Bldg., Oakland. Owner's name withheld. Will contain 40 rooms and several baths besides lobby and offices. Interior finish pine and redwood. Bath rooms composition floors. Steam heat and hot water supply. Exterior covered with pressed brick. Plans being prepared.

LOS ANGELES, CAL.—Hotel, 3 story and base, brick. Cost not stated. Architects, Edelman & Barnett, Black Bldg., L. A. Owner, Dr. Hill. Location, Front and Fifth streets. Will contain four stores and a number of single rooms with and without baths. Interior finish pine. Steam heat, hot water system and patent store fronts. Marble bases. Exterior faced with pressed brick and terra cotta. Plans complete and figures being taken.

WATERMAN SPRINGS, SAN BERNARDINO CO., CAL.—Hotel, 2 story and base, frame. Cost not stated. Architect, B. Cooper Corbett, Union Oil Bldg., L. A. Owners, Waterman Springs Hotel Co. Building will be in the shape of the letter H, the central portion covering an area of 40 by 80 feet and the two wings 40 by 190 feet each. Interior finish pine and redwood. Some hardwood floors. Steam heat and open fire places. Hot water system. Bath rooms tile. Exterior covered with rustic and shingles. Plans being prepared.

POWER IMPROVEMENTS

REDDING, SHASTA CO., CAL.—Water pipe. Cost not stated. Engineer, none. Owners, City Yreka. The City Clerk has been instructed to advertise for bids for supplying 400 feet of 4-inch standard galvanized pipe for the water main on the south extension of the Fourth street line. Further information may be had from the City Clerk.

SUNNYVALE, SANTA CLARA CO., CAL.—Pump. Cost not stated. Engineer, Town Engineer F. P. McCray, Sunnyvale. Owners, Town of Sunnyvale. At the regular meeting of the Board of Trustees of the town of Sunnyvale Town Engineer F. P. McCray was instructed to draft plans and specifications for a booster pump at the municipal water plant to serve as a basis for advertisement for bids. Further mention will be made of this work.

VENTURA, VENTURA CO., CAL.—Municipal lighting plant. Cost not stated. Engineer, none. Owners, City of Ventura. The first step toward municipal ownership of an electric lighting plant was taken by the City Trustees when a committee was appointed to secure plans and specifications for a municipal electric light plant suitable for the lighting of Ventura. Further mention will be made of this work when a report is rendered by the committee.

RIVERSIDE, RIVERSIDE CO., CAL.—Reservoirs, etc. Cost not stated. Engineer's name not given. Owners, University of California. Bids will be received until April 10th for the construction of a 55,000 gallon reinforced concrete reservoir, a 160,000 gallon oiled lined earth reservoir, about 4,400 feet of main irrigation pipe lines, about 2,420 feet of domestic water supply and miscellaneous piping, two pump houses and miscellaneous construction for the new citrus experiment station at Riverside.

RAILROAD CONSTRUCTION AND EQUIPMENT

LOS ANGELES, CAL.—Elevated railroad, $166,000. Engineer, Engineering Dept. Pacific Electric Railroad Co., L. A. Owners, Pacific Electric Railroad Co. The Pacific Electric Railway Co. has secured a permit for the elevated tracks which it will construct from the rear of the present station to San Pedro street. A number of steel and concrete umbrella sheds will also be erected, and the present station layout changed.

RESIDENCES.

SAN FRANCISCO — Residences, 3, 2 story and base, frame, $6,000 to $12,000. Architect, Chester H. Miller, First National Bank Bldg., Oakland. Owner, W. H. Humphrey, First National Bank Bldg., S. F. Location, northwest corner of Greenwich and Broderick. Will contain from six to ten rooms with two and three baths. Separate garages. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $7,900. Architect, none. Owner, Charles W. Gompertz, 503 Market street, S. F. Location, northeast Green and Broderick. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water supply and open fire places. Mantels tile and brick. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residences, 4, 2 story and base, frame, $3,000 each. Architect, none. Owner, R. McLelland, 530 12th avenue, S. F. Location, east 12th avenue north of Cabrillo. Each house will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $4,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name not given. Location, 11th avenue, Sunset District. Will contain seven rooms, bath and basement garage. Interior finish birch and gum with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Tile bath room. Automatic water heater. Exterior covered with brick veneer and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residences, 6, 2 story and base, frame, $6,000 to $10,000. Architect, E. P. Antonovich, Monadnock Bldg., S. F. Owner's name withheld. Location, Claremont Court. Will contain seven to ten rooms with two and three baths. Furnace heat, hot water supply and open fire places. Mantels tile and brick. Bath rooms tile. Separate garages. Interior finish pine, hardwood and white enamel. Hardwood floors. Exteriors covered with cement plaster. Plans being prepared. k

SAN FRANCISCO — Residences, 9, 2 story and base, frame, $3,000 to $5,000. Architect, H. R. Schultz, 28th avenue and Lake street, S. F. Owners, Allen & Co., 128 Montgomery street street. Location, 28th avenue near California. These houses are the first unit of over 100 modern homes to be erected in this district. They will contain from five to seven rooms with basement garage and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owners, Johns Bros., 1903 Baker street, S. F. Location, east 24th avenue south of Geary. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, James P. Fletcher, Russ Bldg., S. F. Location, south Balboa east of 21st avenue. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete

and work to be done by Day Labor.

SAN FRANCISCO — Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Edward F. Helms, 4303 Capp street, S. F. Location, south Santa Ynez east of Delano. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $4,000. Architect, none. Owner, A. Harrington, 10 Judah street, S. F. Location, east 22nd avenue south of Geary. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to he done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location 2528 San Jose avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. W. Anderson. Location, north Walnut avenue west of Lilac. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, A. R. Dexter, 2212 Grove street, Oakland. Location, south Oakland avenue east of Fairview. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 1 story, frame, $1,000 each. Architect, none. Owner, E. D. Fortman, 803 Haight street, Alameda. Location, 1117½ and 1135½ Pacific avenue. Each will contain four rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 1415 Willow street. Will contain six rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $4,500. Architect, Chester H. Miller, First National Bank Bldg., Oakland. Owner, S. P. Ward. Location, Caperton avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, William F. Neary, 1723 Telegraph avenue, Oakland. Location, east View north of Mather. Will contain five rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architect, Olin S. Grove, 2911 Telegraph avenue, Oakland. Owner, H. H. Gastman. Location, west Contra Costa avenue north of Indian Rock Path. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, Andrew Anderson, 521 53rd street, Oakland. Location, east Patterson south of Kansas. Will contain five rooms and bath. Interior finish pine. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, east Miles avenue south of Forest. Will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, George W. Nunes, 5430 Dover street, Oakland. Location, east Claremont avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,300. Architect, none. Owner, R. H. Kelly, 2240 47th avenue, Oakland. Location, east Trask north of Foothill Boulevard. Will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Charles D. Hart, 615 22nd street, Oakland. Location, east 38th avenue north of Kanning. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Emma Cobum, 2470 East 28th street, Oakland. Location, south Madeline west of Laurel. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, H. S. Butler, 5648 Oak Grove avenue, Oakland. Location, southeast corner Claremont and Pedestrian Way. Will contain six rooms, bath and sleeping porch. Interior finish pine, gum and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,200. Architect, none. Owner, Alvin J. Stern, 306 14th street, Oakland. Location, Pleasant street and Fruitvale avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, west Bay View north of East 28th. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, H. C. Pfrang, 320 Forest street, Oakland. Location, east Desmond south of Clifton. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, R. E. Stubbe, 1408 Grand avenue, Oakland. Location, east The Alameda. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places.

Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,100. Architect, none. Owner, H. C. Pfrang, 320 Forest street, Oakland. Location, west Mills avenue north of Foret. Will contain six rooms, baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 2 story and base, frame, $3,700. Architects, Schirmer & Bugbee Co., Dalziel Bldg., Oakland. Owner, Mrs. Hanna. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Furnace heat. Exterior covered with rustic and cement plaster. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Residences, 6, 1 story and base, frame, $15,000. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner's name withheld. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MARTINEZ, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $4,500. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, J. E. Colton. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Residences, 3, 2 story and base, hollow tile. Cost not stated. Architect, none. Owner, C. M. Long, 731 North Harrison street, Stockton. Location, Oak and Stockton streets. Each dwelling will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Charles Hansen, 114 22nd street, Sacramento. Location, Olno avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, A. K. Klingman, 709 Monte Clair avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Carl Kock, 3330 Carnell avenue, Sacramento. Location, 1036 Clark avenue. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, F. E. Lawrence, 2828 Thomas avenue, Fresno. Location, Belmont and Fresno streets. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALTADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architects, Buchanan & Brockway, Chamber of Commerce Bldg., Pasadena. Location, Los Flores Ranch. Will contain 12 rooms, three baths and sleeping porches. A number of out buildings, including a large garage, will also be erected. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably furnace heat, hot water circulating system and vacuum cleaning. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

SAN FERNANDO, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $50,000. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Merritt H. Adamson. Location, San Fernando Valley. Will contain 20 rooms, five baths and conservatory. Interior finish hardwood and white enamel. Hardwood floors throughout. Bath rooms tile and equipped with showers. Steam heat, oil burning plant and vacuum cleaning. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and ready for figures.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, H. Morser, Courtland and Walnut avenue, Oakland. Location, north Walnut east of Courtland. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Harold B. Dunn, Van Nuys Bldg., L. A. Owner, G. L. Grenshaw. Location, Lafayette Square. Will contain 15 rooms and four baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile and equipped with shuwers. Steam or hot water heating system and hot water circulating system. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

LOS ANGELES, CAL.—Residence, 2 story and base, frame, $20,000. Architects, Atlas Building Co., Haas Bldg., L. A. Owners, Atlas Building Co. Location, Occidental Boulevard. Will contain 12 rooms and three baths, sleeping porches and conservatory. Interior finish hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile and equipped with showers. Hot water circulating system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Foss Designing Co., 100 East Colorado street, L. A. Owner, W. D. Card. Location, Wentworth avenue near Oak Knoll. Will contain 16 rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water system and open fire places. Mantels tile and brick. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Marston & Van Pelt, Chamber of Commerce Bldg., L. A. Owner's name withheld. Location, East Pasadena. Will contain 15 rooms, five baths, sleeping porches and conservatory. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and hot water system. Vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

Contracts Awarded

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame, $20,000. Architect, Reginald D. Johnson, Staats Bldg., L. A. Owner, Mrs. A. F. Landreth. Contractor, D. M. Renton, 108 South Vernon avenue, L. A. Contract price, $20,000.

SCHOOLS

SAN FRANCISCO—School, 1 story and base, frame and plaster, $23,000. Architect, City Department of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Location, Tompkins between Folsom and Banks. Will contain eight class rooms, two in the basement and six on the main floor. Interior finish pine with maple and cement floors. Central heating system, oil burning equipment and vacuum cleaning. Exterior covered with cement plaster. Plans 90 per cent complete and bids to be called for shortly.

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick, steel and concrete, $90,000. Architects, Carl Werner and Charles E. J. Rogers, Phelan Bldg., S. F. Owners, City of Alameda. Location, Alameda between Oak and Walnut streets. Will contain 20 rooms besides an auditorium seating 1200 people. Interior finished in pine and maple. Tile and marble wainscot. Granite base. Steam heat, oil burning plant, vacuum cleaning and ventilating. Exterior faced with plaster brick. Plans complete and figures to be open-

ed on April 25th. Plans can be secured from the architects office or from the Clerk of the Board of Education, Alameda City Hall. $10 deposit required. Work is segregated into the following departments: (1) Excavating, grading, concrete work, brick and granite work; (2) carpentry, mill work, galvanized iron work, roofing, glass, hardware, stairs and patent flues; (3) iron work, plain and ornamental, structural steel, post caps, bases, anchors, etc; (4) plumbing, gas fitting, marble work and vacuum piping; (5) electric work; (6) lath and plastering, ornamental plaster and cement plastering; (7) painting and kalsomining; (8) heating and ventilating. On departments 1, 4, 5, 6 and 8 contractors are three days for figuring; on departments 3 and 7, two days and department 2, seven days.

RED BLUFF, TEHAMA CO., CAL.—School, 2 story and base, brick and concrete. Cost as follows. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Red Bluff Union High School District. A contract for the general construction has been awarded to James L. McLaughlin, 244 Kearny street, S. F., for $69,900. The following three low bids were received: McLeran & Peterson, Sharon Bldg., S. F., bid $66,665 for a cement finished building and $69,900 for pressed brick. James L. McLaughlin, 244 Kearny St., S. F., bid $69,190 for pressed brick. Welch Bros., & Hanneman, Oakland and Grass Valley, bid $68,890 for pressed brick, but an error in their bid may disqualify it. On the heating and ventilating, R. W. Eaton, Red Bluff, presented the low figure for steam heating at $9,500, and W. Morgan, S. F., the low figures for a blower system and also for furnace heat at $7,875 and $6,875. R. W. Eaton, Red Bluff, presented the low figure for electric work at $2,400, with C. C. Cowles, also of Red Bluff, second low at $3,385.

PINOLE, CONTRA COSTA CO., CAL.—School, 1 story, frame, $4,500. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owners, Pinole School District. Will contain two class rooms. Interior finish pine. Exterior covered with shiplap. Plans being prepared.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick and frame, $20,000. Architect, Orville L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Location, Union and Truxton streets. Will contain six class rooms. Interior finish pine and maple. Central heating system. Exterior covered with cement plaster. Plans being prepared.

WALLA WALLA, WASH.—Schools, 1, 3 story and 1, 2 story, brick and concrete. Cost as follows. Architects, Osterman & Sibert, Walla Walla. Owners, City of Walla. Bids opened by the School Board for the construction of an addition to the high school and the Ninth Street grade school show A. J. McLean, Walla Walla, low on the high school at $101,566, and low at $46,740 for the grade school. It is probable that he will be awarded the contract.

ROSEBURG, ORE.—School, 2 story and base, brick, $75,000. Architect, F. Mason White, Chamber of Commerce Bldg., Portland. Owners, City of Roseburg. Will cover an area of 166 by 127 feet. Besides class rooms there will be a large auditorium, manual training and domestic science departments. Interior finish pine with maple floors. Steam heat, modern school plumbing and vacuum cleaning. Marble and tile wainscot. Exterior faced with pressed brick. Plans nearly complete and figures to be called for shortly.

SEATTLE, WASH.—School heating and ventilating. Cost not stated. Architect, Edgar Blair, 1426 Jackson St., Seattle. Owners, City of Seattle. Bids will be received on April 7th for furnishing and installing a new heating and ventilating system in the Fay School. Plans and specifications can be secured from the architect.

HUNTINGTON PARK, LOS ANGELES CO., CAL.—School dormitories, 2 1 story and base, brick. Cost not stated. Architects, Edelman & Barnett, Black Bldg., L. A. Owners, Jewish Orphans Home Association. Each building will cover an area of 64 by 83 feet. Interior finish pine with maple floors. Steam heat and hot water system. Composition floors in bath bath rooms. Exteriors faced with pressed brick. Plans complete and bids being taken.

VICTORVILLE, SAN BERNARDINO CO., CAL.—School, 1 story and base, brick and hollow tile. Cost not stated. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owner, Victorville School District. Designed for high school purposes. Interior finish pine with maple floors. Central heating system. Modern school plumbing. Exterior faced with cement plaster. Plans complete and figures to be called for shortly.

PLACENTIA, ORANGE CO., CAL.—School, 1 story and base, concrete, $20,000. Architect, Fred H. Ely, Register Bldg., Santa Ana. Owners, Placentia School District. Will contain six class rooms and an assembly hall. Interior finish pine. Maple floors. Steam heat and oil burning system. Modern school plumbing. Exterior faced with cement plaster. Plans being prepared.

OXNARD, VENTURA CO., CAL.—School, 1 story and base, brick, $51,000. Architects, Allison & Allison, Hibernian Bldg., L. A. Owners, Oxnard School District. Will contain six class rooms and an auditorium seating 600 people. Interior finish pine with maple floors. Central heating system, probably steam heat with oil burning furnace. Designed for future additions and will have a frontage of 190 feet. Exterior faced with pressed brick and cement plaster. Plans being prepared.

Contracts Awarded.

BREA, ORANGE CO., CAL.—School, 1 story and base, hollow tile. Cost not stated. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, Brea School District. Contractor, G. A. Daniels, Herkimer Bldg., L. A., general construction only. Contract price not stated.

LOS ANGELES, CAL.—School, 1 story and base, brick, $27,067. Architect's name not given. Owners, City of Los Angeles. Contractor, George Condon, Wesley Roberts Bldg., L. A. Contract price, $27,067.

LOS ANGELES, CAL.—School, 4 story and base. Class A construction, $395,652. Architect, John C. Austin, Wright & Callender Bldg., L. A. Owners, City of Los Angeles. Contractors, Barber-Bradley Construction Co., 1824 East 15th street, L. A., general construction, $395,652. Western Heating Co., heating and oil burning equipment, $28,628 Arthur Hess, plumbing, $22,548. Southern California Electric Co., electric work, $13,158. Standard Electric Time Co., Sheldon Bldg. S. F., program clocks, $1,400.

SEWERS, STREET WORK & WATER SYSTEMS

SAUSALITO, MARIN CO., CAL.—Street improvements, $15,853.68. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. All bids received by the Trustees for street work on Central avenue, North and West streets were rejected, owing to protests of property owners. Only two bids were received: City Street Improvement Co., $16,166.47, and Blake Bros., $15,377.78. The engineer's estimate on the work was $15,853.68. It is probable that a new call for bids will be issued when the Trustees hear further from the property owners interested.

MARTINEZ, CONTRA COSTA CO., CAL.—Road construction. Cost as follows. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Bids were opened Monday, March 27th, for 7 miles 500 feet of concrete road in Contra Costa County, known as Division No. 2 of Tunnel Road. The City Street Improvement Co., 166 Geary street, S. F., were the lowest bidders and the job awarded to them. The following is a complete list of the bidders. Item 1 is concrete per cubic yard. No. 2 for line excavation per cubic yard and No. 3 for parapets per cubic yard: City Street Improvement Co., (1) $6.78; (2) 75c; (3) 40c. S. S. Abrams, (1) $6.80; (2) $1.00; (3) $1.00. O'Brien Bros., (1) $6.92; (2) 5c; (3) 20c. Blanchard & Ehrhardt, (1) $7.09; (2) 25c; (3) 50c. Jas. W. Willison, (1) $7.24; (2) 85c; (3) 45c. Raisch Improvement Co., (1) $7.25; (2) 75c; (3) 50c. Johnson Shea, (1) $7.30; (2) 50c; (3) 50c. McCrea & Layaz, (1) $7.30; (2) 80c; (3) 50c. W. J. Schmidt, (1) $7.40; (2) 50c; (3) 75c. V. M. Price, (1) $7.70; (2) 75c; (3) 50c. Marin Rock Co., (1) $7.76; (2) $1.00; (3) $1.00. Peterson & Grier, (1) $7.95; (2) 85c; (3) 85c. A. J. and J. L. Fairbanks, (1) $7.96; (2) 50c; (3) 50c. Spring Construction Co., (1) $7.99; (2) 50c; (3) 50c. W. A. Dontanville, (1) $8.10; (2) 50c; (3) 50c. Worswick Construction Co., (1) $8.25; (2) 50c; (3) 50c.

VALLEJO, SOLANO CO., CAL.—Drainage system, $2,758. Engineer, City Engineer, T. D. Kilkenny, Vallejo. Owners, City of Vallejo. The sewer system which is to be constructed for the purpose of draining the southeastern section of the city will cost $2,758.75, according to the estimate of cost submitted to the City Council. The plans and diagram prepared by the City Engineer were approved and adopted and a resolution of intention to construct the sewer system adopted. The sewer is to be laid in Solano avenue, Maine, Chase and Eighth streets, and will drain much property that at present does not enjoy the benefits of a sewer system. Further mention will be made of this work.

SAN ANSELMO, MARIN CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. The Town Trustees have instructed the Town Engineer to prepare plans and specifications for the sewering of the

Short ranch. Further mention will be made of this work.

NAPA, NAPA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Napa. Owners, City of Napa. The City Council has passed a resolution of intention providing for the following street work: That the roadway on Laurel street, from the westerly line of Grant avenue to the easterly line of Even street, including therein all intersections and terminations between said limits except the intersections of Union and Laurel streets and Franklin and Laurel streets, be graded to its full width and that cement concrete curbs be constructed on both sides of said roadway between said limits. Also that the roadway be paved with two-course asphalt macadam, consisting of crushed rock six inches in depth after its final rolling and asphaltum with a penetration between 101 and 150 degrees, District of Columbia standard. All said work to be based on the official lines and grades. Bids will be called for at the April meeting.

SAN JOSE, SANTA CLARA CO., CAL.—Street improvements Cost not stated. Engineer, City Engineer, San Jose. Owners, City of San Jose. The following action was taken at the last meeting of the City Council relative to street improvements: Resolutions of intention to pave the crossings of San Fernando street at Ninth street and at Fourth street were given a second reading and adopted. Upon motion made by Councilman Bernhrdt, curbs, gutters and sidewalks will be ordered in on Home street, between Delmas and Martin on the south side of the street. A second notice for the owners of property on Fuller avenue between Bird and Delmas streets will be sent ordering them to put in curbs and gutters. Plans and specifications for the paving of the streets around the city hall will be drawn up by the City Engineer and presented at the next meeting. Plans and specifications for the improvement of 8th street, from San Salvador to William street, were filed by the City Engineer and accepted.

SANTA CLARA, SANTA CLARA CO., CAL.—Street improvement, $35,047.01. Engineer, City Engineer, Santa Clara. Owners, City of Santa Clara. The Town Trustees opened bids at their last meeting for the paving of the San Francisco road from Scott's lane to Lincoln and south on Lincoln street to Lexington street and west to the limits of the town on the Homestead road, and Franklin street from Lincoln to Jefferson street, and Grant street from Franklin to The Alameda and south on that thoroughfare to the limits of the town. The following bids were opened: Eaton & Smith, of San Francisco, $38,847.84; Grace & Bernieri of San Francisco, $39,509.17; Ransome-Crummey Co., $37,148.65; W. A. Dontanville of Salinas, $37,345.54; Marin Rock Co., $41,928; Fay Improvement Co., $35,483; Paul & Caldwell, $13,167; Clark & Henery, $37,097.17; Raisch Improvement Co., $37,184.17; Blanchard, Brown & Co., $39,404.46; City Street Improvement Co., $35,047.01; J. W. McDonald & Co., $38,127.33; Teichert & Son, $43,872; Johnson-Shea Co., $40,973.88; McGillivrey Construction Co., $37,565.25; E. H. Sundburg, $30,985. The contract was awarded to the City Street Improvement Co., Whittell Bldg., S. F., for the sum of $35,047.01.

SALINAS, MONTEREY CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Salinas. Owners, City of Salinas. At the last meeting of the City Council the plans and specifications for the improvement of John street, from the east line of South Main street to the west line of Front street with hydraulic 4-inch concrete base and two-course asphalt surface, were adopted. It is probable that bids on this work will be called for at the next meeting. Plans were also ordered at the same meeting for the improvement of Gabilan street, from Monterey street to California street. Stone street received a similar resolution. Further mention will be made of this work.

EUREKA, HUMBOLDT CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. A mass meeting called by A. C. Root, street building expert, resulted in property owners and citizens favoring the paving of the main thoroughfares leading into Eureka. It is proposed to pave from 20 to 24 feet in width and is to be composed of asphalt and concrete; a 5-inch base of the latter and a one and one top of the former. Further mention will be made of this work.

EUREKA, HUMBOLDT CO., CAL.—Dike construction. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until April 11th for the construction of a dike for road purposes through the mud flats near Arcata in Road District No. 5 in said Humboldt County.

MODESTO, STANISLAUS CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Modesto. Owners, City of Modesto. Plans have been approved and bids have been ordered received for the following street improvement: That McHenry avenue, from the northerly property line of Annie street and the northerly line of Needham street northerly to the center line of Stoddard avenue, in the city of Modesto, be graded and paved to the official grade with asphalt concrete pavement 4 inches in thickness—a foundation course 2½ inches in thickness and a wearing surface 1½ inches in thickness, and curbed with cement concrete curbing, and to further construct cement concrete gutters. Bids on this work close April 12th at 5 p. m. Plans may be had from the City Clerk at Modesto.

FRESNO, FRESNO CO., CAL.—Sewer construction, $50,000. Engineers, Olmstead & Gillelen, L. A. Owners, City of Fresno. With the approval of the City Council, Mayor Snow arranged to sign a contract with Frank H. Olmstead, of the firm of Olmstead & Gillelen of Los Angeles, as consulting engineers for plans of the proposed half million bond issue for a new sanitary sewer system and storm sewers.

TURLOCK, STANISLAUS CO., CAL.—Street paving and sewers. Cost not stated. Engineer, City Engineer, Turlock. Owners, City of Turlock. The City Council has accepted specifications and adopted resolutions of intention for the paving of Lander avenue form the end of the present pavement to the city limits, and the grading, oiling and curbing of Park and Flower streets. The Lander avenue work will be cement concrete to conform to the State highway construction. The City Engineer was instructed to prepare plans and estimates of cost for a sewer on Park street.

FRESNO, FRESNO CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Council has passed "notices of street work" as follows: That Poplar avenue in the city of Fresno, from the north line of Belmont avenue to the south line of Englewood avenue, be graded and curbed, except such portions of said avenue as are already curbed, to the official grade with concrete curbing, oiled and macadamized, according to the specifications set forth in Ordinance No. 714 of the City of Fresno and adopted by the Board of Trustees, excepting that twenty pounds of crushed rock per square foot and two gallons of oil per square yard shall be used, and that 6 by 24 inch corrugated iron culverts shall be substituted for brick and wood culverts; all said work to be done to the official grade and in accordance with the aforesaid specifications on file in the office of the City Clerk of the city of Fresno; two culverts to be constructed with connecting branches, one on each side of Bremer avenue. Further mention will be made of this work.

MODESTO, STANISLAUS CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Modesto. Owners, City of Modesto. The City Council at its last meeting passed a resolution ordering the calling for bids on the new pavement for McHenry avenue from Needham and Annie Sts. to Stoddard. Plans may be had from the City Clerk at Modesto.

VENTURA, VENTURA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Supervisors at their last meeting directed the County Clerk to advertise for bids for the building of that section of the highway between Santa Paula and Fillmore, a distance of a fraction over 8 miles. This road is to be of concrete, 16 feet wide and 4 inches thick, and is one of the more important sections of the system. Plans may be had from the County Clerk.

WALLA WALLA, WASH. — Street paving, $150,000. Engineer, City Engineer, Walla Walla. Owners, City of Walla Walla. Bids have been called by City Clerk M. A. Power, to be opened on April 4th, for the paving of 16,000 feet of city streets, covering practically 31 blocks. Paving will be determined following the opening of figures, as proposals will cover all makes of pavement. W. R. Rehorn is City Engineer. Plans and further information may be had from the City Clerk or Engineer.

SAN FRANCISCO—Street improvements. Cost not stated. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The San Francisco Board of Public Works has directed the Secretary to advertise for bids for the following street work: Judah, from 17th to 18th, Bids close April 5th. Hudson avenue, from Railroad to Mendell; Rhode Island from 25th to Army, Elsie from Esmeralda to Winfield, and Bay View from Railroad to Flora; on the above bids close April 12th.

BERKELEY, ALAMEDA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. The City

Council has passed a resolution of intention providing for the following work: That the northern ½ of Gilman street, from a line parallel to the center line of Fleurange avenue and distant 10 feet at right angles westerly therefrom, westerly 1734 feet, be graded; that a redwood curb be constructed along the curb line thereof to the official grade; that a concrete gutter 3 feet wide be constructed in the roadway against said curb and that the remainder of the roadway in said portion of Gilman street be macadamized and surfaced with oil and rock screenings.

SACRAMENTO, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The City Commission has passed resolutions of intention providing for the following work: That 33rd street from the north line of Y street to the north line of Cypress avenue, be improved by removing and disposing of all surplus material; constructing concrete curbs and gutters; placing cast iron gutter drains with 6-inch vitrified ironstone sewer pipe elbows; constructing concrete manholes, complete, with cast iron curbs and covers; constructing 6-inch vitrified ironstone sewer pipe drains; reconstructing one concrete manhole; grading the space between the property line and curb and constructing concrete sidewalk 6 feet in width and 3½ inches in thickness; grading the roadway and constructing thereon and asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches in thickness. That 22nd street, from the south line of B street to the north line of Y street, be improved by grading the area between the property line and curb, constructing concrete sidewalk, 6 feet in width and 3½ inches in thickness.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. At the last meeting of the City Council a week's time was given the sewer committee and City Engineer H. D. Chapman to inspect the plans and specifications for the proposed sewer on north 7th street. Further mention will be made of this work.

BAKERSFIELD, KERN CO., CAL.—Lighting system, $32,400. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. An electrolier system of lighting, as planned by the Bakersfield Chamber of Commerce, is being considered by the City Council. The Council is in favor of installing the system. It is probable that some action will be taken within the next few days. W. D. Ryan, of the General Electric Co., is taking an active part in having the proposed system installed.

NAPA, NAPA CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on April 11th for the building of a new road in Capell from Berryessa road down the valley to Galbreath's.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Street work. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Soquel avenue from Cayuga street to Arana gulch is to be macadamized and sewer and sidewalk work completed. Resolutions to this effect were passed by the City Council at the last meeting. The asphalt pavement of the City Street Improvement Co. is called for in the specifications. Further mention will be made of this work when bids are called for.

LOS ANGELES, CAL.—Street improvements. Cost not stated. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be opened on April 17th for certain improvement work on Coast Boulevard from El Segundo to Venice city limits in Road District No. 4. Also, certain improvement work on portion of Pico Boulevard in Road Districts Nos. 3 and 4.

LOS ANGELES, CAL.—Road construction, $21,425. Engineer, County Surveyor, L. A. Owners, Los Angeles County. New bids will be opened on April 10th for improving 1.51 miles of Artesia avenue from Palo Verde avenue to Main street near Azusa, in Road Improvement District No. 61. The contract was previously awarded to the Coast Construction Co. at $18,572, but they withdrew their bid. The road commissioner's estimate of cost is $21,425. The approximate quantities include 4,500 cubic yards of excavation, 7,596 lineal feet of shaping road bed, 4,700 pounds of steel, 582 tons of sand, 2,815 tons of stone, 47 tons of screenings, 202 barrels of asphaltic oil, 8,178 tons of disintegrated granite, 6,050 lineal feet of expansion joints, 16,880 square yards of concrete pavement, 1,170 barrels of cement to be furnished by the county, and 116 cubic feet concrete culverts. The estimated cost is $21,425.

STORES AND OFFICES

SAN FRANCISCO — Cafeteria tile work, $5,000. Architect, A. F. Heide, Russ Bldg., S. F. Owners, Bancroft Estate, leased to Boos Bros. of Los Angeles. Location, 725 Market street. Work will consist of installing tile floor and walls. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Creamery, 2 story and base, frame, $4,500. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Fenton Creamery. Location, 4099 Howe street. Will contain sales rooms and office. Interior finish pine and tile. Exterior covered with cement plaster. Plans complete and figures being taken.

PALO ALTO, SANTA CLARA CO., CAL.—Store, 3 story and base, brick, $20,000. Architect, Arthur S. Heineman, San Fernando Bldg., L. A. Owner, Ernest Wilson Co., Palo Alto. Designed for a candy factory and store. Interior finish pine, tile and ornamental plaster. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and in the hands of the owner who will let all contracts.

LOS ANGELES, CAL.—Market, 2, 1 story and base, reinforced concrete. Cost not stated. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owners, Standard Leasing Co. Location, 6th and Mill streets, covering an area of 55 by 350 feet. Designed for a municipal market. Interior finish pine, tile and white enamel. Cement and tile floors. Ventilating system. Patent store fronts. Exterior faced with white glazed brick. Plans complete and bids being taken for materials.

LOS ANGELES, CAL.—Stores and lofts, 2 story and base. Class C construction. Cost not stated. Architect, F. A. Brown, Investment Bldg., L. A. Owner, Frank M. Tandy. Location, Wall street near 7th, covering an area of 410 by 125 feet. Interior finish pine. Patent store fronts and marble bases. Automatic sprinkler. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL. — Wholesale buildings, 2, 2 story and base, Class C construction. Cost not stated. Architect, John Parkinson, Security Bldg., L. A. Owners, Los Angeles Union Terminal Co. Location, 7th and Central avenue, covering an area of 40 by 1500 feet. Interior finish pine. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared.

LOS dANGELES, oCAL.—Stores and lofts, 3 story and base. Class C construction. Cost not stated. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owners Brown, Pallette & Brown. Location, Los Angeles street between 10th and 11th streets, covering an area of 60 by 140 feet. Will contain a number of stores and lofts. Interior finish pine and redwood. Patent store fronts. Metal window sash and frames. Exterior covered with pressed brick. Plans being prepared.

LOS ANGELES, CAL. — Wholesale building, 4 story and base, reinforced concrete. Cost not stated. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, E. P. Bosbyshell. Location, Central and Second street, covering an area of 80 by 200 feet. Fireproof construction. Interior finish pine and tile. Patent store fronts. Automatic sprinklers. Metal window sash and frames. Elevator service and steam heat. Exterior faced with cement plaster. Plans complete and figures being taken.

VAN NUYS, LOS ANGELES CO., CAL.—Administration building, 2 story and base, brick, $20,000. Architect, J. J. Backus, City Hall, L. A. Owners, City of Van Nuys. Designed to house the clerical departments of the city, branch fire station and police headquarters. Interior finish pine and hardwood. Metal window sash and frames. Steam heat. Exterior faced with pressed brick. Plans complete and bids to be called for shortly.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1025 — Proposals for annual estimate for the period ending June 30, 1917, for Valve Oil, Air-Compressor Cylinder Oil, Marine-Engine Oil, Stationary-Engine Oil, Locomotive-Engine Oil or Grease, Cup Locomotive-Engine Oil, Car Oil, Non-Liquified Oil or Grease, Cup Grease, Black Gear Grease, Cotton Waste, and Wool Waste.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 21, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1025) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, major, corps engineers, U. S. A., general purchasing officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1026—Proposals for Steel Angles, Brass Tubing, Bronze Bars, Copper Sheathing, Yellow Metal, Copper Nails, Laundry Water Heater, Ejectors, Scrubbing Brushes, Hand Wire Brushes, Water Coolers, Glass Pitchers, Chinese Strainers, Aluminum Trays, Enamel Ware, Knives, Spoons, Towels, Thumb Tacks, Rubber Bands, Bond Paper, Manila Rope, and Spruce Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 13, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1026) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the folowing cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps engineers, U. S. A., general purchasing officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1023 — Proposals for Laundry Washers, Track Frogs, Switches, Switch Stands, Steel Plates and Billets, Pig Iron, Malleable Iron Castings, Steel and Iron Pipe, Lead Pipe, Mule Shoes, Nails, Wire Netting, Bronze Bars, Sheet Copper, Copper Tubing, Zinc Plate, Cable Clips, Vises, Shovels, Stocks and Dies, Reamers, Drills, Bits, Hammers, Hatchets, Axes, Machetes, Chisels, Saws, Planes, Wrenches, Pliers, Pipe Tongs, Files, Grommets, Grease Cups, Distress Outfits, Emery Wheel Dressers, Clocks, Marine Lights, Calcimine Brushes, Wagon Rims, Watt-hour Meters, Panel Boards, Marine Fixtures, Electrical Fittings, Cotton Waste, Manila Rope, Hose, Asbestos Packing, Fire Brick, Asbestos Cement, Ferromonganese, Turpentine Substitute, Filling Boxes, Journal Books, Cardboard, Manila Tags and Cypress Ties.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 8, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1023) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. A., general purchasing officer.

PROPOSALS FOR ALASKA R. R. SUPPLIES.

ALASKA SCHEDULE 158—Alaskan Engineering Commission, Office of the Purchasing Agent, Seattle, Wash.—Sealed proposals will be received here until **April 11, 1916**, under proposal 158 for furnishing the following: Twelve dozen scythes, 18 file handles, 40 pounds emery and 2½ reams emery cloth, 150 pounds dry blue, 24 fire extinguishers, 24 nickel-plated cuspidors, 36 galvano meters, 24 hay rakes, 27 warehouse trucks, 77 kegs bolts, 263 kegs spikes, 6,000 machine bolts, 23,000 pounds wrought iron rods, 200 sets car wheels, 1,060 extra brasses, 20 extra boxes for car wheels, 860 tons steel rails (standard), 15,750 pairs fish plates, 100 tons steel rail, 1,500 fish plates, 6 rigid frogs, 6 switch stands (light weight), 12 bridles (36-inch gauge), 6 head blocks, 12 track wrenches, and 8 dozen track chisels. For further information address C. E. DOLE, purchasing agent

NOTICE TO DEALERS IN PILES.

OFFICE OF THE BOARD OF STATE Harbor Commissioners, Union Depot and Ferry House, San Francisco.

Sealed proposals or bids will be received at this office at or prior to **11:00 o'clock a. m., on Thursday, April 13th, 1916**, for furnishing such piles as the Board of State Harbor Commissioners may use on the various piers and wharves on the waterfront of the City and County of San Francisco, in accordance with the specifications prepared therefor by the Chief Engineer of the Board, and adopted by the Board March 23, 1916, and on file in this office, to which special reference is hereby made.

The Piles to be furnished under this contract must be fresh cut, first quality, Douglas yellow fir piles; neither churn-butted piles nor piles showing traces of any sap or wind shake, heart or falling checks, large or unsound knots, or piles which twist more than once in thirty (30) feet, will be accepted. The contract for furnishing piles at the stipulated prices shall be for one, two or three consecutive years at the option of the Board.

No bid will be received unless it is made on a blank form furnished from this office and is accompanied by a certified check of two thousand $2,000.00) dollars, payable to the order of the Secretary of the Board, as a guarantee on the part of the successful bidder that he will within six (6) days after the acceptance of the bid, enter into a written contract to furnish piles, according to the specifications prepared therefor, and will also execute and file with the Board a bond in such sum as the Board may deem adequate, with two (2) or more sureties to be approved by the Board of State Harbor Commissioners, and conditioned for the faithful performance of such contract, nor will said bid be considered by the Board unless delivered to the Secretary or to the Assistant Secretary, Room 11, Ferry Building, at or prior to **11:00 o'clock a. m. on Thursday, April 13, 1916**, at which time and place the bids will be opened.

The Board reserves the right to reject any or all bids if deemed for the best interest of the State.

Bidders are invited to be present at the opening of the bids.

Bidders are requested to mark envelope containing bid, "Bid for Piling."

J. J. DWYER,
THOS. S. WILLIAMS,
J. H. McCALLUM,
Board of State Harbor Commissioners.
JEROME NEWMAN,
Chief Engineer.
LEO V. MERLE, JR.,
Secretary

NOTICE TO CONTRACTORS.

PROPOSALS FOR MOVING STOREHOUSES.

DEPOT QUARTERMASTER'S OFFICE, Fort Mason, San Francisco, Cal.—SEALED PROPOSALS will be received here **until 10 A. M., April 10, 1916**, for moving 4 storehouses from Exposition Grounds to Fort Mason. Further information on application. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum building, Sacramento, California, **up to and including 12 o'clock, noon, Tuesday, May 2, 1915**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20,00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Tuesday, May 2, 1916**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

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(Signed) W. F. McCLURE,
State Engineer.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F.McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, May, 1, 1915**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Boiler Plant Equipment," Power House, Norwalk State Hospital, near Norwalk, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20,00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Boiler Plant Equipment,' Power House, Norwalk State Hospital, near Norwalk, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal. — SEALED PROPOSALS, in triplicate, for constructing oiled shoulders on concrete road at Presidio Reservation, will be received here **until 11:00 A. M., April 11, 1916**. Further information on application. (*)

Regarding the educational interest in the United States much has already been written. The enthusiasm among local university students is considerable. Twenty students are known to have sailed to the United States during the past year, and the total number is probably much greater.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—3, 2 story and base, frame, $6,000 to $12,000. San Francisco. Architect, Chester H. Miller, First National Bank Bldg., Oakland. Owner, W. H. Humphrey, First National Bank Bldg., S. F. Location, northeast corner of Greenwich and Broderick. Will contain from six to ten rooms with two to three baths. Separate garages. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,900. San Francisco. Architect, none. Owner, Charles W. Gompertz, 503 Market street, S. F. Location, northeast Green and Broderick. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water supply and open fire places. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, R. McLelland, 530 12th avenue, S. F. Location, east 12th avenue north of Cabrillo. Each house will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner's name not given. Location, 11th avenue, Sunset District. Will contain seven rooms, bath and basement garage. Interior finish birch and gum with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Tile bath room. Automatic water heater. Exterior covered with brick veneer and cement plaster. Plans complete and figures being taken.

RESIDENCES—6, 2 story and base, frame, $6,000 to $10,000. San Francisco. Architect, E. P. Antonovich, Monadnock Bldg., S. F. Owner's name withheld. Location, Claremont Court. Will contain from seven to ten rooms with two and three baths. Furnace heat, hot water supply and open fire places. Mantels tile and brick. Bath rooms tile. Separate garages. Interior finish pine, hardwood and white enamel. Hardwood floors. Exteriors covered with cement plaster. Plans being prepared.

RESIDENCES—9, 2 story and base, frame, $3,000 to $5,000. San Francisco. Architect, H. R. Schultz, 28th avenue and Lake street, S. F. Owners, Allen & Co., 128 Montgomery street. Location, 28th avenue near California. These houses are first unit of over 100 modern homes to be erected in this district. They will contain from five to seven rooms with basement garage and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owners, Johns Bros., 1903 Baker street, S. F. Location, east 24th avenue south of Geary. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, James P. Fletcher, Russ Bldg., S. F. Location, south Balboa east of 21st avenue. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. San Francisco. Architect, none. Owner, Edward F. Helms, 4303 Capp street, S. F. Location, south Santa Ynez east of Delano. Will contain six rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, A. Harrington, 10 Judah street, S. F. Location, east 22nd avenue south of Geary. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base.

STREET IMPROVEMENTS—Cost not stated. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The San Francisco Board of Public Works has directed the Secretary to advertise for bids for the following street work: Judah, from 17th to 18th; bids close April 5th. Hudson avenue, from Railroad to Mendell; Rhode Island, from 25th to Army; Elsie, from Esmeralda to Winfield; and Bay View, from Railroad to Flora. Bids on all the above close April 12th.

SCHOOL—1 story and base, frame and plaster, $23,000. San Francisco. Architect, City Department of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Location, Tompkins between Folsom and Banks. Will contain eight class rooms, two in the basement and six on the main floor. Interior finish pine with maple floors. Central heating system, oil burning equipment and vacuum cleaning. Exterior covered with cement plaster. Plans 90 per cent complete and bids to be called for shortly.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, none. Owner, Mrs. Flora Flynn, 546 Webster street, S. F. Location, west 2nd avenue south of Cabrillo. Will contain two modern flats of five and six rooms. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Basement garage. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

FLAT ALTERATION—2 story and base, frame, $2,500. San Francisco. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, Dr. Giannini. Location, south Pacific east of Leavenworth. Work will consist of raising the building and constructing stores on the ground floor. New interior trim, plastering, painting, plumbing and electric work will be required. Exterior will be faced with cement plaster. Plans are complete and work will be done by Day Labor.

FLATS—2 story and base, frame, $7,500. San Francisco. Architect, none. Owner, Sidney Walker, 1616 Oak street, S. F. Location, east Central avenue north of Hayes. Will contain four modern flats of five and six rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Basement garage. Automatic water heaters. Bath rooms tile and composition. Exterior faced with cement plaster and rustic. Plans complete and work to be done by Day Labor.

FLAT ALTERATIONS — 2 story, frame, $2,500. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, Louis De Martini. Location, southeast Grant avenue and Filbert street. Work will consist of adding a second and third story, new interior finish, plumbing, plastering, electric work and painting. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

HOTEL AND STORES—3 story and base, brick and steel, $25,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., L. A. Owners, Vayssie Bros. Location, Post and Polk streets. Will contain five stores on the ground floor and a

total of 45 rooms and a number of baths on the upper floors. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning furnace and hot water supply. Patent store fronts. Marble and tile bases. Bath rooms tile. Exterior faced with pressed brick and cement plaster. Plans complete and figures being taken.

FURNISHING PILES—Cost not stated. San Francisco. Engineer, State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be received April 13th at 11 a. m. for furnishing Douglas fir piles for use on the San Francisco waterfront. The contract is to run for from one to three years.

WAREHOUSE—5 or 6 story and base, reinforced concrete, $250,000. San Francisco. Engineers, MacDonald & Kahn, Rialto Bldg., S. F. Owners, Zellerbach Paper Co. Location, Montgomery and Francisco, covering an area of 137 by 298 feet. Construction fireproof. Interior finish pine. Elevators and conveyors, automatic sprinkler system. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

FACTORY—3 story, frame and corrugated iron, $40,000. San Francisco. Architect's name not given. Owners, Rudgear-Merle Co., 198 Bay street, S. F. Location, northeast corner of Bay and Powell streets. Will cover a large area. Interior rough. Concrete and pine floors. Special machinery. Automatic sprinklers. Exterior shiplap and corrugated iron Plans complete and figures being taken by Mr. Stienberg, 198 Bay street.

CAFETERIA TILE WORK—$5,000. San Francisco. Architect, A. F. Heide, Russ Bldg., S. F. Owners, Bancroft Estate, leased to Boos Bros. of Los Angeles. Location, 725 Market street. Work will consist of installing tile tile floor and walls. Plans complete and work to be done by Day Labor.

Contracts Awarded.

DETENTION HOME HARDWARE—$2,228. San Francisco. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Contractor, A. W. Pike, 711 Mission street, S. F. Contract price, $2,228.

FACTORY AND POWER HOUSE—2, 3 story and 1, 1 story. Class A and Class C construction. Cost not stated. San Francisco. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, Ghirardelli Co. Location, North Point street. One of the three-story structures will be used for an office building, the other for a factory, and the one-story building for a power house. Bids have been taken and are now under advisement in the office of the architect.

HARDWARE BIDS OPENED.

At yesterday's session of the Board of Public Works bids were opened for furnishing and installing finish hardware in the Juvenile Court and Detention Home. The low bid was submitted by A. W. Pike, 711 Mission street, San Francisco, at $2,288. Other bidders were:

Bennett Bros.	$2,687
Chas Brown & Son	3,400
Joost Bros.	3.250

It is probable that the contract will be awarded to A. W. Pike.

Receive Figures For Government Wharf.

Five Sets of Bids Received For First Unit of New Reinforced Concrete Wharf at Fort Baker.

Five bids were received on March 30th by the Constructing Quartermaster at Fort Mason for constructing the first unit of the large reinforced concrete wharf to be erected at Fort Baker. Grace & Bernieri, 703 Market street, presented the low bid at $12,-900. Bids will be forwarded to Washington, D. C., for formal award of contract. Following is a list of the figures received:

Fort Baker Wharf.

Tibbitts Pacific Co.	$17,200
Grace & Bernieri	12,900
Healy-Tibbitts Constr. Co.	15,892
Clinton Constr. Co.	15,800
Thomson Bridge Co.	15,783

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENTS—Cost not stated Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. The City Council has passed a resolution of intention providing for the following work: That the northern ½ of Gilman street, from a line parallel to the center line of Fleurange avenue and distant 10 feet at right angles westerly therefrom, westerly 1734 feet be graded; that a redwood curb be constructed along the curb line thereof to the official grade; that a concrete gutter three feet wide be constructed in the roadway against said curb, and that the remainder of the roadway in said portion of Gilman street be macadamized and surfaced with oil and rock screenings.

RESIDENCE — 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 2528 San Jose avenue. Each will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. W. Anderson. Location, north Walnut avenue west of Lilac. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Piedmont, Alameda Co., Cal. Architect, none. Owner, A. R. Dexter, 2212 Grove street, Oakland. Location, south Oakland avenue east of Fairview. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $1,000 each. Alameda, Alameda Co., Cal. Architect, none. Owner, E. D. Fortman, 803 Haight street, Alameda. Location, 1117½ and 1135½ Pacific avenue. Each will contain four rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 1415 Willow street. Will contain six rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $4,500. Piedmont, Alameda Co., Cal. Architect, Chester H. Miller, First National Bank Bldg., Oakland. Owner, S. P. Ward. Location, Caperton avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, William F. Neary, 1723 Telegraph avenue, Oakland. Location, east View north of Mather. Will contain five rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, Olin S. Grove, 2911 Telegraph avenue, Oakland. Owner, H. H. Gastman. Location, west Contra Costa avenue, north of Indian Rock Path. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Oakland, Cal. Architect, none. Owner, Andrew Anderson, 521 53rd street, Oakland. Location, east Patterson south of Kansas. Will contain five rooms and bath. Interior finish pine. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland Location, east Miles avenue south of Forest. Will contain five rooms, bath and sleeping

porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, George W. Nunes, 5430 Dover street, Oakland. Location, east Claremont avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,300. Oakland, Cal. Architect, none. Owner, R. H. Kelly, 2240 47th avenue, Oakland. Location, east Trask north of Foothill Boulevard. Will contain five rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Charles D. Hart, 615 22nd street, Oakland. Location, east 38th avenue north of Kanning. Will contain five rooms and bath. Interior finish pine throughout. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, Emma Coburn, 2470 East 28th street, Oakland. Location, south Madeline west of Laurel. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, H. S. Butler, 5648 Oak Grove avenue, Oakland. Location, southeast corner Claremont and Pedestrian Way. Will contain six rooms, bah and sleeping porch. Interior finish pine, gum and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,200. Oakland, Cal. Architect, none. Owner, Alvin J. Stern, 306 14th street, Oakland. Location, Pleasant street and Fruitvale avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, west Bay View north of East 28th. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, H. C. Pfrang, 320 Forest street, Oakland. Location, east Desmond south of Clifton. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base frame, $4,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. E. Stubbe, 1108 Grand avenue, Oakland. Location, east The Alameda. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,100. Oakland, Cal. Architect, none. Owner, H. C. Pfrang, 320 Forest street, Oakland. Location, west Mills avenue north of Forest. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—4 story and base, brick and steel, $100,000. Oakland, Cal. Architect, Alvin J. Stern, 306 14th street, Oakland. Owners, Coit Investment Co Location, west Harrison north of 14th. Will contain a number of two, three and four room apartments with private baths and wall beds. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning system. Bath rooms tile. Marble and tile wainscot. Dumb waiters. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and construction to be carried on under the direction of F. Muller, Syndicate Bldg. Subfigures being taken by the architect.

APARTMENT HOUSE—3 story and base, brick, $40,000. Oakland, Cal. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest 2nd and Telegraph. Will contain two and three room apartments with wall beds and private baths. Interior finish pine and elm with some white enamel. Hardwood floors. Steam heat and oil burning plant. Hot water system. Bath rooms composition floor and tile wainscot. Marble and tile wainscot. Exterior faced with pressed brick. Plans are complete and figures will be called for in about a week.

APARTMENT HOUSE—1 story and base, frame, $6,000. Oakland, Cal. Architects, J. C. and M. L. Newsom, 1718 Broadway, Oakland Owner, Charles Short. Location, 12th and Brush Sts. Will contain four small apartments. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. Morser, Courtland and Walnut avenue, Oakland. Location, north Walnut east of Courtland. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL—2 story and base, brick, steel and concrete, $90,000. Alameda, Alameda Co., Cal. Architects, Carl Werner and Charles E. J. Rogers, Phelan Bldg., S. F. Owners, City of Alameda. Location, Alameda between Oak and Walnut streets. Will contain 20 rooms besides an auditorium seating 1200 people. Interior finished in pine and maple. Tile and marble wainscot. Granite base. Steam heat, oil burning plant, vacuum cleaning and ventilating. Exterior faced with plaster brick. Plans complete and figures to be opened on April 25th. Plans can be secured from the architects' office or from the Clerk of the Board of Education, Alameda City Hall. $10 deposit required. Work is segregated into the following departments: (1) Excavating, grading, concrete work, brick and granite work; (2) carpentry, mill work, galvanized iron work, roofing, glass, hardware, stairs and patent flues; (3) iron work, plain and ornamental, structural steel, post caps, bases, anchors, etc; (4) plumbing, gas fitting, marble work and vacuum piping; (5) electric work; (6) lath and plastering, ornamental plaster and cement plastering; (7) painting and kalsomining; (8) heating and ventilating. On departments 1, 4, 5, 6 and 8 contractors are allowed three days for figuring. One departments 3 and 7 allowed two days and department 2 seven days.

FACTORY—3 story and base, reinforced concrete. Cost not stated. Oakland, Cal. Architect, A. W. Smith, 1010 Broadway, Oakland. Owner, E. R. Tutt, leased to Western Casket Co. Location, Tenth and Harrison streets, covering an area of 100 by 160 feet. Interior finish pine. Concrete and pine floors. Metal window sash and frames and fireproof doors. Elevator service. Special machinery. Exterior faced with cement plaster. Plans being prepared.

GARAGE—1 story and base, brick and steel, $25,000. Oakland, Cal. Architect, none. Owner, Edward Somarstrom, 202 East 12th street, Oakland. Location, east Broadway between 28th and 29th stretts. Designed for a commercial garage. A large mezzanine floor will be provided. Interior finish pine. Cement floor. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared and work to be done by Day Labor.

CREAMERY—2 story and base, frame, $4,500. Oakland, Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Fenton Creamery. Location, 4099 Howe street. Will contain sales rooms and office. Interior finish pine and tile. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET IMPROVEMENTS—Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, City Engineer, San Jose. Owners, City of San Jose. The following action was taken at the last meeting of the City Council relative to street improvements: Resolutions of intention to pave the crossings of San Fernando street at Ninth street and at Fourth street were given a second reading and adopted. Upon motion made by Councilman Bernhardt, curbs, gutters and sidewalks will be ordered in on Home street between Delmas and Martin on the south side of the street. A second notice for the owners of property on Fuller avenue between Bird and Delmas streets will be sent ordering them to put in curbs and gutters. Plans and specifications for the paving of the streets around the city hall will be drawn up by the City Engineer and presented at the next meeting. Plans and specifications for the improvement of 8th street from San Salvador to William street were filed by the City Engineer and accepted.

STREET IMPROVEMENT—$35,047.01. Santa Clara, Santa Clara Co., Cal. Engineer, City Engineer, Santa Clara. Owners, City of Santa lara. The Town Trustees opened bids at their last meeting for the paving of the San Francisco road from Scott's lane to Lincoln and south on Lincoln street to Lexington street and west to the limits of the town on the Homestead road, and Franklin street from Lincoln to Jefferson street, and Grant street from Franklin to The Alameda and south on that thoroughfare to the limits of the town. The following bids were opened: Eaton & Smith, of San Francisco, $38,847.84; Grace & Bernieri of San Francisco, $39,509.17; Ransome-Crummey Co., $37,148.65; W. A. Dontanville of Salinas, $37,345.54; Marin Rock Co., $41,928; Fay Improvement Co., $35,483; Paul & Caldwell, $43,167; Clark & Henery, $37,097.17; Raisch Improvement Co., $37,184.17; Blanchard, Brown & Co., $39,494.46; City Street Improvement Co., $35,047.01; J. W. McDonald & Co., $38,127.33; Teichert & Son, $43,572; Johnson-Shea Co., $40,972.88; McGillicrey Construction Co., $37,565.25; E. H. Sundburg, $30,985. The contract was awarded to the City Street Improvement Co., Whittell Bldg., S. F., for the sum of $35,047.01.

STREET IMPROVEMENT—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. At the last meeting of the City Council the plans and specifications for the improvement of John street, from the east line of South Main street, to the west line of Front street with hydraulic four-inch concrete base and two-course asphaltic surface, were adopted. It is probable that bids on this work will be called for at the next meeting. Plans were also ordered at the same meeting for the improvement of Gabilan street, from Monterey street to California street; Stone street received a similar resolution. Further mention will be made of this work.

PUMP—Cost not stated. Sunnyvale, Santa Clara Co., Cal. Engineer, Town Engineer F. P. McCray, Sunnyvale. Owners, Town of Sunnyvale. At the regular meeting of the Board of Trustees of the town of Sunnyvale, Town Engineer F. P. McCray was instructed to draft plans and specifications for a booster pump at the municipal water plant to serve as a basis for advertisement for bids. Further mention will be made of this work.

STREET WORK—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz Owners, City of Santa Cruz. Soquel avenue, from Cayuga street to Arana gulch, is to be macadamized and sewer and sidewalk work completed. Resolutions to this effect were passed by the City Council at the last meeting. The asphalt pavement of the City Street Improvement Co. is called for in the specifications. Further mention will be made of this work when bids are called for.

STORE—3 story and base, brick, $20,000. Palo Alto, Santa Clara Co., Cal. Architect, Arthur S. Heineman, San Fernando Bldg., L. A. Owner, Ernest Wilson Co., Palo Alto. Designed for a candy factory and store. Interior finish pine, tile and ornamental plaster. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and in the hands of the owner who will let all contracts.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENTS — $15,853.68. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. All bids received by the Trustees for street work on Central avenue, North and West streets were rejected, owing to protests of property owners. Only two bids were received: City Street Improvement Co., $16,166.47, and Blake Bros., $15,377.78. The engineer's estimate on the work was $15,853.68. It is probable that a new call for bids will be issued when the Trustees hear further from the property owners interested.

ROAD CONSTRUCTION — Cost as follows. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Bids were opened Monday, March 27th for 7 miles 500 feet of concrete road in Contra Costa County, known as Division No. 2 of Tunnel Road. The City Street Improvement Co., 166 Geary street, S. F., were the lowest bidders and the job awarded to them. The following is a complete list of the bidders. Item 1 is concrete per cubic yard, No. 2 for line excavation per cubic yard and No. 3 for parapets per cubic yard: City Street Improvement Co., (1) $6.78; (2) 75c; (3) 10c. S. S. Abrams, (1) $6.80; (2) $1.00; (3) $1.00. O'Brien Bros., (1) $6.92; (2) 5c; (3) 20c. Blanchard & Ehrhardt, (1) $7.09; (2) 25c; (3) 50c. Jas. W. Willison, (1) $7.24; (2) 85c; (3) 15c. Raisch Improvement Co., (1) $7.25; (2) 75c; (3) 50c. Johnson Shea, (1) $7.30; (2) 50c; (3) 50c. McCrea & Layaz, (1) $7.30; (2) 80c; (3) 50c. W. J. Schmidt, (1) $7.40; (2) 50c; (3) 75c. V. M. Price, (1) $7.70; (2) 75c; (3) 50c. Marin Rock Co., (1) $7.76; (2) $1.00; (3) $1.00. Peterson & Grier, (1) $7.95; (2) 85c; (3) 85c. A. J. and J. L. Fairbanks, (1) $7.96; (2) 50c; (3) 50c. Spring Construction Co., (1) $7.99; (2) 50c; (3) 50c. W. A. Dontanville, (1) $8.10; (2) 50c, (3) 50c. Worswick Construction Co., (1) $8.25; (2) 50c, (3) 50c.

DRAINAGE SYSTEM—$2,758. Vallejo, Solano Co., Cal. Engineer, City Engineer T. D. Kilkenny, Vallejo. Owners, City of Vallejo. The sewer system which is to be constructed for the purpose of draining the southeastern section of the city will cost $2,758.75, according to the estimate of cost submitted to the City Council. The plans and diagram prepared by the City Engineer were approved and adopted, and a resolution of intention to construct the sewer system adopted. The sewer is to be laid in Solano avenue, Maine, Chase and Eighth streets, and will drain much property that at present does not enjoy the benefits of a sewer system. Further mention will be made of this work.

SEWER CONSTRUCTION—Cost not stated. San Anselmo, Marin Co., Cal. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. The Town Trustees have instructed the Town Engineer to prepare plans and specifications for the sewering of the Short ranch. Further mention will be made of this work.

STREET IMPROVEMENTS—Cost not stated. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. The City Council has passed a resolution of intention providing for the following street work: That the roadway on Laurel street from the westerly line of Grant avenue to the easterly line of Even street, including therein all intersections and terminations between said limits except the intersections of Union and Laurel streets and Franklin and Laurel streets, be graded to its full width and that cement concrete curbs be constructed on both sides of said roadway between said limits. Also that the roadway be paved with two-course asphalt macadam, consisting of crushed rock six inches in depth after its final rolling and asphaltum with a penetration between 101 and 150 degrees, District of Columbia standard. All said work to be based on the official lines and grades. Bids will be called for at the April meeting.

SEWER CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. At the last meeting of the City Council a week's time was given the sewer committee and City Engineer H. D. Chapman to inspect the plans and specifications for the proposed sewer on north 7th street. Further mention will be made of this work.

RESIDENCE — 2 story and base, frame, $3,700. Richmond, Contra Costa Co., Cal. Architects, Schirmer & Bugbee Co., Dalziel Bldg., Oakland. Owner, Mrs. Hanna. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Furnace heat. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCES—6, 1 story and base, frame, $15,000. Richmond, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner's name withheld. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster.

Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $4,500. Martinez, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, J. E. Colton. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—1 story, frame, $4,500. Pinole, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owners, Pinole School District. Will contain two class rooms. Interior finish pine. Exterior covered with shiplap. Plans being prepared.

HOTEL—2 story and base, frame, $5,000. Pinole, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner's name withheld. Will contain a number of single rooms and several public baths. Hot water supply. Composition floors in the bath rooms. Exterior covered with shiplap. Plans complete and figures being taken.

Bids Received For Tunnel Road Work.

Contra Costa County Supervisors Award Big Road Contract to City Street Improvement Co.

(By Special Wire.)

Bids were opened Monday, March 27, for 7 miles 500 feet of concrete road in Contra Costa County, known as Division No. 2 of Tunnel Road.

The City Street Improvement Co., 166 Geary street, San Francisco, were the lowest bidders and the job awarded to them.

The following is a complete list of bidders:

Item No. 1 is for concrete per cubic yard. No. 2 for Line Excavation per cubic yard, and No. 3 Excavation for parapets, per cubic yard.

Bidder	No. 1	No. 2	No. 3
City Street Imp. Co...	$6.78	$ .75	$ .40
S. S. Abrams.....	6.80	1.00	1.00
O'Brien Bros.	6.92	.05	.20
Blanchard & Eberhart	7.09	.25	.50
Jas. Willison.....	7.24	.85	.45
Raish Imp. Co.....	7.25	.75	.50
Johnson Shea	7.30	.50	.50
MaCrea & Layaz.....	7.38	.80	.50
W. J. Schmidt.....	7.49	.50	.75
V. M. Price.....	7.70	.75	.50
Marin Rock Co.....	7.76	1.00	1.00
Petersen & Grier....	7.95	.85	.85
A J & J L Fairbanks..	7.96	.50	.50
Spring Constr. Co....	7.99	.50	.50
W. A. Dontonzelle....	8.10	.50	.50
Worswick Constr. Co.	8.25	.50	.50

The average bid on Item No. 1 is $7.49

Contra Costa County is planning for 10 miles more of concrete road. This work will not be taken up until latter part of the year. Preliminary grading will be done, however, before that time.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

STREET IMPROVEMENT—Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Owners, City of Modesto Plans have been approved and bids have been ordered received for the following street improvement: That McHenry avenue, from the northerly property line of Needham street northerly to the center line of Stoddard avenue, in the city of Modesto, be graded and paved to the official grade with asphalt concrete pavement 4 inches in thickness, a foundation course 2½ inches in thickness and a wearing surface 1½ inches in thickness, and curbed with cement concrete, curbing, and to further construct cement concrete gutters. Bids on this work close April 12th at 5 p. m. Plans may be had from the City Clerk at Modesto.

SEWER CONSTRUCTION—$500,000. Fresno, Fresno Co., Cal. Engineers, Olmstead & Gillelen, L. A. Owners, City of Fresno. With the approval of the City Council, Mayor Snow arranged to sign a contract with Frank H. Olmstead, of the firm of Olmstead & Gillelen of Los Angeles, as consulting engineers for plans of the proposed half million bond issue for a new sanitary sewer system and storm sewers.

STREET PAVING AND SEWERS—Cost not stated. Turlock, Stanislaus Co., Cal. Engineer, City Engineer, Turlock. Owners, City of Turlock. The City Council has accepted specifications and adopted resolutions of intention for the paving of Leader avenue, from the end of the present pavement to the city limits, and the grading, oiling and curbing of Park and Flower streets. The Lander avenue work will be cement concrete to conform to the state highway construction. The City Engineer was instructed to prepare plans and estimates of cost for a sewer on Park street.

STREET IMPROVEMENTS—Cost not stated. Fresno, Fresno Co., Cal. Engineer, City Engineer, Fresno. Owners, City of Fresno. The City Council has passed "notices of street work" as follows: That Poplar avenue in the city of Fresno, from the north line of Belmont avenue to the south line of Englewood avenue, be graded, curbed, except such portions of said avenue as are already curbed, to the official grade with concrete curbing, oiled and macadamized, according to the specifications set forth in Ordinance No. 714 of the city of Fresno, and adopted by the Board of Trustees, excepting that twenty pounds of crushed rock per square foot and two gallons of oil per square yard shall be used, and that 6 by 24 inch corrugated iron culverts shall be substituted for brick and wood culverts; all said work to be done to the official grade and in accordance with the aforesaid specifications on file in the office of the City Clerk of the City of Fresno: two culverts to be constructed with connecting branches, one on each side of Bremer avenue. Further mention will be made of this work.

STREET IMPROVEMENT—Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Owners, City of Modesto. The City Council at its last meeting passed a resolution ordering the calling for bids on the new pavement for McHenry avenue, from Needham and Annie streets to Stoddard. Plans may be had from the City Clerk at Modesto.

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owner, F. E. Lawrence, 2828 Thomas avenue, Fresno. Location, Belmont and Fresno streets. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

LIGHTING SYSTEM—$32,400. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. An electrolier system of lighting as planned by the Bakersfield Chamber of Commerce, is being considered by the City Council. The Council is in favor of installing the system. It is probable that some action will be taken within the next few days. W. D. Ryan, of the General Electric Co., is taking an active part in having the proposed system installed.

SCHOOL—1 story and base, brick and frame, $20,000. Bakersfield, Kern Co., Cal. Architect, Orville L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Location, Union and Truxton streets. Will contain six class rooms. Interior finish pine and maple. Central heating system. Exterior covered with cement plaster. Plans being prepared.

CHURCH—1 story and base, brick, $15,000. Selma, Fresno Co., Cal. Architect, Robert H. Orr, Van Nuys Bldg., L. A. Owners, First Christian Church. Designed with both inside and open air pulpit, main auditorium, Sunday school rooms and pastor's study. Interior finish pine and ornamental lath. Central heating system. Exterior covered with cement plaster. Plans complete and figures to be called for in ten days.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

RESIDENCE — 1 story and base, frame, $2,000. Sacramento, Cal. Architect, none. Owner, Charles Hansen, 114 22nd street, Sacramento. Location, Olno avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Sacramento, Cal. Architect, none. Owner, A. K. Klingman, 709 Monte Clair avenue, Sacramento. Location, Monte Clair avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Sacramento, Cal. Architect, none. Owner, Carl Kock, 3330 Carnell avenue, Sacramento. Location, 1036 Clark avenue. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantel. Exterior covered with cement plaster. Plans complete and

work to be done by Day Labor.

RESIDENCES—3, 2 story and base, hollow tile. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, none. Owner, C. M. Long, 731 North Harrison street, Stockton. Location, Oak and Stockton streets. Each dwelling will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET PAVING—Cost not stated. Eureka Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. A mass meeting called by A. C. Root, street building expert, resulted in property owners and citizens favoring the paving of the main thorofares leading into Eureka. It is proposed to pave from 20 to 24 feet in width, and is to be composed of asphalt and concrete; a five-inch base of the latter and one and one top of the former. Further mention will be made of this work.

DIKE CONSTRUCTION — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until April 11th for the construction of a dike for road purposes through the mud flats near Arcata in Road District No. 5 in said Humboldt County.

STREET IMPROVEMENTS—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The City Commission has passed resolutions of intention providing for the following work: That 33rd street, from the north line of Y street to the north line of Cypress avenue, be improved by removing and disposing of all surplus material; constructing concrete curbs, concrete gutters, placing cast iron gutter drains with 6-inch vitrified ironstone sewer pipe elbows; constructing concrete manholes, complete, with cast iron curbs and covers; constructing 6-inch vitrified ironstone sewer pipe drains; reconstructing one concrete manhole; grading the space between the property line and curb; constructing concrete sidewalk 6 feet in width and 3½ inches in thickness; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches in thickness. That 22nd street, from the south line of B street to the north line of Y street, be improved by grading the area between the property line and curb, constructing concrete sidewalk 6 feet in width and 3½ inches in thickness.

WATER PIPE—Cost not stated. Redding, Shasta Co., Cal. The City Clerk has been instructed to advertise for bids for supplying 400 feet of 4-inch standard galvanized pipe for the water main on the south extension of the Fourth street line. Further information may be had from the City Clerk.

APARTMENT HOUSE—2 story and base, frame. Cost not stated. Redding, Shasta Co., Cal. Architect, C. C. Dakin, First National Bank Bldg., Oakland. Owner, E. Reid. Location, corner of Butte and East streets. Will contain six apartments of two and three rooms. Interior finish pine and redwood. Some hardwood floors. Steam heat and a hot water system. Bath rooms composition floors. Exterior covered with cement plaster. Plans being prepared.

ROAD CONSTRUCTION — Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on April 11th for the building of a new road in Capell, from Berryessa road down the valley to Galbreath's.

SCHOOL—2 story and base, brick and concrete. Cost as follows. Red Bluff, Tehama Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Red Bluff Union High School District. A contract for the general construction has been awarded to James L. McLaughlin, 244 Kearny street, S. F., for $69,900. The following three low bids were received: McLeran & Peterson, Sharon Bldg., S. F., bid $66,665 for a cement finished building and $69,900 for pressed brick. James L. McLaughlin, 244 Kearny street, S. F., bid $69,190 for pressed brick. Welch Bros. & Hanneman, Oakland and Grass Valley, bid $68,890 for pressed brick, but an error in their bid may disqualify it. On the heating and ventilating, R. W. Eaton, Red Bluff, presented the low figure for steam heating at $9,500, and W. Morgan, S. F., the low figures for a blower system and also for furnace heat at $7,875 and $6,875. R. W. Eaton, Red Bluff, presented the low figure for electric work at $2,400, with C. C. Cowles, also of Red Bluff, second low at $3,385.

HOTEL ADDITION—2 story and base, brick and frame, $7,000.. Corning, Tehama Co., Cal. Architect, Chester Cole, Chico. Owners, Gus and Otto Liersch, Corning. The addition will contain 18 rooms and several baths. Interior finish pine and redwood. Hot water supply. Bath rooms will have composition floors. Exterior will be faced with cement plaster. Plans complete and figures being taken.

ARMORY—1 and 2 story and base, reinforced concrete. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Fireproof construction. Will contain drill rooms, offices and social rooms. Interior finish pine and hardwood with maple floor in the drill rooms. Steam heat, hot water supply. Exterior faced with pressed brick. Plans complete and figures being taken. Bids will be opened on May 2nd at 12, noon. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

CITY HALL ALTERATIONS—2 story and base, brick and frame, $5,000. Roseville, Placer Co., Cal. Architect, none. Owners, City of Roseville. Work will consist of interior alterations, new partitions, interior trim, plumbing and electric work. Plans are complete and figures will be called for at once.

TWENTY-TWO APRIL 1 HOYT

HOTEL—2 story and base, brick, $30,000. Amador City, Amador Co., Cal. Architect, T. D. Voorhees, Central Bank Bldg., Oakland. Owner's name withheld. Will contain 40 rooms and several baths besides lobby and offices. Interior finish pine and redwood. Bath rooms composition floors. Steam heat and hot water supply. Exterior covered with pressed brick. Plans being prepared.

HOSPITAL WARD—2 story and base, reinforced concrete and hollow tile, $40,000. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. Harvey A. Klyce, Sheldon Bldg., S. F., presented the low figure for constructing the new ward building at the Sacramento County Hospital at $40,482. The bids of the three lowest men were taken under advisement. A complete list of the bids will be found under the heading of Sacramento and Northern California in this issue.

HOSPITAL COTTAGES—2, 1 story and base, concrete and frame. Cost as follows. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. A complete list of the bids received for the construction of two buildings at the Stockton State Hospital appears under the heading of Sacramento and Northern California in this issue.

HOSPITAL DUMB WAITERS—$6,800. Talmage, Mendocino Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Burdett-Rowntree Mfg. Co., of San Francisco, submitted the only bid for an electric elevator and dumb waiter for Mendocino State Hospital at Talmage for $6,800. Their bid ran over the appropriation by $100. Same was referred to the State Architect.

Bids Received For Two Stockton Jobs.

Eighteen Bidders Each Present Figures For Cottages at Stockton State Hospital.

(By Special Wire.)

Thirty-six sets of figures were opened Monday, March 27, at Sacramento for frame and concrete cottage for males at the Stockton State Hospital and a similar building for females.

Geo. W. Boxton & Son, Hearst Bldg., San Francisco, was the lowest bidder on the building for females at $20,196, and Louis Cereghino, 180 Jessie Street, San Francisco, was lowest bidder on building for males at $20,264

The following is a complete list of bidders:

Bidder	Bldg. for Males	Bldg. for Females
L. Cereghino & Son....	$20,264	$20,300
Geo. W. Boxton & Son..	20,396	20,196
B. T. Owsley.....	20,997	21,429
Neil McLean	22,200	22,200
Carnahan & Mulford...	22,304	21,190
Anderson & Ringrose...	22,740	22,240
McLeran & Peterson....	23,177	22,550
L. G. Bergren.....	23,509	22,563
H. A. Klyce.....	24,262	24,262
Teichart & Ambrose....	24,650	24,200
E. W. Book.....	24,696	24,192
Frank Robinson	24,886	24,121
W. E. Kier Constr. Co...	24,969	24,669
M. G. Zelinsky.....	25,479	25,436
J. Furlong	26,650	26,450
F. L. Hansen.....	27,715	27,515
F. Mulcahy	29,680	29,680
Val Franz & Son.....	29,780	29,650

The average bid for Building No. 1 (Males) is $24,353, and for Building No. 2 (Females) is $24,046.83. The bids were taken under advisement.

Bids Received For Bank Screens.

Bids Opened By State Department of Engineering for Bank Screens and Railing in Treasurer's Office.

(By Special Wire.)

SACRAMENTO, Cal., March 29th, 1916—Bids were opened at the State Department of Engineering for furnishing and installing bank screens and railings in the office of the State Treasurer in the Capitol Building. Fink & Schindler, 226 13th street, San Francisco, presented the low figure at $1,095. Bids were taken under advisement until the next meeting. A complete list of the bids folow:

Bank Screens and Railings.

Fink & Schindler, S. F.	$1,095
T. H. Meek, S. F.	1,212
Siller Bros., Sacramento	1,245
American Fixture Co.	1,400
McSheehy Bros., S. F.	1,591
Monarch Iron Works, S. F.	1,790
W. G. West Co., S. F.	1,821
Rudgear Merle, S. F.	2,218

Bids Received For Red Bluff School.

Award of Contract Lies Between James L. McLaughlin and McLeran & Peterson of San Francisco.

(By Special Wire.)

RED BLUFF, Tehama Co., Cal. March 28th, 1916—Fifteen sets of figures were opened tonight by the Board of Trustees of the Red Bluff Union High School District for the construction of a two-story brick and concrete addition to the Union High School, designed by Architect W. H. Weeks of San Francisco. All bids were taken under advisement.

McLeran & Peterson, Sharon Bldg., San Francisco, bid $66,665 for a cement finished building and $69,900 for pressed brick.

James L. McLaughlin, 244 Kearny St., San Francisco, bid $69,190 for pressed brick.

Welch Bros. & Hanneman, Oakland and Grass Valley, bid $68,890 for pressed brick but an error in their bid may disqualify it.

On the heating and ventilating, R. W. Eaton, Red Bluff, presented the low figure for steam heating at $9,500 and W. Morgan, San Francisco, the low figures for a blower system and also for furnace heat at $7,875 and $6,875.

R. W. Eaton, Red Bluff, presented the low figure for electric work at $2,400 with C. C. Cowles, also of Red Bluff, second low at $3,385.

LOS ANGELES & SOUTHERN CALIFORNIA.

RESIDENCE—2 story and base, hollow tile. Cost not stated Altadena, Los Angeles Co., Cal. Architects, Buchanan & Brockway, Chamber of Commerce Bldg., Pasadena. Location, Los Flores Ranch. Will contain 12 rooms, three baths and sleeping porches. A number of out buildings, including a large garage, will also be erected. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably furnace heat, hot water circulating system and vacuum cleaning. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

RESIDENCE—2 story and base, hollow tile, $50,000. San Fernando, Los Angeles Co., Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Merritt H. Adamson. Location, San Fernando Valley. Will contain 20 rooms, five baths and conservatory. Interior finish hardwood and white enamel. Hardwood floors throughout. Bath rooms tile and equipped with showers. Steam heat, oil burning pant and vacuum cleaning. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and ready for figures.

HIGHWAY CONSTRUCTION — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Supervisors at their last meeting directed the County Clerk to advertise for bids for the building of that section of the highway between Santa Paula and Fillmore, a distance of a fraction over 8 miles. This road is to be of concrete, 16 feet wide and 4 inches thick, and is one of the more important sections of the system. Plans may be had from the County Clerk.

MUNICIPAL LIGHTING PLANT — Cost not stated. Ventura, Ventura Co., Cal. Engineer, none. Owners, Town of Ventura. The first step toward a municipal ownership of an electric lighting plant was taken by the City Trustees when a committee was appointed to secure plans and specifications for a municipal electric light plant, suitable for the lighting of Ventura. Further mention will be made of this work when a report is rendered by the committee.

RESERVOIRS, ETC.—Cost not stated. Riverside, Riverside Co., Cal. Engineer's name not given. Owners, University of California. Bids will be received until April 10th for the construction of a 55,000 gallon reinforced concrete, a 160,000 gallon oiled lined earth reservoir, about 4,400 feet of main irrigation pipe lines, about 2,420 feet of domestic water supply and miscellaneous piping, two pump houses and miscellaneous construction for the new citrus experiment station at Riverside.

APARTMENT HOUSE—6 story and base, reinforced concrete, $100,000. Los Angeles, Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, Dr. T. N. Jamieson. Location, Euclid avenue near Colorado, covering an area of 75 by 100 feet. Besides a large dining room, occupying the entire second floor, the building will contain two and three room apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and automatic elevators. Hot water supply. Bath rooms tile. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

APARTMENT HOUSE—4 story and base, brick. Cost not stated. Los Angeles, Cal. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. O. Head. Location, Hartford avenue between 7th and 8th, covering an area of 50 by 100 feet. Will contain a number of two and three room apartments with private baths and wall beds. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Automatic elevator. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Harold B. Dunn, Van Nuys Bldg., L. A. Owner, G. L. Grenshaw. Location, Lafayette Square. Will contain 15 rooms and four baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile and equipped with showers. Steam or hot water heating system and hot water circulating system. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

RESIDENCE — 2 story and base, frame, $20,000. Los Angeles, Cal. Architects, Atlas Building Co., Haas Bldg., L. A. Owners, Atlas Bldg., Co. Location, Occidental Boulevard. Will contain 12 rooms and three baths, sleeping porches and conservatory. Interior finish hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile and equipped with showers. Hot water circulating system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. Pasadena, Los Angeles Co., Cal. Architects, Foss Designing Co., 100 East Colorado street, L. A. Owner, W. D. Card. Location, Wentworth avenue near Oak Knoll. Will contain 16 rooms and three baths. Sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water system and open fire places. Mantels tile and brick. Bath rooms tile. Exterior covered with rustic and cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. Pasadena, Los Angeles Co., Cal. Architects, Marston & Van Pelt, Chamber of Commerce Bldg., L. A. Owner's name withheld. Location, East Pasadena. Will contain 15 rooms and five baths. Sleeping porches and conservatory. Interior finish pine and hardwood with white enamel in the bath rooms. Hardwood floors. Furnace heat and hot water system. Vacuum cleaning. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

STREET IMPROVEMENTS—Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be opened on April 17th for certain improvement work on Coast Boulevard from El Segundo to Venice city limits, in Road District No. 4. Also certain improvement work on portion of Pico Boulevard in Road Districts Nos. 3 and 4.

ROAD CONSTRUCTION — $21,125 Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. New bids will be opened on April 10th for improving 1.51 miles of Artesia avenue, from Palo Verde avenue to Main street near Azusa, in Road

mprovement District No. 61. The con-act was previously awarded to the ast Construction Co. at $18,572, but ey withdrew their bid. The road mmissioner's estimate of cost is $21,-5. The approximate quantities in-de 4,500 cubic yards of excavation, 96 lineal feet of shaping road bed, 00 pounds of steel, 582 tons of sand, 15 tons of stone, 17 tons of screen-gs, 202 barrels of asphaltic oil, 8,178 ns of disintegrated granite, 6,050 eal feet of expansion joints, 16,880 uare yards of concrete pavement, d 1,770 barrels of cement to be fur-shed by the County. The estimated st is $21,425. Also 116 cubic feet nerete culverts.

SCHOOL—1 story and base, concrete, 0,000. Placentia, Orange Co., Cal. chitect, Fred H. Ely, Register Bldg., nta Ana. Owners, Placentia School strict. Will contain six class rooms d an assembly hall. Interior finish ne. Maple floors. Steam heat and l burning system. Modern school umbing. Exterior faced with cement aster. Plans being prepared.

SCHOOL—1 story and base, brick, 1,000. Oxnard, Ventura Co., Cal. Ar-itects, Allison & Allison, Hibernian dg., L. A. Owners, Oxnard School istrict. Will contain six class rooms d an auditorium seating 600 people. terior finish pine with maple floors. entral heating system, probably steam at with oil burning furnace. De-gned for future additions and will ve a frontage of 190 feet. Exterior ced with pressed brick and cement aster. Plans being prepared.

SCHOOL DORMITORIES—2, 1 story d base, brick. Cost not stated. untington Park, Los Angeles Co., Cal. chitects, Edelman & Barnett, Black dg., L. A. Owners, Jewish Orphans' ome Association. Each building will ver an area of 61 by 83 feet. Inte-or finish pine with maple floors. team heat and hot water system. omposition floors in bath rooms. Ex-erior faced with pressed brick. Plans omplete and bids being taken.

SCHOOL—1 story and base, brick nd hollow tile. Cost not stated. Vic-orville, San Bernardino Co., Cal. Ar-hitect, Lester H. Hibbard, Marsh-trong Bldg., L. A. Owner, Victorville chool District. Designed for high chool purposes. Interior finish pine ith maple floors. Central heating ystem. Modern school plumbing. Ex-erior faced with cement plaster. Plans omplete and figures to be called for hortly.

HOTEL—3 story and base, brick. ost not stated. Los Angeles, Cal. Ar-hitects, Edelman & Barnett, Black dg., L. A. Owner, Dr. Hill. Loca-ion, Front and 5th streets, covering n area of 50 by 75 feet. Will contain oru stores on the first floor, barber hop and billiard room in the base-ent, and a total of 36 rooms and sev-ral baths on the upper floors. Interior inish pine. Steam heat, oil burning ystem and hot water supply. Com-osition floors in the bath rooms. Pat-nt store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being aken.

SCHOOL—1 story and base. Class A onstruction, $395,652. Los Angeles, al. Architect, John C. Austin, Wright nd Callender Bldg., L. A. Owners, ity of Los Angeles. Contractors, Barber-Bradley Construction Co., 1821 East 15th street, L. A., general construction, $395,628. Western Heating Co., heating and oil burning equipment, $28,628. Arthur Hess, Baker-Detwiler Bldg., plumbing, $22,518. Southern California Electric Co., electric work, $13,158. Standard Electric Time Co., Sheldon Bldg., S. F., program clocks, $1,400.

STORES AND LOFTS—3 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owners, Brown, Pallette & Brown. Location, Los Angeles street between 10th and 11th streets, covering an area of 60 by 140 feet. Will contain a number of stores and lofts. Interior finish pine and redwood. Patent store fronts. Metal window sash and frames. Exterior covered with pressed brick. Plans being prepared.

WHOLESALE BUILDING—1 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, E. P. Bosbyshell. Location, Central and Second streets, covering an area of 80 by 200 feet. Fireproof construction. Interior finish pine and tile. Patent store fronts. Automatic sprinklers. Metal window sash and frames. Elevator service and steam heat. Exterior faced with cement plaster. Plans complete and figures being taken.

ADMINISTRATION BUILDING — 2 story and base, brick, $20,000. Van Nuys, Los Angeles Co., Cal. Architect, J. J. Backus, City Hall, L. A. Owners, City of Van Nuys. Designed to house the clerical departments of the city, branch fire station and police headquarters. Interior finish pine and hardwood. Metal window sash and frames. Steam heat. Exterior faced with pressed brick. Plans complete and bids to be called for shortly.

FACTORY—1 and 2 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, J. M. Cooper, 830 McGarry street, L. A. Owners, Vorst & Berman Co., 1333 East 6th street, L. A. Location, Santa Fe and Cheny streets, covering an area of 100 by 100 feet. Interior finish pine. Metal window sash and frames. Exterior faced with cement plaster. Plans being revised.

FACTORY—3 story and base, brick. Cost not stated. Los Angeles, Cal. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owner, Mrs. M. H. Olmsted. Location, northwest corner of Pico and Los Angeles streets, covering an area of 76 by 192 feet. Designed for an automobile factory. Interior finish pine. Concrete and pine floors Elevator service. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared.

HOTEL—3 story and base, brick. Cost not stated. Los Angeles, Cal. Architects, Edelman & Barnett, Black Bldg., L. A. Owner, Dr. Hill. Location, Front and Fifth streets. Will contain four stores and a number of single rooms with and without baths. Interior finish pine. Steam heat, hot water system and patent store fronts. Marble bases. Exterior faced with pressed brick and terra cotta. Plans complete and figures being taken.

HOTEL—2 story and base, frame. Cost not stated. Waterman Springs, San Bernardino Co., Cal. Architect, B. Cooper Corbett, Union Oil Bldg., L. A. Owners, Waterman Springs Hotel Co. Building will be in the shape of the letter H, the central portion covering an area of 40 by 80 feet and the two wings 40 by 190 feet each. Interior finish pine and redwood. Some hardwood floors. Steam heat and open fire places. Hot water system. Bath rooms tile. Exterior covered with rustic and shingles. Plans being prepared.

HOSPITAL ADDITION—2 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect, A. C. Martin, Higgins Bldg., L. A. Owners, Angelus Hospital. Location, east Washington and Maple streets. Only preliminary plans have been prepared and details of the construction cannot be given at this time. The building will be fire proof and exterior faced with cement plaster. Plans are being prepared.

ORPHANS' HOME—3, 2 story and base, reinforced concrete, $75,000. Los Angeles, Cal. Architect, John F. Bee, Union League Bldg., L. A. Owners, Masonic Orphans' Home. Location, 12 miles out of Covina. The administration building will be 84 by 112, and will contain administrative offices of the home, music and social rooms, hospital and operating rooms, gymnasium and several living suites. The boys and girls dormitory, 84 by 13, the former having provision for 62 beds, and the latter 51 beds, each building containing besides the dormitory, social and study rooms, sewing rooms, toilets, etc. The buildings will have concrete foundations and base, walls reinforced concrete, skeleton frame and floor slabs, brick filler walls, tile or metal lath and plastered interior partitions, tapestry brick exterior. Plans are complete and figures have been taken. A contract will be awarded shortly.

ELEVATED RAILROAD — $166,000. Los Angeles, Cal. Engineer, Engineering Department Pacific Electric Railroad Co., L. A. Owners, Pacific Electric Railroad Co. The Pacific Electric Railway Co. has secured a permit for the elevated tracks which it will construct from the rear of the present station to San Pedro street. A number of steel and concrete umbrella sheds will also be erected, and the present station layout changed.

MARKET—2, 1 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owners, Standard Leasing Co. Location, 6th and Mill streets, covering an area of 55 by 270 feet. Designed for a municipal market. Interior finish pine, tile and white enamel. Cement and tile floors. Ventilating system. Patent store fronts. Exterior faced with white glazed brick. Plans complete and bids being taken for materials.

STORES AND LOFTS—2 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, F. A. Brown, Investment Bldg., L. A. Owner, Frank M. Tandy. Location, Wall street near 7th, covering an area of 140 by 125 feet. Interior finish pine. Patent store fronts and marble bases. Automatic sprinkler. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

WHOLESALE BUILDINGS — 2, 2 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Ar-

chitect, John Parkinson, Security Bldg., L. A. Owners, Los Angeles Union Terminal Co. Location, 7th and Central avenue, covering an area of 40 by 1500 feet. Interior finish pine. Metal window sash and frames. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

RESIDENCE — 2 story and base, frame, $20,000. Oak Knoll, Los Angeles Co., Cal. Architect, Reginald D. Johnson, Staats Bldg., L. A. Owner, Mrs. A. F. Landreth. Contractor, D. M. Renton, 108 South Vernon avenue, L. A. Contract price, $20,000.

APARTMENT HOUSE—6 story and base, brick, $250,000. Los Angeles, Cal. Architect, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Owner, John E. Ransford. Contractor, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Contract price, $250,000.

APARTMENT HOUSE—4 story and base, brick, $75,000. Los Angeles, Cal. Architect, L. T. Mayo, Black Bldg., L. A. Owner, B. G. Adams. Contractor, L. T. Mayo, Black Bldg., L. A. Contract price, $75,000.

SCHOOL—1 story and base, brick, $27,067. Los Angeles, Cal. Architect's name not given. Owners, City of Los Angeles. Contractor, George Condon, Wesley Roberts Bldg., L. A. Contract price, $27,067.

SCHOOL—1 story and base, hollow tile. Cost not stated. Brea, Orange Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, Brea School District. Contractor, G. A. Daniels, Herkimer Bldg., L. A., generl

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912.

of BUILDING AND ENGINEERING NEWS published weekly at San Francisco, California for April 1st, 1916.

State of California, City and County of San Francisco, ss.

Before me, Chalmer Munday, a Notary Public, in and for the State and county aforesaid, personally appeared L. A. Larsen, who, having been duly sworn according to law, deposes and says that he is the Publisher of the Building and Engineering News.

Publisher, L. A. Larsen, 560 Mission Street, San Francisco.

Editor, L. A. Larsen, 560 Mission St., San Francisco.

Managing Editor, L. A. Larsen, 560 Mission St., San Francisco.

Business Manager, L. A. Larsen, 560 Mission St., San Francisco.

Owner, L. A. Larsen, 560 Mission St., San Francisco.

Known bondholders, mortgagees, and other security holders, owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities: None.

L. A. LARSEN, Owner.

Sworn to and subscribed before me this 24th day of March, 1916.

CHALMER MUNDAY,
Notary Public in and for the City and County of San Francisco, State of California.
(My commission expires Oct. 18, 1917.)
[SEAL]

CABINET MAKERS.
Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

construction only. Contract price not stated.

WAREHOUSE—5 story and base. Class A construction, $58,000. Los Angeles, Cal. Architect, W. J. Dodd, Brockman Bldg., L. A. Owners, Los Angeles Trust and Savings Bank, Trustee. Location, Santa Fe avenue and Bay. Contractors, The Davidson Construction Co., 16th and Tennessee streets. Contract price, $58,000.

FACTORY—2 story and base, brick, $23,280. Los Angeles, Cal. Architect, C. E. Shattuck, Mason Bldg., L. A. Owner, R. H. Arnold. Contractor, George M. Easton, 426 West 30th street, L. A. Contract price, $23,280.

PORTLAND AND OREGON

SCHOOL—2 story and base, brick, $75,000. Roseburg, Ore. Architect, F. Mason White, Chamber of Commerce Bldg., Portland. Owners, City of Roseburg. Will cover an area of 166 by 127 feet. Besides class rooms there will be a large auditorium, manual training and domestic science departments. Interior finish pine with maple floors. Steam heat, modern school plumbing and vacuum cleaning. Marble and tile wainscot. Exterior faced with pressed brick. Plans nearly complete and fig-

SEATTLE AND WASHINGTON

STREET PAVING—$150,000. Walla Walla, Wash. Engineer, City Engineer, Walla Walla. Owners, City of Walla Walla. Bids have been called by City Clerk M. A. Power, to be opened on April 4th, for the paving of 16,000 feet of city streets, covering practically 31 blocks. Paving will be determined following the opening of figures, as proposals will cover all makes of pavement. W. R. Rehorn is City Engineer. Plans and further information may be had from the City Clerk or Engineer.

SCHOOLS—1, 3 story and 1, 2 story, brick and concrete. Cost as follows. Walla Walla, Wash. Architects, Osterman & Siebert, Walla Walla. Owners, City of Walla Walla. Bids opened by the School Board for the construction of an addition to the high school and the Ninth Street grade school show A. J. McLean, Walla Walla, low on the high school at $101,506 and low at $46,-740 for the grade school. It is probable that he will be awarded the contract.

ures to be called for shortly.

SCHOOL HEATING AND VENTILATING—Cost not stated. Seattle, Wash. Architect, Edgar Blair, 1426 Jackson street, Seattle. Owners, City of Seattle. Bids will be received on April 7th for furnishing and installing a new heating and ventilating system in the Fay School. Plans and specifications can be secured from the architect.

NOTICE OF NON-LIABILITY.

Mar. 28, 1916—E LA PLAYA 262 S Judah S 50xE 120. Oscar Heyman Bro as to improvements on leased property .....

MARCH BUILDING TOTALS AS REPORTED BY CITY BUILDING BUREAU.

Building activities throughout the city for the past month, as shown by the report of the Bureau of Building Inspector to the Board of Public Works, is as follows:

Class	No. of Bldgs.	Cost
Class "A"	2	$ 325,000
Class "C"	23	559,821
Frames	218	837,675
Alterations	452	219,047
Harbor Commission	1	48,450
State Buildings	1	47,524
Public Buildings	4	474,811
Total	701	$2,512,328

NOTICE OF NON-RESPONSIBILITY.

SAN FRANCISCO COUNTY.

Mar. 27, 1916—SE SOMERSET AND Wayland E 144 S 100 E 96 S 100 W 120 S 25 W 120 N 225. Mary J Wyhs as to improvements on leased property .....

Mar. 28, 1916—SW THIRD 130 SE Stevenson SE 70 SW 107 NE 70 SW 8 NW 60 NE 55 SE 60 NE 60. Hyman Bros Co as to improvements on leased property .....

Mar. 30, 1916—NE FELL & GOUGH N 120xE 137-6. John F Farley as to improvements on leased property

LEASE.

Mar. 29, 1916—NO. 1 MERRITT SW Cor Hattie. August Petzold to Alexander Seelan. 3 years. $1260.

Mar. 25, 1916—SE SOMERSET AND Wayland E 144 S 100 E 96 S 100 W 120 S 25 W 120 N 225. John Pfenninger and Mary J Wyhs to Angelo Boecoleri. 8 years. $1344.

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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White Brothers

Fifth & Brannan Sts. **San Francirco**

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
840	O'Connor	Cameron	750
841	Bedley	Ward	450
842	Read	Read	100
843	Cohl	W'n Hardwd	500
844	Walker	Walker	7500
845	S P Co.	McGinn	—
846	Union Trust	McSheehy	10452
847	Brockie	Turner	1080
848	Stand Oil	Maundrell	1415
849	Same	Fuller	2190
850	Same	Vitrolite	1296
851	Same	Randall	1270
852	Same	Johns	3091
853	Same	Brown	2948
854	Santini	Santini	800
855	Techau	Faget	5000
856	Coburn	Coburn	1000
857	Lorenzini	Lorenzini	800
858	Fairmount Floral	Kern	1000
859	Brugge	Witman	1000
860	Christiansen	Owner	500
861	Hirsch	Moller	400
862	Brunner	McGlumphy	700
863	Fetcher	Fletcher	3000
864	Lindberg	Lindberg	1800
865	Bayle	Lacoste	400
866	De Martini	Donovan	500
867	Halstead	Halstead	500
868	Micheli	Brumfield	400
869	Bourda	Bourda	750
870	Partidos	Partidos	400
871	Greely	Hatch	400
872	Fauda	Fauda	400
873	Johns	Johns	2950
874	Sturtevant	Donovan	900
875	Helbush	Woerner	3470
876	Garlick	Vodden	4500
877	Ellis St. Invst	Arlett	131000
878	Ford	Clinton	126877
879	Frazer	Wagner	12350
880	Kleiber	Trost	23741
881	Crocker	Brode	2200
882	Same	Williams	8065
883	Rieper	Wesendunk	2775
884	Roth	Klahn	4250
885	Cal Baking Co.	Spargo	7910
886	McLelland	McLelland	3000
887	Same	Same	3000
888	Same	Same	3000
889	Same	Same	3000
890	McDiarmid	McDiarmid	600
891	Same	Same	600
892	Gompertz	Gompertz	7900
893	Flynn	Flynn	4900
894	Boos	Glaser	900
895	Vogel	Flaherty	700
896	Roth	Farrell	575
897	McMullin	von Voorhies	5000
898	MacArthur	MacArthur	4000
899	Hamill	Hamill	600
900	Nelson	Nelson	2500
901	Landes	Landes	700
902	Boos	Boos	5000
903	Demartini	Demartini	2000
904	Dana	Bonaccorso	1400
905	Davis	McAfee	2275
906	D & S Invst	Hayes	7120
907	Same	Looney	7981
908	Same	Pasqualetti	2700
909	Same	Turner	2230
910	Same	Wedel	1950
911	Same	Guilfoy	3000
912	Same	Ralston	14528
913	Same	Maundrell	2310
914	Ward	Carlson	4650
915	Hueter	Higgins	15900

ALTERATIONS

(840) N TWENTY-SECOND 100 E Church. Stud basement, re-connect plumbing and minor alterations.

Owner.....Margaret O'Connor, Prem.

Architect .. L. M. Gardner, Phelan Bldg San Francisco.

Contractor..Cameron & Disston, 831 Hearst Bldg., San Francisco

COST, $750

UNDERPIN

(841) W MISSION 220 S 22nd. Underpin.

Owner.....W. S. Bodey, 139 Sutter, San Francisco.

Architect ...None.

Contractor..Ward & Goodwin, 110 Jessie, San Francisco.

COST, $450

ALTERATIONS

(842) NO. 341 LAIDLEY. Raise and alter and add concrete foundation.

Owner.....Alfred and Hannah Read, Premises.

Architect ...None.

Day's work. COST, $400

ALTERATIONS

(843) NO. 28 POWELL. Alter front.

Owner.....Cohl Bros., Premises.

Architect ...None.

Contractor..Western Hardwood Mfg Co., 1034 Goden Gate Ave., San Francisco.

COST, $500

FRAME FLATS

(844) E CENTRAL AVE 125 N Hayes. Two-story and basement frame (4) flats.

Owner.....Sidney Walker, 1661 Oak, San Francisco.

Architect ...None.

Day's work. COST, $7500

NEW BASALT BLOCKS

(845) NEW BASALT BLOCKS in Quint street from S line Arthur Ave to center line Evans Ave including intersection Burk Ave and Custer Ave, Davidson Ave and NE ½ Evans Ave, also new basalt block gutters on concrete foundation each side of Quint, bet. Arthur Ave and Evans Ave approximate total area basalt block pavement, 48,000 sq. ft., COST, 28c per sq. ft.

Total area of gutters, 3600 sq. ft., COST, 34½c per sq. ft.

Owner.....Southern Pacific Co., Flood Bldg., San Francisco.

Architect ...None.

Contractor..G. W. McGinn & Co., Phelan Bdg., San Francisco.

Filed Mar. 27, '16. Dated Dec. 31, '15.

Payments not given.....

TOTAL COST, $——

Bond, $7500. Surety, United States Fidelity & Guaranty Co. Limit, forfeit, none. Plans and specifications filed.

ALTERATIONS

(846) NW OCTAVIA AND HAIGHT W 137-6xN 120. Alterations and additions to buildings.

Owner.....Union Trust Co., Tr. Estate Thos. I. Bergin, dec'd., Union Trust Bldg., S. F.

Architect ...None.

Owner.....McSheehy Bros., 47 Langton, San Francisco.

Filed Mar. 27, '16. Dated Mar. 24, '16.

Payments semi-monthly of..... 75%

Usual 35 days..... 25%

TOTAL COST, $10,452

Bond, $5226. Sureties, Hannah Butler. Limit, 90 days. Forfeit, $20. Plans and specifications filed.

STEAM HEATING SYSTEM

(847) SW Jackson AND JONES. Steam heating system and domestic hot water supply tank and heater and oil burning plant for building.

Owner.....W. S. and Annie Brockie.

Architect ...Alexander A. Cantin, 68 Post, San Francisco.

Contractor..H. C. Matthies, 180 Jessie, San Francisco.

Sub-Contractor..The Turner Co., 280 Natoma, San Francisco.

Filed Mar. 28, '16. Dated Mar. 25, '16.

On or before 10th of each month 75%

Usual 35 days..... 25%

TOTAL COST, $1080

Bond, limit, forfeit, none. Specifications only filed.

PAINTING, ETC.

(848) NW SANSOME AND BUSH N 137-6xW 67-6. Painting, and finishing for alterations and extension to Class "A" office building.

Owner.....Standard Oil Co., Premises.

Architect ...Benj. G. McDougall, Sheldon Bldg., San Francisco.

Contractor..H. Maundrell, 320 Hayes, San Francisco.

Filed Mar. 28, '16. Dated Mar. 15, '16.

Bet 1st and 10th of each month 75%

Usual 35 days..... 25%

TOTAL COST, $1415

Bond, $708. Surety, The Aetna Accident & Liability Co. Limit, forfeit, none. Plans and specifications filed.

(849) GLASS ON ABOVE.

Contractor..W. P. Fuller & Co., Beale and Mission, S. F.

Filed Mar. 28, '16. Dated Mar. 3, '16.

Payments same as above.....

TOTAL COST, $2190

Bond, $1095. Surety, Massachusetts Bonding & Insurance Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(850) VITROLITE GLASS AND GLAZING on above.

Contractor..Vitrolite Constr. Co., 853 Mission, San Francisco.

Filed Mar. 28, '16. Dated ——.

Payments same as above.....

TOTAL COST, $1296.60

Bond, $649. Surety, Aetna Accident & Liability Co. Limit, 15 days after notified. Forfeit, $25. Plans and specifications filed.

(851) ELEVATOR DOOR CONTROL system on above.

Contractor..Randall Elevator Door Control Co., 115 Mission, San Francisco.

Filed Mar 28, '16. Dated Mar. 8, '16.

On completion 75%

Usual 35 days..... 25%

TOTAL COST, $1270

Bond, $635. Surety, Maryland Casualty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(852) LIGHTING FIXTURES ON above.

Contractor..H. W. Johns-Manville Co., 2nd and Howard, S. F.

Filed Mar. 28, '16 Dated Mar. 14, '16.

Payments same as above.....

TOTAL COST, $3091

Bond, $1546. Surety, National Surety Co. Limit, 15 days after notification. Forfeit, $25. Plans and specifications filed.

(853) FINISH HARDWARE ON ABOVE
Contractor..Chas. H. Brown & Son, 871 Market, San Francisco.
Filed Mar. 28, '16. Dated Mar. 10, '15.
When materials have been furnished 50%
Installed 25%
Usual 35 days..... 25%
TOTAL COST, $2948
Bond, $1474. Surety, Fidelity & Deposit Co. of Maryland. Limit, rapidly as required. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(854) N ARMSTRONG 500 W Lane. One-story and basement frame dwlg.
Owner.....Mrs. L. Santini, 1705 Yosemite Ave., San Francisco.
Architect ...None.
Contractor..L. P. Santini, 4243 18th, San Francisco.
COST, $800

ALTERATIONS
(855) NE EDDY AND JONES. Alter for ice skating rink.
Owner.....Techau Tavern Ice Palace, Inc., Premises.
Architect ...None.
Contractor..Faget Eng. Co., 354 Pine, San Francisco.
COST, $5000

REPAIRS
(856) S HAIGHT 169-6 — Divisadero. Repair fire damage.
Owner.....Ira W. Coburn, 180 Jessie, San Francisco.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(857) NOS. 3381-3385 SACRAMENTO. Alter for flats, porches, etc.
Owner.....V. Lorenzini, 428 Waliut, San Francisco.
Architect ...J. A. Porporato, 619 Washington, San Francisco.
Day's work. COST. $800

MEZZANINE FLOOR.
(858) NO. 141 POWELL. Erect mezzanine floor.
Owner.....Fairmount Floral Co, Phelan Bldg., S. F.
Architect ...Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..L. A. Kern, 3646 17th, S. F.
COST, $1000

FRAME DWELLING
(859) S CLEMENT 30 E 24th Ave (rear) One-story and basement frame dwlg.
Owner.....Edw. G. Brugge, 2249 Clement, San Francisco.
Architect ...None.
Contractor..Alfred Witman, Anza near 24th Ave., San Francisco.
COST, $1000

FRAME FLATS
(860) E TWENTY-FIFTH AVE 193-4 S Lake. Two-story and basement frame (2) flats.
Owner.....H. S. Christiansen, 685 3rd Ave., San Francisco.
Architect ...Koenig & Christiansen, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $5000

ALTERATIONS
(861) NO. 1111 STOCKTON. New front
Owner.....L. Hirsch, 947 Kearny, San Francisco.
Architect ...None.
Contractor..R. W. Moller, 185 Stevenson, San Francisco.
COST, $400

ALTERATIONS
(862) NO. 1915 PIERCE. Alter and add to dwelling.
Owner.....A. L. Brunner, 1314 Washington, Oakland
Architect ...None.
Contractor..McGlumphy & Agee, 2532 Geary, San Francisco.
COST, $700

FRAME DWELLING
(863) S BALBOA 82-6 E 21st Ave. Two-story and basement frame dwlg.
Owner.....J. P. Fletcher, Russ Bldg., San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(864) N MEDA 150 E Delano. One and one-half-story and basement frame dwelling.
Owner.....Arthur Lindberg, 72 Gates San Francisco.
Architect ...None.
Day's work. COST, $1800

REPAIRS
(865) FOOT OF DAVIDSON & MENdall. Repair wharf.
Owner.. ...Bayle Lacoste Co.
Architect ...None.
Day's work. COST, $400

REPAIRS
(866) NO. 3376 CLAY. Repair dwelling and garage.
Owner.....De Martini Regensburger, Premises.
Architect ...None.
Contractor..P. J. Donovan, 1477 6th Ave., San Francisco.
COST, $500

FRAME GARAGE
(867) NO. 178 SEA CLIFF. One-story frame garage.
Owner.....E. P. Halstead.
Architect ...August Nordin, Mills Bldg., San Francisco.
Day's work. COST, $500

ELECTRIC SIGN
(868) NO. 3276 MISSION. Electric sign
Owner.....Micheli Drug Store, Prem.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

REPAIRS
(869) NE PEABODY AND SUNNYSIDE Repair fire damage.
Owner.....J. Eourda, Premises.
Architect ...None.
Day's work. COST, $750

FRAME SHOP
(870) W TWENTY-THIRD AVE 300 S Geary. One-story and basement frame shop.
Owner.....Spiro Partidos, 433 23rd Ave., San Francisco.
Architect ...None.
Day's work. COST, $400

MOVE DWELLING
(871) NO. 368 EIGHTH AVE. Move dwelling.
Owner.....John Greely, Premises.
Architect ...None.
Contractor..H. L. Hatch.
COST, $400

ADDITIONS
(872 NO. 1158 UNION. Add two rooms and sleeping porch.
Owner.....Dr.C. O. Fauda, Premises.
Architect ...J. A. Porporato, 619 Washington, San Francisco.
Day's work. COST, $400

FRAME RESIDENCE
(873) E TWENTY-FOURTH AVE 150 S Geary. Two-story and basement frame residence.
Owner.....Johns Bros., 1903 Baker, San Francisco.
Architect ...None.
Day's work. COST, $2950

REPAIRS
(874) NO. 31 BELMONT AVE. Repair for garage.
Owner.....G. A. Sturtevant, Premises.
Architect ...None.
Contractor..T. J. Donovan, 1477 6th Ave., San Francisco.
COST, $900

BAKING OVENS
(875) N GEARY 17-6 E Larkin E 40 N 137-6 W 27-6 S 57-6 W 12-6 S 80. All work for erection and completion of 2 baking ovens for Eppler's Bakery.
Owner.....H. H. Helbush.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..G. L. Woerner, 3638 20th, San Francisco.
Filed Mar. 29, '16. Dated Mar. 8, '16.
Ovens erected and completed..$1735.00
Ovens tested and accepted by tenant of building, Jacob Eppler $67.50
3 months after last preceeding payment $67.50
TOTAL COST, $3470.00
Bond, none. Limit, 40 days. Forfeit, none. Specifications only filed.

FRAME RESIDENCE
(876) W SEVENTEENTH AVE 125 N Fulton W 120 ——. All work for two-story and basement frame residence.
Owner.....Etha F. Garlick.
Designer ...Walter G. Vodden, 1015 Coe, San Francisco.
Contractor..Thomas Vodden & Son.
Filed Mar. 29, '16. Dated Mar. 28, '16.
5 equal payments as follows:
Frame up ..... ——
Brown coated ..... ——
Inside trim completed..... ——
Completed ..... ——
Usual 35 days..... ——
TOTAL COST, $4500
Bond, none. Limit, 120 days from April 10, 1916. Forfeit, none. Plans and specifications filed.

CLASS "A" THEATRE
(877) NE ELLIS AND MASON E 77-6 xN 187-6. All work except structural steel for Class "A" theatre building.
Owner.....Ellis Sstreet Investment Co., 316 Bush, S. F.
Architect ...B. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..Arthur Arlett, 180 Jessie, San Francisco.
Filed Mar. 30, '16. Dated Mar. 24, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $131,000
Bond, none. Limit, 150 days. Forfeit, $100. Plans and specifications filed.

ADDITION
(878) SE TREAT AVE AND TWENTY-first. Mason, terra cotta, steel, iron, carpenter, plaster, painting, plumbing, etc., for five-story reinforced concrete garage addition to west of present building.
Owner.....Ford Motor Co., Premises.
Architect ...Albert Kahn and Ernest Wilby, Detroit, Michigan.
Contractor..The Clinton Constr. Co. of California, 140 Townsend, San Francisco.
Filed Mar. 30, '16. Dated Mar. 27, '16.
As work progresses..... 75%
30 days after..... 25%
TOTAL COST, $126,877.45
Bond, $64,000. Surety, California Casualty Co. Limit, Sept. 27, 1916. Forfeit, $100. Plans and specifications filed.

FRAME STORES
(879) NW TENTH AVE & CLEMENT. All work except roofing, electric light fixtures for one-story frame store building.
Owner.....Dr. I. A. Frazer, 512 Bank of San Jose Bldg., S. J.
Architect ...W. H. Weeks, 75 Sutter, San Francisco.
Contractor..Daniel R. Wagner & Co., 110 Jessie, San Francisco.
Filed Mar. 30, '16. Dated Mar. 20, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $12,350
Bond, $6175. Surety, Massachusetts Bonding & Insurance Co. Limit, 70 days. Forfeit, none. Plans and specifications filed.

MANUFACTURING PLANT
(880) N FOLSOM AND ELEVENTH NW 275 — 205 SE 137-6 SW 69 SE 6 in. SW 35 SE 137-6 th to beg. All work for one-story brick and steel frame manufacturing plant.
Owner.....Kleiber & Co., Inc., Prem.
Engineer ...Richard tum Suden, 625 Market, San Francisco.
Contractor..Robert Trost, 26th and Howard, San Francisco.
Filed Mar. 30, '16. Dated Mar. 28, '16.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $23,741
Bond, $12,000. Sureties, Geo. Hale and Chas. A. Gander. Limit, 90 days. Forfeit, $20. Plans and specifications filed.

ALTERATIONS
(881) NO. 340 STOCKTON. Iron work for alterations to Hotel Wiltshire.
Owner.....Charles H. Crocker, 565 Market, San Francisco.
Architect ...Macdonald & Macdonald, Holbrook Bldg., S. F.
Contractor..Brode Iron Works, 31 Hawthorne, San Francisco
Filed Mar. 30, '16. Dated Mar. 9, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $2200
Bond, limit, forfeit, none. Plans and specifications filed.

(882) PLASTERING & WOOD WORK on above.
Contractor..Williams Bros. & Henderson, Holbrook Bldg., S. F.
Filed Mar. 30, '16. Dated Mar. 2, '16.
Payments same as above.....
TOTAL COST, $8065
Bond, limit, forfeit, none. Plans and specifications filed.

ALTERATIONS
(883) S TWENTY-EIGHTH 177-4 E Dolores E 25-8xS 114. Alterations and additions of a one-story frame into two-story frame flats.
Owner.....Meta Rieper, 1076 Guerrero San Francisco.
Architect ...None.
Contractor..A. A. Wesendunk, 1747 Dolores, San Francisco.
Filed Mar. 31, '16. Dated Mar. 30, '16.
Ready for lathing.....$695
Enclosed and windows in..... 695
Completed and accepted..... 695
Usual 35 days..... 705
TOTAL COST, $2775
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME BUILDING
(884) W CHENERY at intr. of N line Lot 1 Blk 15, Fairmount Tract S 32 W 57 m or 1 NW 12 m or 1 to N line Lot 1 Blk 15 th E and SE to beg, being W Chenery about 80 N Whitney All work for two-story frame bldg.
Owner.....Fedor Rothe, 12 Valley, San Francisco.
Architect ...A. Klahn, 27 Chenery, S. F.
Contractor..A. Klahn & Son, 27 Chenery, San Francisco.
Filed Mar. 31, '16. Dated Mar. 28, '16.
Frame up $1000
Brown coated 1100
Completed and accepted..... 900
Usual 35 days..... 1261
TOTAL COST, $4260
Bond, none. Limit, 100 days. Forfeit, $1. Plans and specifications filed.

GARAGE
(885) NW ELLIS AND PIERCE N 100 xW 55. All work for one-story reinforced concrete garage building.
Owner.....California Baking Co., Fillmore and Eddy, S. F.
Architect ...P. Righetti, Phelan Bldg., San Francisco.
Contractor..John Spargo, 240 Montgomery, San Francisco.
Filed Mar. 31, '16. Dated Mar. 29, '16.
Foundations in and forms ready for concrete up to roof beam.$1977.50
Roof trusses set and concrete fire walls in place..... 1977.50
Completed and accepted..... 1977.50
Usual 35 days..... 1977.50
TOTAL COST, $7910.00
Bond, $3955. Sureties, Joseph Mulvihill and E. P. Shorthall. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(886) E TWELFTH AVE 150 N Cabrillo. Two-story and basement frame residence.
Owner.....R. McLelland, 530 12th Ave. San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME RESIDENCE
(887) E TWELFTH AVE 175 N Cabrillo. Two-story and basement frame residence.
Owner.....R. McLelland. 530 12th Ave. San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME RESIDENCE
(888) E TWELFTH AVE 200 N Cabrillo. Two-story and basement frame residence.
Owner.....R. McLelland, 530 12th Ave. San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME RESIDENCE
(889) E TWELFTH AVE 225 N Cabrillo. Two-story and basement frame residence.
Owner.....R. McLelland, 530 12th Ave. San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(890) SE UNION AND NEVADA. One-story and basement frame dwelling.
Owner.....W. G. McDiarmid, 394 Fair Oaks, San Francisco.
Architect ...None.
Day's work. COST, $600

FRAME DWELLING
(891) W NEVADA 50 S Union. One-story and basement frame dwelling.
Owner.....W. G. McDiarmid, 394 Fair Oaks, San Francisco.
Architect ...None.
Day's work. COST, $600

FRAME RESIDENCE
(892) NE GREEN AND BRODERICK. Two-story and basement frame residence.
Owner.....Chas. W. Gompertz, 503 Market, San Francisco.
Architect ...None.
Day's work. COST, $7900

FRAME FLATS
(893) W SECOND AVE 203 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....Mrs. Flora Flynn, 546 Webster, San Francisco.
Architect ...None.
Day's work. COST, $4900

BAKE OVEN
(894) NO. 725 MARKET. Brick bake oven.
Owner.....Boos Bros. Cafeteria Co., Inc., 1059 Market, S. F.
Architect ...None.
Contractor..J. R. Glaser & Co., 2070 Union, San Francisco.
COST, $900

ALTERATIONS
(895) NO. 122 COLLINGWOOD. Alter partitions in flats.
Owner.....Mrs. C. Vogel, Premises.
Architect ...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..John Flaherty, 110 Jessie, San Francisco.
COST, $700

UNDERPIN WALL
(896) NO. 275 O'FARRELL. Underpin wall.
Owner.....Daniel Roth, Paso Robles, California.
Architect ...Albert Landsburgh, 709 Mission, San Francisco.
Contractor..Farell & Reed, 709 Mission San Francisco.
COST, $575

FRAME RESIDENCE
(897) CRAFTON WAY ner El Portal Drive: Lot 12 Blk 2975 Claremont Court. Two-story and basement frame residence.
Owner.....McMullin-von Voorhies Co., 110 Jessie, San Francisco.
Architect ...D. C. Coleman, 625 Market, San Francisco.
Day's work. COST, $5000

FRAME FLATS
(898) W TWENTY-FIRST AVE 25 S

Irving. Two-story and basement frame (2) flats.
Owner.....MacArthur Bros., 1560 Fell, San Francisco.
Architect ...None.
Day's work. COST, $4000

FRAME FLATS
(899) NE CLEMENT & THIRTIETH Ave. Two-story and basement frame (4) flats.
Owner.....Thos. Hamill, 5535 Geary, San Francisco.
Architect ...None.
Day's work. COST, $6000

FRAME DWELLING
(900) E HILLWAY 55 S Carl. Two-story and basement frame dwelling.
Owner.....F. Nelson, 30 Presidio Terrace, San Francisco.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(901) NO. 1444 LA PLAYA. Alter and add to cafe and dance hall.
Owner.....G. C. Landes, 1343 48th Ave., San Francisco.
Architect ...Heiman & Schwartz, Nevada Bank Bldg., S. F.
Day's work. COST, $700

ALTERATIONS
(902) NOS. 725-727 MARKET. Tile floors and walls for cafeteria.
Owner.....Bancroft Estate; Lessee, Boos Bros., 731 Market, S.F.
Architect ...A. Heide, 367 Russ Bldg., San Francisco.
Day's work. COST, $5000

ALTERATIONS
(903) SE GRANT AVE & FILBERT. Alter frame flats in 2nd and 3d story.
Owner..... Louis Demartini, 565 Union San Francisco.
Architect ...Paul F. DeMartini, 2123 Powell, San Francisco.
Day's work. COST, $2000

FRAME STORE
(904) S TARAVAL 107 W 7th Ave. One-story and basement frame store.
Owner.....Tony Danna, 3225 Folsom, San Francisco
Architect ...None.
Contractor..F. & G. Benaccorso, 70 Manchester, San Francisco.
COST, $1400

FRAME DWELLING
(905) E FORTY-SIXTH AVE 175 S Lincoln Way. Two-story and basement frame dwelling.
Owner.....S. R. Davis, Commercial Bldg., San Francisco.
Architect ...None.
Contractor..McAfee & Mero, 125 Morse, San Francisco.
COST, $2275

APARTMENTS
(906) SW ELLIS AND HYDE. Lathing and plastering for six-story and basement apartments.
Owner.....D. & S. Investment Co., 1152 Phelan Bldg., S. F.
Architect ...None.
Contractor..W. W. Hayes, 180 Jessie, San Francisco.
Sub-Contractor..James F. Smith, 746 Monadnock Bldg., S. F.
Filed Apr. 1, '16. Dated Feb. 5, '16.
Metal lathing done.....$1780
Brown coated 1780
White coated 1780
Usual 35 days..... 1780
TOTAL COST, $7120
Bond, $3560. Sureties, Daniel O'Nell and Chas. J. Powers. Limit, forfeit, none. Plans and specifications filed.

(907) PLUMBING, GAS FITTING AND sewering on above.
Contractor..J. Looney, 85 City Hall Ave., San Francisco.
Filed Apr. 1, '16. Dated Feb. 16, '16.
Roughed in to 4th floor, incl..$1691.75
Completed 1560.00
Finished material in to and including 4th floor..... 1367.00
Completed and accepted..... 1367
Usual 35 days..... 1995
TOTAL COST, $7981.00
Bond, $3990. Sureties, J. J. O'Connor and A. Lynch. Limit, forfeit, none. Plans and specifications filed.

(908) CONCRETE, CEMENT WORK, reinforcing bars, side walk lights and excavating on above.
Contractor..J. Pasqualetti, Humboldt Bank Bldg., S. F.
Filed Apr. 1, '16. Dated Feb. 7, '16.
Excavating ready for concrete work $400
Concrete walls and footings in place 800
Completed 825
Usual 35 days..... 675
TOTAL COST, $2700
Bond, $1350. Sureties, Pietro Barale and Felice Rocca. Limit, forfeit, none. Plans and specifications filed.

(909) STEAM HEATING PLANT, DOmestic hot water supply, tank and heaters and oil burning equipment on above.
Contractor..The Turner Co., 278 Natoma, San Francisco.
Filed Apr. 1, '16. Dated Mar. 2, '16.
Piping roughed in.....$557.50
Boilers and hot water tank installed 557.50
Completed and accepted..... 557.50
Usual 35 days..... 557.50
TOTAL COST, $2230.00
Bond, $1115. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit none. Plans and specifications filed.

(910) ELECTRIC WIRING ON ABOVE.
Contractor..Wedel Elec. Co., Russ Bldg San Francisco.
Filed Apr. 1, '16. Dated Feb. 28, '16.
Conduit roughed in.....$487.50
Wire roughed in..... 487.50
Completed and accepted..... 487.50
Usual 35 days..... 487.50
TOTAL COST, $1950.00
Bond, $975. Sureties, S. Goldzucher and Fred F. Ouer. Limit, forfeit, none. Plans and specifications filed.

(911) GALVANIZED IRON WORK ON above.
Contractor..Guilfoy Cornice Works, 209 8th, San Francisco.
Filed Apr. 1, '16. Dated Feb. 5, '16.
Main cornice and belt courses bet. bay windows set.....$750
Completed and accepted..... 750
Usual 35 days..... 750
TOTAL COST, $3000
Bond, $1500. Sureties, A. H. Wilhelm and R. A. Chisholm. Limit, forfeit, none. Plans and specifications filed.

(912) STRUCTURAL STEEL AND cast iron work on above.
Contractor..Ralston Iron Works, 20th and Indiana, S. F.
Filed Apr. 1, '16. Dated Feb. 5, '16.
Steel frame set in place.....$5000
Completed 5896
Usual 35 days..... 3632
TOTAL COST, $14,528
Bond, $7264. Surety, Guardian Casualty Co. Limit, forfeit, none. Plans and specifications filed.

(913) PAINTING, PAPERING, ETC., on above.
Contractor..H. Maundrell, 320 Hayes, San Francisco.
Filed Apr. 1, '16. Dated ——.
On completion 2nd coat.....$577.50
On completion of 4th coat..... 577.50
Completed and accepted..... 577.50
Usual 35 days..... 577.50
TOTAL COST, $2310.00
Bond, $1155. Sureties, J. E. Gilson and E. S. Rainey. Limit, forfeit, none. Plans and specifications filed.

FRAME BUILDING
(914) E MISSION 125 S 18th S 25xE 100. All work except foundation and plumbing for two-story frame bldg.
Owner.....Hugh and Della Ward, 974 Minnesota, San Francisco.
Architect ...None.
Contractor..Elmer Carlson, 209 Prospect Ave., San Francisco.
Filed Apr. 1, '16. Dated ——.
Frame up $1150
Ready for finish..... 1150
Completed and accepted..... 1175
Usual 35 days..... 1175
TOTAL COST, $4650
Bond, $2325. Sureties, Jno. E. Beck and J. C. Ward. Limit, 90 days. Forfeit, none. Plans and specifications filed

BRICK STORE AND LOFT BUILDING.
(915) W FILLMORE 103 N Sutter N 50 xW 100. All work except elevator for two-story and basement brick store and loft building.
Owner.....E. C. and O. M. Hueter, 816 Mission, San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Apr. 1, '16. Dated Mar. 30, '16.
1st story joists in place and walls up to that point.....$2000
2nd story joists set and walls up to that point..... 2000
Roof on and fire walls completed 2000
Brown coated 2000
Completed and accepted..... 3925
Usual 35 days..... 3975
TOTAL COST, $15,900
Bond, $7950. Sureties, J. H. McCallum and E. O. Benner. Limit, 120 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

San Francisco

Mar. 24, 1916—W TWENTY-FOURTH Ave 175 S Clement S 25xW 120. Alfred Johnson to whom it may concern.....Mar. 24, 1916
Mar. 25, 1916—NW GREEN AND August Alley W 21-2xN 60. E Orero and J A Avansino to G Chiappe.....Mar. 24, 1916
Mar. 27, 1916—E TWELFTH AVE 250 N Fulton N 25xE 120. Audley F and Florence Donnelly to Chas Schwarz.....Mar. 24, 1916
Mar. 27, 1916—SE BRYANT AND 20th E 76xS 27. John O McAuliffe to E C Gaspard & Co....Mar. 27, 1916
Mar. 27, 1916—E LISBON 100 S Russia

Ave 25x100. G J Castell to whom it may concern.....Mar. 25, 1916

Mar. 27, 1916—E WEBSTER bet. Clay and Sacramento. The Board of Trustees of The Leland Stanford Jr University to Hunt-Mirk Co..... .....March 18, 1916

Mar. 27, 1916—N CALIFORNIA 56-3 W Polk W 37-6xN 87-6. Francis T Tyler to Petterson & Persson and Frank Davison.....Mar. 24, 1916

Mar. 28, 1916—W EIGHTEENTH AVE 225 S Anza S 25xW 120. J M Peters to whom it may concern.Mar. 27, 1916

Mar. 28, 1916—E TWENTY-SECOND Ave 100 N Clement — 50xE 120. Johnson & Johnson to whom it may concern.....Mar. 24, 1916

Mar. 28, 1916—W TWENTY-FIRST Ave 90 S California S 50xW 120. Grace Yager to whom it may concern.....Mar. 27, 1916

Mar. 29, 1916—NW GEARY AND COMmonwealth W 103xN 100. Erma A Waterman to Wm Little.Mar. 28, 1916

Mar. 29, 1916—LOT 18 Allen & Co Sbdvn Windsor Terrace. Harry B and Laurence D Allen to whom it may concern.....Mar. 27, 1916

Mar. 29, 1916—E NINETEENTH AVE 50 S Balboa S 25xE 95; No. 612 19th Ave. W R Kenny to whom it may concern.....Mar. 28, 1916

Mar. 29, 1916—E NINETEENTH AVE 75 S Balboa S 25xE 95; No. 616 19th Ave. W R Kenny to whom it may concern.....Mar. 28, 1916

Mar. 29, 1916—W NINETEENTH AVE 302 N California N 26xW 120. Edna A Root to Schroder Bros. (to correct former acceptance described as W 19th Ave 375 N California).. .....Jan. 28, 1916

Mar. 29, 1916—NE POST & STOCKton. The Pacific Union Club to Joseph Musto Sons-Keenan Co.... .....Mar. 24, 1916

Mar. 29, 1916—W MISSION 160 S 22nd — 125 S 40 E 125 N 40. Marion Leventritt to California Steel Co.. .....Mar. 28, 1916

Mar. 30, 1916—N LAKE 82-6 E 26th Ave E 30xN 108. Emma A Gates to F G Denke.....Mar. 25, 1916

Mar. 30, 1916—E TWENTY-FIFTH Ave 100 S Geary S 25xE 120. John H Olsson to E J Spence and W H Walthall.....Mar. 27, 1916

Mar. 30, 1916—S BUSH 107-6 W Jones W 54-11xS 137-6. Max and Dora Kolander to F G Denke.Mar. 30, 1916

Mar. 31, 1916—SE FIFTEENTH AND Dolores 100x29. Christoph Weinrank to L A Hinson....Mar. 29, 1916

Mar. 31, 1916—N CALIFORNIA 95 E 25th Ave E 25xN 95. H C Christiansen to whom it may concern.. .....Campleted —

Mar. 31, 1916—E LISBON 200 N Russia Ave. Peter Ferro to Ward C Brown.....Mar. 31, 1916

Mar. 31, 1916—E TAYLOR 92-6 S Washington E 100xS 30. Arthur H Rochfort to Barrett & Hilp..... .....March 25, 1916

LIENS FILED

San Francisco

Mar. 11, 1916—NW TWENTY-4TH and Poplar Alley W 30 N 83 NE to W Poplar Alley S 83-6. L H Sylvester, $52.50; A J Sternke, $50.75 vs Saporitti & Benetti and J S McLelland .....

Mar. 11, 1916—W MISSION 190-9 N 25th N 25xW 117-6. J P Lorden Mill Co vs Annie M Schulz and Ratto & Ratto.....$482.50

Mar. 11, 1916—W TWENTY-NINTH 180 E Castro E 25xS 114. Henry Gervais vs G Cavaglieri and Joseph F Fogarty $35

Mar. 11, 1916—N EIGHTEENTH 95 E Valencia 80xE 25. Palace Hardware Co vs P M McHugh.....$215.72

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Philip Marchi vs Joseph Fogarty.....$86

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. P E Depaoli vs Joseph F Fogarty and G Cavaglieri $38

Mar. 13, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. John Cassaretto vs Joseph F Fogarty and G Cavaglieri $123.05

Mar. 13, 1916—COMG 180 E from N 29th and Castro E 25xN 120. Louis Trebino vs J F Fogarty & G Cavaglieri $31.50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Frank J Klimm, $571.45; Western Furnace & Cornice Co, $299.60 vs Mrs L G Auzerais .....

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. P P Lund vs Mrs L G Auzerais.....$470

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼ Lyden & Bickel vs Andrew Wilkie Co and Mrs L G Auzerais.....$711.20

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. O Dudzeck and M Leutholdt (as M Leutholdt & Co) vs Frank A Wilkie and Mrs L G Auzerais.....$170

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. W P Fuller & Co vs A Wilkie Co, F A Wilkie and Mrs L G Auzerais....$288

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 137-8¼. Butte Eng & Elec Co vs Mrs L G Auzerais $219.15

Mar. 14, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Eagle Elec Co vs Joseph Fogarty and G Cavaglieri $50

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS127-8¼. H E Drake vs L G Auzerais and Frank A Wilkie.....$158.70..

Mar. 14, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Holloway Expanded Metal Co, $31.20; Pope & Talbot, $1154.72; Herring's Mill, Inc, $838 vs Mrs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—LOT 21 BLK "K" Mission Terrace (NE Cor. Santa Ynez Ave and Capistrano Ave). H G Dolder and A A Derrickson vs Pietro Cembrano or P Cenbrano.$825

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Bay Development Co, $166.03; Pacific Portland Cement Co, $34.55 vs L G Auzerais and Frank A Wilkie.....

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 25xS 127-8¼. Joseph Musto Sons-Keenan Co vs Mrs L G Auzerais and Frank A Wilkie $129.20

Mar. 16, 1916—N TWENTY-NINTH 180 E Castro E 25xN 114. Acme Lumber Co vs Jos F Fogarty and G Cavaglieri $175

Mar. 17, 1916—N HOWARD 215 W Third W 60xN 80. Victor Rosenbaum vs Emma T Corr.....$50

Mar. 17, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-8 to a pt 69-9 W Steiner and 40 S Filbert E 2-3 N 40. Mangrum & Otter vs Louise D and J C Brickell and Murray Vandall, John Brickell Co and E M Reagh.....$173.50

Mar. 17, 1916—LOT 7 BLK 291 O'Neil & Haley Tract. Michael Ostorero vs Pietro Salon.....$372.30

Mar. 15, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Joost Bros vs L G Auzerais and F A Wilkie $74.52

Mar. 20, 1916—N EIGHTEENTH 95 E Valencia 25x80. William Hemington vs F H McHugh.....$160

Mar. 20, 1916—LOT 21 BLK "K" Mission Terrace. Palace Hardware Co vs H G Dolder and A A Derrickson (as Dolder & Derrickson.....$54.41

Mar. 20, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Palace Hardware Co vs Mrs L G Auzerais $287.41

Mar. 20, 1916—N BUSH 114-7 E Leavenworth E 91-8xN 137-6. Geo and Frank U Burnett vs Josephine Hall and C F and Rose Pickering.. .....$186

Mar. 21, 1916—SW SACRAMENTO & Pillmore W 80xS 40. John Cassaretto, $144.65; J S Guerin, $229.50 vs George B Burton.....

Mar. 21, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. Inlaid Floor Co vs F A Wilkie and Leonide G Auzerais.....$317.25

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Joseph Spingola vs Dolder & Derrickson and P Cenbrano $105

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Reinhart Lumber & Planing Mill Co vs H G Dolder, A A Derrickson and Pietro Cembrano or P Cenbrano $250

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Pope & Talbot vs Pietro Cembrano or P Cenbrano, H P Dolder and A A Derrickson....$195

Mar. 22, 1916—LOT 21 BLK "K" Mission Terrace. Joseph Spingola vs Dolder & Derrickson and P Cenbrano $105

Mar. 23, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. J K Stewart vs Frank A Wilkie and Mrs L G Auzerais.....$30

Mar. 22, 1916—NO. 711 SHOTWELL, bet 21st and 22nd. Giuseppe Mariani vs G Cavaglieri and August Sherzel $96

Mar. 24, 1916—SW FILLMORE AND Sacramento W 80xS 40. M A Fennila, $63.50; John Fraser, $68.75; Phoenix Sidewalk Light Co, $87.50 vs Geo B Burton and H W Arnold

Mar. 24, 1916—SE FILLMORE AND Sacramento W 80 S 40 E 80 W 40. L Demattei vs Geo B Burton and H W Arnold.....$231.25

Mar. 25, 1916—N EIGHTEENTH 95 E Valencia E 25xN 80. John J Leonard s P M McHugh.....$300

Mar. 27, 1916—LOT 21 BLK "K" Mission Terrace. Friedman Bros vs Pietro Cembrano or P Cenbrano, H G Dolder and A A Derrickson....$25

Mar. 27, 1916—NW COOK & GEARY N 100xW 26-8. Malott & Peterson vs H M and Francis C Berthiaume and O R Thayer.....$36

Mar. 28, 1916—E SHOTWELL 93 S 21st Giuseppe Mariani vs J Cavaglieri and A Chazel.....$96

Mar. 29, 1916—N PAGE 165-7½ W Central Ave 44-4½xN 137-6. John D Hoff Asbestos Co vs Carrie Green and J P Fletcher.....$57

Mar. 30, 1916—W MISSION 190-9 N

25th N 25xW 117-6. Mission Concrete & Mosaic Co vs Annie Schultz and Ratto & Ratto.....$319.50

Mar. 31, 1916—W TWENTY-FIRST Ave 125 N Anza N 50xW 120. Edw F Pico vs J W Wright & Sons Inv Co $65

Mar. 31, 1916—W SHOTWELL 109-4 S 22nd S 25xW 142-6. W L Leplin vs Fredk and Mathilde Angerstein and J B Woolfrey.....$162.20

Mar. 31, 1916—S PACHECO 245 W Alton Lot 4 Blk 248, Forest Hill Court. Loop Lumber Co vs E M Reagh and Henry A and Jane Doe Lehfeldt $483.51

Building Contracts Awarded

Oakland.

706	Ruehlin	Stewart	3500
707	Simons	Stewart	3000
709	Futon	Arnett	400
711	Powell	Powell	400
712	Earl	Thompson	400
713	Fregno	Brunetti	500
714	Kelly	Kelly	2300
715	Eliades	Knight	2315
717	Wilson	Cox	1250
719	Ligviss	Taylor	400
720	Brook	Brook	1000
721	Whitaker	Rose	500
722	Coburn	Coburn	2000
723	Hart	Hart	1500
724	Coit	Muller	90000
725	Pfrang	Pfrang	2500
726	Pfrang	Pfrang	4100
727	Pfrang	Pfrang	2500
728	Jurgens	Cal Steel	52500
731	Gavin	Moore	2890
733	Earl	Thompson	352
734	Garretson	Garretson	4000
735	Butler	Butler	2500
736	Millana	Perona	2500
737	Luedeking	Jesperson	1900
748	Randels	Charleston	1245
749	Anderson	Anderson	2200
750	Smith	McGrew	2500
751	Dexter	Dexter	2500
752	Calhoun	Lee	1869
754	Waterbury	Wallace	494
755	Stewart	Stewart	500
757	Sankey	Rankin	1900
758	Smith	Weider	400
760	Koenig	Peterson	400
762	Chevrolet	Wood	20000
764	Prince	Prince	400
766	Packard	Packard	2500
767	Same	Same	2500
768	Same	Same	2500
769	Same	Same	2500
770	United Hm Bldrs	Owner	2000
771	Pallen	Pallen	3000
772	Wiser	Wiser	1800
775	Morser	Morser	2000
776	Blasbalg	Bond	450
777	Anderson	Knight	2500
778	Havens	Carson	7500
779	McCabe	Chambers	2500
780	Carlisle	Carlisle	1000
781	Pacific Coast Motor	Archt'l	2500
782	Peterson	Peterson	3000
783	Calhoun	Lee	1800
784	Glantz	Glantz	1600
785	Blabon	Blabon	1600

FRAME DWELLING
(706) FAIRVIEW AVE., Lot 81 Nova Piedmont, Piedmont. Two-story frame dwelling.
Owner.....Ed. Ruebling, 4195 Telegraph Ave., Oakland.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $2500

FRAME DWELLING
(707) E DALE AVE, Lot 26, Nova Piedmont, Piedmont. One-story frame dwelling.
Owner.....Glenn R. Bell and Alex. Simons.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $3090

REPAIRS
(709) NO. 856 EIGHTEENTH, Oakland Repairs and alterations.
Owner.....Mrs. Fulton, Premises.
Architect ...None.
Contractor..J. O. Arnett, 2535 Filbert, Oakland.
COST, $400

ALTERATIONS
(711) NO. 1627 LINDEN, Oakland. Alterations.
Owner.....C. E. Powell, Premises.
Architect ...None.
Day's work. COST, $400

GARAGE
(712) NO. 2194 McCLURE, Oakland. Garage.
Owner.....Ella F. Earl, Premises.
Architect ...None,
Contractor..E. S. Thompson & Son, 3650 Broadway, Oakland.
COST, $400

DWELLING
(713) NO. 4980 CORONADO AVE., Oakland. One-story 3-room dwelling.
Owner.....T. Pregno, Premises.
Architect ...None.
Contractor..G. Brunetti, 443 42rd, Okd.
COST, $500

DWELLING
(714) E TRASK 240 N Foothill Blvd., Oakland. One-story 5-room dwelling
Owner.....R. H. Kelly, 2240 47th Ave., Oakland.
Architect ...None.
Day's work. COST, $2300

FRAME STORES
(715) LOTS 14 AND 15 BLK 34 Map Havenscourt Tract, Oakland. All work for one-story frame (2) stores.
Owner.....Arthur Eliades, Oakland.
Architect ...Chester H. Miller, 1st Investment Bldg., Oakland.
Contractor..Harry C. Knight, 3857 Market, Oakland.
Filed Mar. 25, '16. Dated Mar. 22, '16.
1st floor joists placed.....$500
Ceiling joists placed..... 425
Brown coated 475
Accepted 500
Usual 35 days..... 415
TOTAL COST, $2315
Bond, none. Limit, 65 days after laying foundation plate. Forfeit, none. Plans and specifications filed.

DWELLING
(717) W THIRTEENTH AVE 200 N E-25th, Oakland. One-story 4-room dwelling.
Owner.....N. B. Wilson, 1017 7th, Okd.
Architect ...None.
Contractor..L. W. Cox, 2014 13th, Okd.
COST, $1250

STORES
(720) NE BECK & SEVENTY-THIRD Ave, Oakland. One-story 4-room dwelling.
Owner.....W. L. Brook, 1919 34th Ave. Oakland.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(721) NO. 469 THIRTEENTH, Oakland. Alterations.
Owner.....E. A. Whitaker, 2302 17th, Oakland.
Architect ...None.
Contractor..A. H. Rose & Co., 545 17th, Oakland.
COST, $500

DWELLING
(722) S MADELINE 150 W Laurel Ave Oakland. One-story 6-room dwelling.
Owner.....Emma Coburn, 2370 E-28th, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(723) E THIRTY-EIGHTH AVE 40 N Kanning, Oakland. One-story 5-room dwelling.
Owner.....Chas. D. Hart, 615 22nd, Oakland.
Architect ...None.
Day's work. COST, $1500

BRICK APARTMENTS
(724) W HARRISON 106 N 14th, Oakland. Four-story brick apartments.
Owner.....Coit Invst. Co., 306 14th, Oakland.
Architect ...Alvin J. Stern, 306 14th, Oakland.
Contractor..F. A. Muller, Syndicate Bldg., Oakland.
COST, $90,000

DWELLING
(725) S FIFTY-SIXTH 110 W Dover, Oakland. One-story 5-room dwlg.
Owner.....H. C. Pfrang, 320 Forest, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(726) W MILES AVE 125 N Forest, Oakland. Two-story 6-room dwlg.
Owner.....H. C. Pfrang, 320 Forest, Oakland.
Architect ...None.
Day's work. COST, $4100

DWELLING
(727) E DESMOND 120 S Clifton, Oakland. One-story 5-room dwelling.
Owner.....H. C. Pfrang, 320 Forest, Oakland.
Architect ...None.
Day's work. COST, $2500

EIGHT-STORY BUILDING
(728) NW FIFTEENTH AND CLAY W 100xN 103-9, Okd. Cast iron bases, steel frame, etc., for eight-story and basement building.
Owner.....The Chas. Jurgens Co., Inc., 373 13th, Oakland.
Architect ...Walter J. Mathews, 927 Broadway, Oakland.
Contractor..California Steel Co., 2nd and Harrison, Oakland.
Filed Mar. 27, '16. Dated Mar. 22, '16.
One-fifth work completed.....$ 8025
Two-fifths work completed... 8025
Three-fifths work completed.. 8025
Four-fifths work completed... 8025
Completed 8025
Usual 35 days..... 13,375
TOTAL COST, $53,500
Bond, $26,750. Surety, New Amsterdam Casualty Co. Limit, starts July 15; Aug. 15. Forfeit, none. Plans and specifications filed.

(731) E REDWOOD ROAD IN CASTRO Valley, 2 miles N Hayward. Work not specified.
Owner.. ...Mr. and Mrs. Wm Gavin.
Architect ...None.
Contractor..Moore & Thomas.
Filed Mar. 27, '16. Dated Dec. 4, '15.
1st floor joists laid..... 1-5
Frame up and roof on..... 1-5
Plastered 1-5
Finish labor, doors and windows hung 1-5
Completed 1-5
TOTAL COST, $2800
Bond, none. Limit, 75 days after Dec.

10. Forfeit, plans and specifications, none.

GARAGE, ETC.
(733) NO. 2914 McCLURE, Oakland. All work for garage, fence, screen house, repairs, painting, etc.
Owner.....Ella F. Earl, Premises.
Architect ...Beverly B. Wilder, 5824 Ocean View Drive, Oakland
Contractor..E. S. Thompson & Son, 3650 Broadway, Oakland.
Filed Mar. 27, '16. Dated Mar. 17, '16.
Completed and accepted..... 75%
Usual 35 days..... 25%
TOTAL COST, $352
Bond, $200. Surety, Fidelity & Deposit Co. Limit, forfeit, none. Plans and specifications filed.

DWELLING
(734) W BAY VIEW AVE 90 N E-28th, Oakland. Two-story 7-room dwelling
Owner.....John D. Garretson, Thomson Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $4000

DWELLING
(735) SE CLAREMONT AVE AND Pedestrian Way, Oakland. Two-story 6-room dwelling.
Owner.....H. S. Butler, 5648 Oak Grove Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

ADDITION
(736) SW FORTY-SIXTH & GROVE, Oakland. Add 1-story to one-story dwelling (store).
Owner.....P. Millana, Premises.
Architect ...None.
Contractor..John Perona, 568 7th, Okd.
COST, $2500

DWELLING
(737) W MARKET 40 S 40th, Oakland. One-story 5-room dwelling.
Owner.....C. A. Luedeking, 308 Elwood Ave., Oakland.
Architect ...None.
Contractor..Jesperson & Dippo, 980 38th, Oakland.
COST, $1900

ALTERATIONS
(748) NOS. 809-11 TWENTY-SEVENTH, Oakland. Alterations.
Owner.....Mrs. A. Randels, 1012 McAllister, San Francisco.
Architect ...None.
Contractor..C. E. Charleston, 5627 Genoa, Oakland.
COST, $1245

DWELLING
(749) N WALNUT AVE 150 W Lilac, Oakland. One-story 5-room dwelling.
Owner.....J. W. Anderson, Hayward.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2200

FLATS
(750) W SECOND AVE, bet E-14th and E-15th; No. 1435 Second Ave, Oakland Two-story 16-room flats.
Owner.....H. A. Smith, 1435 2nd Ave., Oakland.
Architect ...None.
Contractor..H. A. McGrew, 2022 11th Ave., Oakland.
COST, $2500

BUNGALOW
(751) S OAKLAND AVE 223 E Fairview, Piedmont. One-story 6-room bungalow.
Owner.....A. R. Dexter, 2212 Grove, Oakland.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(752) N MELROSE AVE 71.60 E 48th Ave E 35xN 130, Oakland. All work for one-story 5-room frame dwelling.
Owner.....Chas. A. Calhoun, 1201 53rd Ave., Oakland.
Architect ...None.
Contractor..M. G. Lee, 4719 Ygnacio Ave., Oakland.
Filed Mar. 29, '16. Dated Mar. 29, '16.
Cement foundation in.....$100
Frame passed by Bldg. Inspector 500
Plastered 250
Completed 500
Usual 35 days..... 518
TOTAL COST, $1868
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
(775) N WALNUT AVE 152 E Courtland, Oakland. One-story 6-room dwelling.
Owner.....H. Morser, Courtland and Walnut, Oakland.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
(776) NO. 717 CASTRO, Oakland. Alterations.
Owner.....A. Blasbalg, Premises.
Architect ...None.
Contractor..J. R. Bond, Premises.
COST, $450

DWELLING
(777) E BEAUMONT 200 S Park Blvd., Oakland. One-story 5-room dwelling.
Owner.....Carl E. Anderson, Oakland
Architect ...Chester H. Miller, 1st Savings Bank Bldg., Oakland.
Contractor..H. C. Knight, 1514 Havenscourt Blvd., Oakland.
COST, $2500

ALTERATIONS
(754) NO. 5578 TAFT AVE., Oakland. Alterations to dwelling.
Owner.....Flora M. Waterbury, Prem.
Architect ...None.
Contractor..Wallace Bros.
Filed Mar. 29, '16. Dated Jan. 28, '16.
Outside work completed..... 50%
Completed and accepted..... 50%
TOTAL COST, $494.25
Bond, none. Limit, March 15. Forfeit, none. Specifications only filed.

DWELLING
(755) SW EIGHTY-SEVENTH AVE & "D," Oakland. One-story three-room dwelling.
Owner.....J. J. Stewart, 8703 D St., Oakland.
Arcitect ...None.
Day's work. COST, $500

DWELLING
(757) E CLAREMONT AVE 200 S Forest, Oakland. One-story 5-room dwlg.
Owner.....Chas. A. Sankey.
Architect ...None.
Contractor..J. D. Rankin, 6082 Claremont Ave., Oakland.
COST, $1900

GARAGE
(758) N MANDANA BLVD 67 W Calmar, Oakland. Garage.
Owner.....W. T. Smith, 646 Mandana Blvd., Oakland.
Architect ...None.
Contractor..H. H. Weider, 530 Jones, Oakland. COST, $400

STORE
(760) W TWENTY-THIRD AVE 150 N E-14th, Oakland. One story store.
Owner.....E. J. Koenig, 2262 E-14th, Oakland.
Architect ...None.
Contractor..J. Peterson, E-16th & 25th Ave., Oakland.
COST, $400

CONCRETE FACTORY
(762) COR. FOOTHILL BLVD & HILLside Ave., Oakland. Three-story reinforced concrete factory.
Owner.....Chevrolet Motor Co. of Cal. Van Ness Ave and California, San Francisco.
Architect ..None.
Contractor..W. E. Wood Co., Detroit, Michigan.
COST, $200,000

SHED
(764) E-ELEVENTH AND TWENTY-ninth Ave., Oakland. Shed.
Owner.....H. I. Prince Co., Premises.
Architect ...None.
Day's work. COST, $400

DWELLING
(766) W WESLEY AVE 203 — Brooklyn Ave., Oakland. One and one-half story 6-room dwelling.
Owner.....Walter H. Packard, 1020 Broadway, Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2500

DWELLING
(767) W WESLEY AVE 260 N Brooklyn Ave., Oakland. One and one-half story 6-room dwelling.
Owner.....Walter H. Packard, 1020 Broadway, Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2500

DWELLING
(768) E MERRITT 218 N Brooklyn Ave., Oakland. One and one-half-story 6-room dwelling.
Owner.....Walter H. Packard, 1020 Broadway, Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2500

DWELLING
(769) E MERRITT 171 N Brooklyn Ave., Oakland. One and one-half-story 6-room dwelling.
Owner.....Walter H. Packard, 1020 Broadway, Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $2500

DWELLING
(770) N JOSEPH 159 E Samuel, Albany. One-story 5-room dwelling.
Owner.....United Home Builders, 1527 Broadway, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(771) NW MARIN AND TULARE, Albany. One and one-half-story seven room dwelling.
Owner.....A. H. Pallen, 686 61st, Okd.
Architect ...None.
Day's work. COST, $3000

DWELLING
(772) E BRYANT AVE 187 S Ada, Oakland. One-story 5-room dwelling.
Owner.....Eunice Wiser, 5601 Edger-

ley, Oakland.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
(778) S SEVENTEENTH 100 W Telegraph Ave., Oakland. Alter one-story brick factory building into dance hall
Owner.....Havens & Leimert, Oakland Bk. Svgs Bldg., Okd.
Architect ...None.
Contractor..John Carson, Bacon Blk., Oakland.
COST, $7500

DWELLING
(779) S E THIRTY-FOURTH 138 E 13th Ave., Oakland. One-story five-room dwelling.
Owner.....T. J. McCabe, Plaza Bldg., Oakland.
Architect ...None.
Contractor..Chambers & O'Keefe, Plaza Bldg., Oakland.
COST, $2500

DWELLING
(780) NE SIXTY-SECOND & LOWELL (rear), Oakland. One-story 4-room dwelling.
Owner.....H. L. Carlisle, NE Cor. 11th and Jefferson, Oakland.
Architect ...None.
Day's work. COST, $1000

FRAME SHED
(781) ELEVENTH & FALLON, Oakland. One-story frame temporary shed.
Owner.....Pacific Coast Motor Power Show Ass'n., 96 Bacon Bldg Oakland.
Architect ...None.
Contractor..Architectural Eng. Co., Bacon Bldg., Oakland.
COST, $2500

DWELLING
(782) W WOODRUFF 125 N Hampel, Oakland. One-story 5-room dwelling.
Owner.....Annie C. Peterson, 1200 E-24th, Oakland.
Architect ...None.
Contractor..Chas. Peterson, 1200 E-24th, Oakland.
COST, $3000

DWELLING
(783) N MELROSE AVE 71 E 48th Ave., Oakland. One-story 7-room dwelling.
Owner.....C. A. Calhoun, 51st Ave. nr E-12th, Oakland.
Architect ...None.
Contractor..M. G. Lee, 4719 Ygnacio, Oakland.
COST, $1800

DWELLING
(784) W TWENTY-SECOND AVE 70 S E 16th, Oakland. One-story five-room dwelling.
Owner.....C. W. Glantz, 1438 82nd Ave Oakland.
Architect ...None.
Day's work. COST, $1600

DWELLING
(785) E LOMA VISTA 100 S Kansas, Oakland. One-story 5-room dwlg.
Owner.....E. R. Blahon, 2556 62nd Oakland.
Architect ...one.
Day's work. COST, $1600

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
708	Wagner	Peterson	400
716	Cutter	Cutter	2000
718	Stubbe	Stubbe	4000
730	Hiller	Anderson	2480
732	Heath	Sullivan	2500
753	Mills	Hughes	3296
756	Martin	Kollmer	800
759	Milnthrop	Underwood	500
761	Brown	Kincaid	500
763	Nutting	Allen	2000
765	Hanson	Hanson	1500
773	Hall	McCloy	450
774	Kockritz	Patrick	2200

GARAGE
(708) NO. 1301 ARCH, Berkeley. Garage.
Owner.....P. A. Wagner, 1300 Arch, Berkeley.
Architect ...None.
Contractor—Peterson.
COST, $400

STABLE
(716) W SIXTH, bet. Grayson and Snyder, Berkeley. Two-story 4-room stable.
Owner.....The Cutter Laboratory, 6th and Grayson, Berkeley.
Architect ...None.
Day's work. COST, $2000

DWELLING
(718) E THE ALAMEDA opp. San Pedro, Berkeley. Two-story 8-room dwelling.
Owner.....R. E. Stubbe, 1408 Grand Ave., Oakand.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(719) NO. 366 CLIFTON, Oakland. Alterations.
Owner.....Mr. Ligviss, Premises.
Architect ...None.
Contractor..Chas. Taylor.
COST, $400

DWELLING
(730) W 37½ LOT 13 BLK "G" Northbrae Terrace, Berkeley. All work for one-story 6-room dwelling.
Owner.....H. Hiller, 2309 Bowditch, Berkeley.
Architect ...W. L. Brodrick, 1201 Colusa Ave., Berkeley.
Contractor..Ed. A. J. Anderson, Axel Anderson and Carl Swanson, 1054 49th, Oakland.
Filed Mar. 27, '16. Dated Feb. 28, '16. Frame and chimneys up.....$587.50
Brown coated 587.50
Completed and accepted..... 587.50
Usual 35 days..... 717.50
TOTAL COST, $2480.00
Bond, none. Limit, 75 days after Feb. 28. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(732) NO. 2321 WEBSTER, Berkeley. Alter and add to two-story frame creamery.
Owner.....G. R. Heath, Premises.
Architect ...None.
Contractor..John Sullivan, 6452 Harmon Court, Oakland.
Filed Mar. 27, '16. Dated Mar. 25, '16. Material and labor bills paid by owner; contractor gets $30 weekly Usual 35 days after completed and accepted contractor gets difference between contract price, $2500 and cost of labor and material, less weekly amounts paid to him during course of construction.....
COST—If front and side additi cement plastered, $2500.
If plaster and base is covered tile, add $85.
Bond, none. Limit, 90 days. For none. Plans and specifications file

STORE
(756) E COLLEGE AVE 100 S Russ Berkeley. One-story store.
Owner.....H. M. Martin, 2715 Hi gass Ave., Berkeley.
Architect ...None.
Contractor..Jacob Kollmer, 2813 St Berkeley.
COST, $

ADDITION
(759) NO. 1626 FAIRVIEW, Berke Addition.
Owner.....Mayme Milnthrop, Pren
Architect ...None.
Contractor..J. A. Underwood, Howe ,Oakland.
COST, $

ALTERATIONS
(761) W DOMINGO AVE 24 S Russ Berkeley. Alterations.
Owner.....A. W. Brown and He Townsend 2907 Clarem Ave., Berkeley.
Architect ...None.
Contractor..J. C. Kincaid, 6604 Da Oakland. COST, $

ADDITION
(763) NO. 2944 AVALON AVE., B keley. One-story addition (gara and billiard room).
Owner.....F. P. Nutting, Premises.
Architect ...None.
Contractor..F. E. Allen, 648 34th, O COST, $2

DWELLING
(765) N BLAKE 120 E Mabel, Berkel One-story 5-room dwelling.
Owner.....J. S. Hanson, 1633 Jos phine, Berkeley.
Architect .....one.
Day's work. COST, $15

FRAME DWELLING
(753) LOT 7 BLK 3 Map Arlingt Heights, Berkeley. All work for o story frame dwelling.
Owner.....Hilda F. Mills, Berkeley
Architect ...None.
Contractor..G. L. Hughson, 2801 Cal fornia, Berkeley.
Filed Mar. 29, '16. Dated Mar. 27, '16. Completed and accepted.....$16
Usual 35 days..... 6
$1046.70 to be paid in monthly installments of $50 each with 8% interest .....
.... TOTAL COST, $3296.
Bond, none. Limit, 75 days after Apr 1. Forfeit, $1. Plans and specificatio filed.

STORE
(773) W GROVE 190 S Allston Wa Berkeley. One-story store.
Owner.....Mrs. E. Hall, 1109 Oa Oakland.
Architect ...None.
Contractor..Harry T. McCloy, 623 33r Oakland.
COST, $45

DWELLING
(774) W GRANT 200 S Vine, Berkele One-story 5-room dwelling.
Owner.....F. J. Kockritz, 1518 Gran Berkeley.
Architect ...None.

dnesday, April 5, 1916.

ractor..O. M. & H. G. Patrick, 2001 Hopkins, Berkeley.
COST, $2200

Building Contracts Awarded

ALAMEDA COUNTY.

Vergez	Durfour	4200
Stassforth	Andresen	4035
Buck	Reese	1500
Noble	Noble	2000
Noble	Noble	3000
Noble	Noble	2000
Fortmann	Owner	1000
Same	Same	1000
Cole	Adams	3000
Osborn	Spence	750
Howlett	Howlett	400
Philpott	Fish	500

AME LAUNDRY AND FLAT
) LOT 18 BLK 43 Map Ptn Min-
rn, Alameda. All work for two-
ory frame laundry and flat bldg.
ner.....Gabriel & Therese Vergez, 2245 Encinal Ave., Ala.
hitect ...None.
tractor..Wm. Dufour, 2326 Santa Clara Ave., Alameda.
d Mar. 24, '16. Dated Mar. 24, '16.
rame up ..... ¼
rown coated ..... ¼
ompleted ..... ¼
sual 35 days..... ¼
TOTAL COST, $4200
nd, none. Limit, 60 days. Forfeit, ne. Plans and specifications filed.

AME STORE
20) NE ENCINAL AND VERSAILLES
Aves., Alameda. All work for one-
story frame stores.
ner.....Richard A. Stassforth, Ala.
chitect ...None.
ntractor..Andresen Constr. Co., San Francisco.
led Mar. 27, '16. Dated Mar. 25, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $4035
nd. none. Limit, 40 days. Forfeit, ne. Plans and specifications filed.

WELLING
38) NO. 1211 COLLEGE AVE., Ala-
meda. One-story 5-room dwelling.
wner.....Callie Buck, 1218 College Ave., Alameda.
rchitect ...None.
ontractor..J. H. Reese, 2909 San Jose Ave., Alameda.

WELLING
739) NO. 2511 NOBLE AVE., Alameda.
One-story 5-room dwelling.
wner.....G. H. Noble, 2220 Central Ave., Alameda.
rchitect ...None.
ay's work.
COST, $2000

DWELLING
740) NO. 1415 WILLOW, Alameda.
Two-story 8-room dwelling.
wner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work.
COST, $3000

DWELLING
(741) NO. 2528 SAN JOSE AVE., Ala-
meda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work.
COST, $2000

DWELLING
(742) NO. 1117½ PACIFIC AVE., Ala-
meda. One-story 4-room dwelling.
Owner.....E. D. Fortmann, 803 Haight Ave., Alameda.
Architect ...None.
Day's work.
COST, $1000

DWELLING
(743) NO. 1135½ PACIFIC AVE., Ala-
meda. One-story 4-room dwelling.
Owner.....E. D. Fortmann, 803 Haight Ave., Alameda.
Architect ...None.
Day's work.
COST, $1000

DWELLING
(744) NO. 3232 FAIRVIEW AVE., Ala-
meda. Two-story 7-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Ave., Alameda.
COST, $3000

ADDITION
(745) NO. 1310 CLINTON AVE., Ala-
meda. Addition.
Owner.....R. F. Osborn, Premises.
Architect ...None.
Contractor..A. T. Spence, 641 Taylor Ave., Alameda.
COST, $750

ADDITION
(746) NO. 1320 GROVE, Alameda. Ad-
dition.
Owner.....Emma Howlett, Premises.
Architect ...None.
Contractor..J. C. Howlett, Premises.
COST, $400

ALTERATIONS
(747) NOS. 1209-11 UNION, Alameda.
Alterations.
Owner.....J. P. Philpott, Premises.
Architect ...None.
Contractor..M. H. Fish, 1420 Fountain, Alameda.
COST, $500

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 24, 1916—LOT 2 BLK 6 Hotel Claremont Tract, Okd. M E Wickson to whom it may concern.....March. 22, 1916

Mar. 25, 1916—W CASTRO, if extended S, 80 S First W 456.03xS 300, Okd. Pacific Gas & Electric Co to M E Hopper & Sons....Mar. 15, 1916

Mar. 27, 1916—LOT 58 Map Nova Piedmont, Piedmont. F N Strang to whom it may concern...Mar. 25, 1916

Mar. 27, 1916—LOT 14 BLK "D" Map Waterside Terrace, Alameda. Mark T Cole to whom it may concern.....March 27, 1916

Mar. 27, 1916—LOT 185 AND N Ptn Lot 184 Nova Piedmont, Piedmont. Geo Ross by Matt L Koski to Koski Bros.....Mar. 24, 1916

Mar. 27, 1916—LOT 4 BLK 4 Oaklawn Tract, Okd. J L Rankin to whom it may concern.....Mar. 24, 1916

Mar. 28, 1916—SE GRANT AND ROSE S 70xE 100, Bkly. A Begley to Gustaf Johanson.....Mar. 24, 1916

Mar. 28, 1916—E 10 LOT 10 and W 25 Lot 11 Blk 7 Map Mathews Tract, Bkly. Charles A Werner and F W Kline to Chas A Werner.Mar. 25, '16

Mar. 29, 1916—LOTS 5, 6, 7 AND 8 Blk 98 Map Kellersberger's Map, Oakland. Mary J Luckenbach to Geo Armstrong.....Mar. 25, 1915

Mar. 29, 1916—LOT 33 Map Resbdvn Home View Tract, Bkly. Eva M Banks to Woolley & Rich.Mar. 20, '16

Mar. 30, 1916—SE ELEVENTH AVE and E-16th W 150xS 75, Oakland. Thomas and A M Cullen by Thos Cullen to O M Bullock..Mar. 30, 1916

Mar. 30, 1916—NW ELEVENTH AND Franklin, Okd. Odd Fellows' Hall Association to J Henry Boehrer and Alfred Legault.....Mar. 28, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 22, 1916—W FILBERT 125 S 8th S 13-8¾xW 125, Okd. A H Bar (Bar Mercantile Co) vs O M Bullock, E Marshall (trustee) Beth Eden Baptist Church $18.50

Mar. 28, 1916—E TWENTY-THIRD Ave 120 N E-30th, being Lot 4 Blk 9 Amended Map Putman Tract, Okd A F Virgil vs E H Strang.....$34

Mar. 28, 1916—N ALLSTON WAY 90 E Acton, being Lot 10 Blk 1 Map Plan State University Homestead Ass'n., Bkly. F W Foss Co vs Nellie and David Hoffer $74.55

Mar. 29, 1916—NE COLLEGE & HARwood Aves N 107.45 E 60.66 S 100 W 100, Okd. The J Llewellyn Co vs Marion H Dunham and J F Woodward $263

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

CONCRETE FOUNDATIONS
AT GAS WORKS, San Jose. All work for concrete foundations.
Owner.....Pacific Gas & Electric Co., 48 E-San Antonio St., San Jose.
Architect ...None.
Contractor..George J. Raggio, 216 N-16th St., San Jose.
Filed Mar. 28, '16. Dated Mar. 21, '16.
Completed and accepted.....$1038.75
Usual 35 days..... 346.25
TOTAL COST, $1385.00
Bond, $700. Surety, Hartford Accident & Indemnity Co. Limit, 30 days. Forfeit, none. Plans and specifications filed

COTTAGE AND GARAGE
LOTS 15 AND 16 Sbdvn Swall Tract, Las Altos. All work for combination garage and cottage.
Owner.....Edward J. McCutchen, Merchants' Exchange Bldg., San Francisco.
Architect ...John White, Lick Bldg., San Francisco.
Contractor..F. W. Fox, Palo Alto.
Filed Mar. 27, '16. Dated Mar. 23, '16.
Frame up $552
Plaster on 552
Job accepted 552
Usual 35 days..... 552
TOTAL COST, $2208
Bond, $2208. Surety, National Surety Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

FRAME RESIDENCE
MENLO HEIGHTS. All work for plumbing and fixtures for frame residence.
Owner.....Isabelle D. Pool, San Mateo County.
Architect ...Howard & White, Lick Bldg., San Francisco.

Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed Mar. 18, '16. Dated Mar. 6, '16.
Roughing in completed.....$600
When accepted 435
Usual 35 days..... 345
TOTAL COST, $1380
Bond, limit, forfeit, none. Plans and specifications filed.

GARAGE
BURLINGAME, San Mateo. All work for garage in rear of laundry on premises of present residence.
Owner.....M. A. Gunst, California & Front, San Francisco.
Architect ...G. Albert Lansburgh, M. A. Gunst Bldg., S. F.
Contractor..F. L. Hansen, M. A. Gunst Bldg., San Francisco.
Filed Mar. 23, '16. Dated Mar. 21, '16.
Frame up and roof on.....$1500
When completed 750
Usual 35 days..... 800
TOTAL COST, $3050
Bond, $1525 Surety, No company or personal sureties given except Contractor. Limit, 60 days. Forfeit, non Plans and specifications filed.

FRAME RESIDENCE
LOT 5 BLK 5 SUB. NO. 2, Burlingame Park, Burlingame. All work for one story 6-room frame residence.
Owner.....Edward E. and Jessie D Bourne, Burlingame.
Architect ...Ernest L. Norberg, Bank Bldg., Burlingame.
Contractor..J. R. Catherwood and M. J. Hamilton, 149 W- Poplar, San Mateo.
Filed Mar. 18, '16. Dated Mar. 17, '16.
Frame up $575
Roofed and plastered..... 575
When completed 575
36 days after..... 575
TOTAL COST, $2300
Bond, $1150. Surety, Massachusetts Bonding & Insurance Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Mar. 24, 1916—SINGLETAIRE AVE off The Alameda, near San Jose. Jno Kraus to V F Van Dalsem..... .....March 17, 1916
Mar. 24, 1916—LOT 7 HIGHLAND Sbdvn of record in County Recorder's Office in Book "L" of Map Page 74, Records of County. F O Nelson to whom it may concern... .....March 18, 1916

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Mar. 13, 1916—PTN LOTS 1 AND 2 Blk No. 5 Sub. No. 2 of Burlingame Park. Samuel Hill to S B Kress.. .....March 11, 1916
Mar. 15, 1916—PALOMA AVE near Sanchez Ave, Easton Add'n to Burlingame No. 1. William and Annie Wynman to W Monroe..Mar. 4, 1916
Mar. 17, 1916—LOT 22 BLK 44, Lyon & Hong Sbdvn to Burlingame. Nels Wenstrom to whom it may concern.....Mar. 16, 1916
Mar. 17, 1916—S GRAND AVE 100 E Spruce Ave, South San Francisco. George Munter to E K Nelson.... .....March 17, 1916
Mar. 20, 1916—LOTS 18 AND 19 Sub No. 1, San Mateo Park, San Mateo. Fred M Doak to Wm S Leadley... .....March 10, 1916
Mar. 24, 1916—LOT 63 BLK 7, Stanford Park, Menlo Park. H H and Irene V B Putnam to whom it may concern.....Mar. 24, 1916
Mar. 29, 1916—LINDEN AVE, South San Francisco. James Carmody to Charler Johnson.....Mar. 25, 1916

LIENS FILED.

SAN MATEO COUNTY.

RECORDED AMOUNT
Mar. 18, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood City. J H Bailey, $164; P E Brand, $218.35; Gray-Thorning Lumber Co, $640.55 vs Harry H and Irene V B Putnam
Mar. 20, 1916—LOTS 43 AND 50 Polhemus Tct near Menlo Park. Gray Thorning Lumber Co vs Currie & Currie and James G and Rose E Sharp $326.50
Mar. 21, 1916—LOTS 43 AND 50 Polhemus Tct near Menlo Park. Harry B Morey & Sons, $91.53; M E Ryan, $102.25 vs Currie & Currie and James and Rose E Sharp.....
Mar. 24, 1916—LOTS 43 AND 50, Polhemus Tct, Menlo Park. William Southwood vs Currie & Currie and James G and Rose E Sharp...$125.06
Mar. 27, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood City. R E Johnston vs Irene V B and Harry Putnam $31.25
Mar. 29, 1916—LOTS 43 AND 50 Polhemus Tct, Atherton. Palo Alto Hardware Co vs Rose E and James E Sharp and Archibald Currie..$73.08
Mar. 30, 1916—PTN LOTS 1 AND 2 Blk 5, Burlingame Park, Burlingame. Edward Brady vs Samuel Hill $34.25

BUILDING CONTRACTS.

CONTRA COSTA COUNTY.

COTTAGE
EIGHTH ST., bet. Barrett and Nevin, Richmond. Five-room cottage.
Owner.....Geo. D. Valencia, 328 Ripley Ave., Richmond.
Architect ...None.
Contractor..C. Fiorini, 2349 Main St., Richmond.
COST, $1200

FRAME DWELLING
LOT 1 and easterly 17 feet 2 inches Lot 2 Blk No. 1 in Austin tract Addition to Town of Martinez. Excavating, grading, concrete and cement work, patent chimney, tile, carpenter and mill work, glass, stairs, plumbing, hardwood floors, lathing, plastering, cement stucco, sheet metal, hardware, roofing, painting and tinting and other work (except wiring and heating) for two-story and basement frame dwelling.
Owner.....George P. Keller, Main and Ferry Sts., Martinez.
Architect ...Alexander A. Cantin, 68 Post, San Francisco.
Contractor..Luke Bulger & Son, Castro and Green Sts., Martinez.
Filed Mar. 18, '16. Dated Mar. 16, '16.
Frame up and rafters on.....$1166.25
Lathed inside and out..... 1166.25
Standing finish in place..... 1166.25
Completed and accepted..... 1166.25
Usual 35 days..... 1555.00
TOTAL COST, $6220.00
Bond, $3110. Surety, ——. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS.

MARIN COUNTY.

FRAME BUILDING
SAN ANSELMO. All work for one-story and basement frame building.
Owner.....Julia T. Carey, San Anselmo, Cal.
Architect ...Welsh & Carey, Merchants National Bank Bldg., S. F.
Contractor..E. L. Wilson, San Anselmo.
Filed Mar. 28, '16. Dated Mar. 25, '16.
Roof on.....$750
When plastered 600
When finished 918
Usual 35 days..... 763
TOTAL COST, $3031
Bond, none. Limit, 70 working days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
SAN ANSELMO, Marin Co. All work for one-story frame residence.
Owner.....Harry and Theresa Greenbaum, 729 Hyde, S. F.
Architect ...Bernard J. Joseph, 647 New Call Bldg., San Francisco.
Contractor..A. F. Hanson, San Anselmo.
Filed Mar. 29, '16. Dated Mar. 21, '16.
Frame up $493.75
When plastered 493.75
When completed 493.75
Usual 35 days..... 493.75
TOTAL COST, $1975.00
Bond, $1000. Sureties, Carl M. Hanson and John J. Lezzini. Limit, 60 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Mar. 28, 1916—SAN ANSELMO, Marin Co. The Trustees of First Presbyterion Church to H J Hansen..... .....March 18, 1916
Mar. 29, 1916—SAN ANSELMO, Marin Co. J A Byrnes to Wallace & Lanpher.....Mar. 24, 1916

LIENS FILED

MARIN COUNTY.

RECORDED AMOUNT
Mar. 28, 1916—SAUSALITO, Marin Co. R De Luca vs Sylvester Pearl $631.62
Mar. 30, 1916—SAUSALITO, Marin Co. T Paterson Ross vs Sylvester Pearl $200

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING
NO. 236 F ST., Fresno. Dwelling.
Owner.....Alec Rose.
Architect ...None.
Contractor..C. Demler, 261 Rose St., Fresno.
COST, $1125

LOTS 10 AND 11 N ½ LOT 12, Alhambra Tract, Fresno. All work for two-story dwelling and garage.
Owner.....C. L. McLane, 471 Nielsen St., Fresno.

Wednesday, April 5, 1916.

Architect ...Glass & Butner, 3 Republican Bldg., Fresno.
Contractor..R. Pedersen and Andrew Jorgensen, 3740 Washington St., Fresno.
Filed Mar. 25, '16. Dated Mar. 25, '16.
Ceiling joists in.....$1097.25
Roof on and rough plumbing in 1097.25
Plastered 1097.25
Completed 1464.00
36 days .....
TOTAL COST, $5853.00
Bond, $2927. Sureties, G. Larsen and Andrew Iversen. Limit, 85 working days. Forfeit, none. Plans and specifications filed.

DWELLING
LOTS 6, 7 BLK 25 Arlington Heights, Fresno. Dwelling.
Owner.....Beulah Lipscomb, 820 L St., Fresno.
Architect ...None.
Contractor. Rheiner Boyd.
COST, $2000

DWELLING
LOTS 26 AND 27 BLK 17, Belmont Addition, Fresno. Dwelling.
Owner.....F. E. Lawrence, 2828 Thomas St., Fresno.
Architect ...None.
Day's work. COST, $2000

DWELLING
LOT 10 AND 11½ LOT 12 BLK 10, Alhambra Tract, Fresno. Dwelling.
Owner.....L. L. McLane.
Architect...None.
Contractor..R. Petersen Co.
COST, $6500

DWELLING
LOT 2 BLK 20 Alta Vista, Fresno. Dwelling.
Owner.....F. B. Billings, 204-206 Rowell Bldg., Fresno.
Architect ...None.
Contractor..W. H. Ackerman, 3rd and Huntingtin, Fresno.
COST, $2950

DWELLING
LOT 2 BLK 20, Alta Vista Tract, Fresno. Dwelling.
Owner.....R. G. Meyering, 3065 Madison St., Fresno.
Architect ...None.
Contractor..W. H. Ackerman, 3rd and Huntington Sts., Fresno.
COST, $2450

COMPLETION NOTICES.

FRESNO COUNTY.

RECORDED ACCEPTED
Mar. 25, 1916—LOTS 45 AND 46 Madren Park, Fresno. Nona and Henry Gede Jr to whom it may concern .....Mar. 23, 1916
Mar. 25, 1916—LOTS 13 AND 14 BLK 51, East Fresno. H H Hawley to F G Fawcett.....Mar. 24, 1916
Mar. 27, 1916—75 FEET LOTS 1 TO 7 Blk 94, Fresno. F M Roessler to whom it may concern..Mar. 25, 1916
Mar. 30, 1916—SEC 1, 20-15, Fresno. Kern Trading & Oil Co to whom it may concern.....Mar. 27, 1916

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
Mar. 25, 1916—LOTS 9 TO 17 BLK 15, Woodward Add'n, Fresno. Madary's Planing Mill, $116; C S Pierce Lumber Co, $513 vs People's Ice Co et al
Mar. 25, 1916—LOTS 9 TO 17 BLK 15, Woodward Addition, Fresno. Johnson Nudt, $1648; Central State Electric Co, $31 vs Peoples' Ice Co....
Mar. 27, 1916—LOTS 9 TO 17 BLK 15 Woodward Add'n, Fresno. Valley Roofing Co, $175; Gruhl & Vecke, $566; Fresno Sheet Metal Roofing Co $157; Kieselguhr, $368; Valley Hardware Co, $59; Lewis Electric Co, $277; Swastika Lumber Co, $203 vs People's Ice Co.....

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Mar. 27, 1916—S 60 FEET OF N 85 feet Lot 5 L, M, 5th and 6th Sts., Sacramento. A Cordoza vs Michael McMorry $15.82

DWELLING
NO. 1110 THIRTIETH ST., Sacramento. One-story dwelling.
Owner.....H. C. Muddox, 2930 K St., Sacramento.
Architect ...None.
Contractor..Sam Mackey, Crandall Ave., Sacramento.
COST, $1950

FRAME DWELLING
OHIO AVE. on Lot 817 Wright & Kimbrough Sub 22, Sacramento. One-story 5-room frame dwelling.
Owner.....Charles Hansen, 114 22nd St., Sacramento.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
NO. 1635 CLARK AVE., Sacramento. One-story frame dwelling.
Owner.....Carl Koch, 3330 Carnell Ave., Sacramento.
Architect ...None.
Day's work. COST, $1500

ALTERATIONS
NO. 1228 K ST., Sacramento. New foundation for flats.
Owner.....J. Wheeler, Premises.
Architect ...None.
Day's work. Cost, $600

REPAIRS
NO. 1616 F ST., Sacramento. Repair fire damage in dwelling.
Owner.....L. C. Simpson, Premises.
Architect ...None.
Contractor..I. P. Schreckengost, 2317 26th, St., Sacramento.
COST, $400

FRAME DWELLING
N 80 FEET OF E ½ LOT 4 I, J, 21st and 22nd Sts., Sacramento. Two-story frame dwelling.
Owner.....W. D. Russell, Orland, Cal.
Architect ...None.
Contractor..W. C. Cippa Bros., 311 21st St., Sacramento.
COST, $7000

ELECTRIC SIGN
NO. 1100 K ST., Sacramento. Erect electrical sign.
Owner.....Pacific Gas & Electric Co., Premises.
Architect ...None.
Contractor..John A. Crombach, 1005 J St., Sacramento.
COST, $2700

DWELLING
LOT 71 HIGH SCHOOL TRACT, Sacramento. Dwelling.
Owner. ...A. W. Briare, 1711 N St., Sacramento.
Architect ...None.
Contractor..Chatterton Bros., 3126 T St. Court, Sacramento.
COST, $2500

ALTERATIONS
E SEVENTH ST., bet. J and K Sts.; No. 1011 7th St., Sacramento. Alterations etc., of Pioneer Hall Building.
Owner.....Sacramento Society of California Pioneers.
Architect ...F. H. Schardin, 412 Forum Bldg., Sacramento.
Contractor..John E. Harris, 1114 P St., Sacramento.
Filed Mar. 27, '16. Dated Mar 25, '16.
COST, $1960

FRAME DWELLING
LOT 40 MONTE CLAIR TRACT, Sacramento. One-story frame dwelling.
Owner.....A. K. Klingman, 109 Monte Clair Ave., Sacramento.
Architect ...None.
Day's work. COST, $1500

FRAME FLATS
E ½ OF N ½ LOT 4 I, J, 20th and 21st Sts., Sacramento Frame flats.
Owner.....W. D. Russell, Orland, Cal.
Architect ...None.
Contractor..Cippa Bros., 314 21st St., Sacramento.
Filed Mar. 29, '16. Dated Mar. 2, '16.
COST, $6730
NOTE:—1st report Mar. 29, 1916.

TOILETS, ETC.
NO. 611 G ST., Sacramento. Build toilets and floors in factory.
Owner.....California Fruit Canners' Association, Premises.
Architect ...None.
Contractor..Peter Leoni, 1330 V St., Sacramento.
COST, $800

OIL TANK
NO. 3106 MADRONE AVE., Sacramento. Place 300 gallon oil tank under side walk.
Owner.....E. Nuding, Premises.
Architect ...None.
Contractor..Sacramento Burner Oil Co., 2624 M St., Sacramento.
COST, $300

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

PLASTERING
SE COR. MAIN AND SUTTER STS., Stockton. All plain and ornamental plastering for one-story Class "A" bank building.
Owner.....Stockton Savings Bank by P. J. Walker Co., Agents, Commercial & Savings Bk. Bldg., Stockton and Monadnock Bldg., S. F.
Architect ...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..Floodberg & McCaffery, Monadnock Bldg., S. F.
Filed Mar. 22, '16. Dated Mar. 16, '16.
Semi-monthly payments..... 75%
TOTAL COST, $3300
Bond, $2650. Surety, Aetna Accident & Liability Co. Limit, 30 days after notice. Forfeit, amount of damage. Plans and specifications filed.

ALL ROUGH AND FINISHED WOODwork on above.
Contractor..T. H. Meek Co., 1132 Mission, San Francisco.
Filed Mar. 22, '16. Dated Mar. 13, '16.
Monthly payments of..... 75%
TOTAL COST, $2399
Bond, $1200. Surety, Hartford Accident & Indemnity Co. Limit, 20 days after notice to begin. Forfeit, amount of damage. Plans and specifications filed.

ALL ELECTRICAL WORK ON ABOVE.
Contractor..Ne Page-McKenny Co., 49 New Montgomery, S. F.
Filed Mar. 22, '16. Dated Mar. 1, '16.
Payments same as above.....
TOTAL COST, $1624
Bond, $812. Surety, United State Fidelity & Guaranty Co. of Maryland. Limit, as rapidly as other work permits. Forfeit, amount of damage. Plans and specifications filed.

FRAME BUILDING
LOT 6 BLK 48 East, Stockton. All work for one and one-half-story frame building (soda works).
Owner.....H. E. Molen, 340 N-Hunter St., Stockton.
Architect ...None.
Contractor..McPhee & Totten, 5 N-California, Stockton.
Filed Mar. 29, '16. Dated Mar. 20, '16.
Concrete walls finished.....$100
Concrete floor finished..... 100
Frame up 400
Enclosed and windows in..... 400
Plastering finished 400
Building completed 400
Usual 35 days..... 550
TOTAL COST, $2350
Bond, $1175. Sureties, P. C. Arthur and B. Granich. Limit, 30 days from Mar. 21. Forfeit, none. Plans and specifications filed.

BRICK SCHOOL
LATHROP, San Joaquin County. All work for six-room brick school.
Owner.....Lathrop School District.
Architect ...Stone & Wright, San Joaquin Bank Bldg., Stockton
Contractor..F. Zinck, 141 E-Maple St., Stockton.
Filed Mar. 30, '16. Dated Mar. 25, '16.
Monthly payments of..... 75%
Usual 35 days.....Final
TOTAL COST, $11,190
Bond, $5600. Sureties, R. B. Teefy, E. Woodruff and F. E. Goodell. Limit, 100 days. Forfeit, $5 per day. Plans and specifications filed.

FRAME FLATS
LOT 15 BLK 115 East Center Street, Stockton. All work for two-story (4) frame flats.
Owner.....Mrs. Elizabeth McHugh, N-Sutter St., Stockton.
Architect ...Ralph P. Morrell, I. O. O. F. Bldg., Stockton.
Contractor..McPhee & Totten, 5 N-California St., Stockton.
Filed Mar. 29, '16. Dated Mar. 29, '16.
Rough frame up.....$1000
Enclosed and roof on..... 1000
Plumbing tested and plaster finished 1000
Inside wood finish completed... 431
Usual 35 days..... 1144
TOTAL COST, $4575
Bond, $2300. Sureties, S. W. Carman and F. J. McCan. Limit, 70 days. Forfeit, none. Plans and specifications filed.

CHURCH
MANTECA, CALIFORNIA. All work except excavation, grading, foundations, electrical work, plumbing, interior painting and tinting and painting of roof for church.
Owner.....Roman Catholic Archbishop, 1100 Franklin St., San Francisco.
Architect ...Peter L. Sala, Commercial Savings Bk Bldg., Stockton
Contractor..D. W. Baysinger, Manteca, California.
Filed Mar. 23, '16. Dated Mar. 7, '16.
Monthly payments of..... 75%
60 days after.....Final
TOTAL COST, $2674
Bond, $1400. Sureties, J. J. Overshiner and Joshua Cowell. Limit, 60 days. Forfeit, none. Plans and specifications filed.

ORNAMENTAL IRON WORK
SE MAIN AND SUTTER STS., Stockton. All ornamental iron and bronze work, except window frames and sash on one story Class "A" bank building.
Owner.....Stockton Savings Bank by P. J. Walker Co., Agents, Commercial & Savings Bk. Bldg., Stockton.
Architect ...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..California Artistic Metal & Wire Co., 365 7th, S. F.
Filed Mar. 22, '16. Dated Mar. 17, '16.
Monthly payments of..... 75%
TOTAL COST, $5800
Bond, $2900. Surety, National Surety Co. Limit, 20 days after notice. Forfeit, amount of damage. Plans and specifications filed.

BOARD ORDERS SIDE WALK CONSTRUCTION.

The Board of Public Works has instructed the City Engineer to prepare proceedings for the construction of side walks on Tenth avenue, between Geary and Clement streets.

C. C. Christensen has been released by the Works Board from his contract to construct side walks on Leavenworth street, between Green and Vallejo. The same action was taken on the contract of Christensen for side walks on Dolores street.

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ROSS E PIERCE - Manager
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Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg. Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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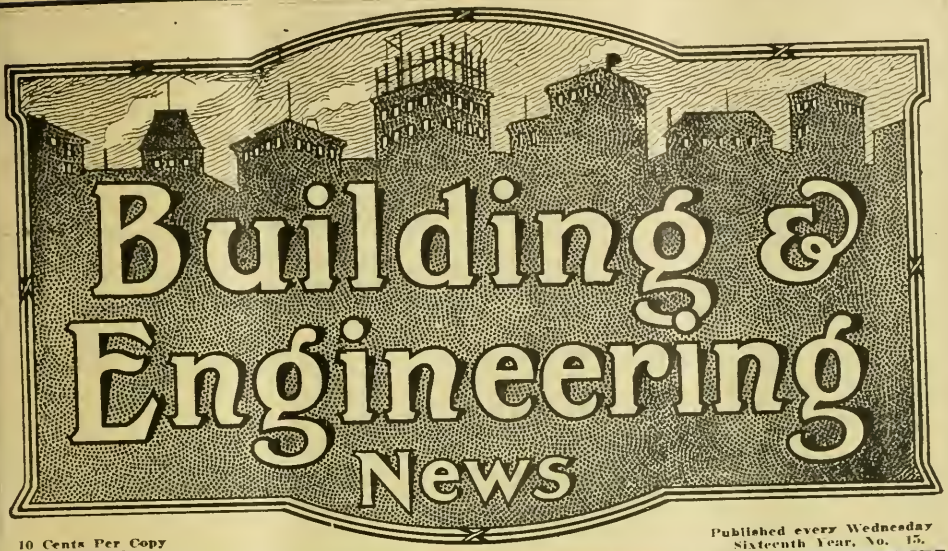

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

Issued Weekly, $3.00 per year | San Francisco, April 12, 1916 | Sixteenth Year, No 15

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Supervisors Pass New Building Ordinance.

Supervisor Brandon Only Protestant. New Ordinance Passed to Print and Will Undoubtedly Become Operative.

Notwithstanding the determined protest of the Builders' Exchange, General Contractors' Association, California Building Law Association, Master Plasterers' Association, Masons & Builders' Association, Journeymen Plasterers' Union, Bricklayers' Union and local distributors of metal lath, sixteen of the Supervisors passed to print the ordinance amending the building law so as to allow plaster board to be used in Class "A" buildings and public school houses, with the exception that it is excluded from use in elevator shafts and stair ways.

Senator William S. Scott advocated the cause of the protestants and showed conclusively that in New York, Chicago, Baltimore, Pittsburg, Philadelphia, Seattle and other large cities that plaster board is used only in inferior structures.

He showed also that while metal lath is used in all places that plaster board is used, metal lath also goes into all classes of buildings as a thorough fireproof material.

He also showed that the rate making bodies of the fire insurance companies all over the United States place a heavy penalty on buildings and their contents when plaster board is used.

Willis Polk addressed the Board and urged them not to pass such an ordinance. He recalled the splendid service rendered by metal lath as a fire resistant during the great fire of 1906, and he declared that the splendid Merchants' Exchange Building would have been a total wreck had it not been for metal lath.

Supervisor Edward J. Brandon was the only member of the Board who realized the danger of the ordinance under consideration and he proposed that plaster board be confined to Class "C" construction until such time as it had proved its worth as a fire resistant and as a suitable structural material for class "A" Buildings.

Supervisors Ralph McLeran and Charles A. Nelson made the fight for the use of plaster board and the former stated that he would welcome any material no matter what it was made of if it would take the place of steel.

The representatives of the bodies protesting the passage of this ordinance propose to try to prevail upon the Supervisors to refrain from giving it final passage, and as a last resort they will appeal to the Mayor in an endeavor to have him veto the measure.

The following editorial, reprinted from the San Francisco Chronicle of April 4, appears timely in view of the new building ordinance under consideration by the San Francisco Board of Supervisors:

As the result of the catastrophe of 1906, which demonstrated the danger of shoddy building construction, our building ordinances have been gradually perfected until it is said that if carefully observed there is less danger from fire in this than in any other American city.

The majority of building contractors and owners of property which they are improving for sale are constantly endeavoring to evade the restrictions, because they cost money and competition is very severe. Price counts heavily and of two buildings having the same exterior appearance that which will sell cheapest is surest to go. The ordinary purchaser never thinks to inquire how faithfully the building ordinances have been observed.

Material men, also, whose products are excluded and the workmen who put them in place all endeavor to bring influence to bear on the Supervisors to relax the ordinances in their favor.

There should be no relaxation to please anybody. Relaxation is paid for tenfold by those whose insurance rates are thereby raised and twentyfold by those whose property happens to be burned.

The loss by fire in American cities is appalling. Such losses do not occur in European cities. The cost of insurance in Europe is trifling and the cities get on in safety with fire departments and apparatus which an American goodsized village would laugh at.

There are those in this country who seriously contend that it will be a blessed day for the United States when wood gets so scarce and dear that its free use in any form of building will be impossible.

The great fires of Chicago, Boston, Baltimore, San Francisco and some smaller cities have demonstrated that it is utterly reckless to construct partitions entirely of wood with covered spaces for fire to run in.

After the Chicago fire the fire limits were promptly extended to the city boundary. We have made no important extension of our fire limits and pressure has been great to encourage rebuilding within the limits by makeshift devices of low cost.

Thus far successive Board of Supervisors have resisted all this pressure. There should be no relaxation now. It will not pay.

And we suggest to all who may be contemplating the purchase of a new building that they make particular inquiry as to the fidelity with which the building ordinances have been observed.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $42,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Fifty Vara District. Will contain a total of 28 suites of two and three rooms. Interior finish pine and gum with some white enamel. Hardwood floors. Steam heat, oil burning equipment and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot. Hot water supply. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $30,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, George H. Roundey, 995 Market street, S. F. Location, south Sacramento east of Laguna, covering an area of 59½ by 110 feet. Will contain 12 apartments of three and four rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and hot water supply. Bath rooms tile wainscot and composition floors. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 7 story and base. Class A construction. Cost not stated. Architect, Walter H. Parker, 12 Geary street, S. F. Owners, Hays Estate. Location, California near Taylor. Will contain a number of two, three and four room apartments. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, oil burning system and hot water supply. Vacuum cleaning and automatic elevator. Marble and tile wainscot. Bath rooms finished in tile. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

OAKLAND, CAL.—Apartment house, 3 story and base, brick and steel, $40,000. Architect, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest 22nd and Telegraph. Will contain two and three room apartments. Interior finish pine and elm panels with some white enamel. Hardwood floors Steam heat, oil burning equipment and hot water system. Bath rooms composition floors and tile wainscot. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $6,000. Architects, J. C. & M. L. Newsom, 1748 Broadway, Oakland. Owner, Louis H. Short. Location, west Brush south of 11th street. Will contain 16 rooms arranged in two and three room apartments. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Bath rooms composition floors. Exterior covered with cement plaster. Plans complete and in the hands of the owner who will let all contracts.

OAKLAND, CAL.—Apartment house alterations, 2 story and base, frame, $2,000. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, W. H. Edwards. The present frame dwelling will be altered into modern two and three room apartments. Work will include interior plastering, partition work, interior finish of pine and elm, hardwood floors and wall beds. Plans are being prepared.

LOS ANGELES, CAL. — Apartment house, 4 to 7 story and base, reinforced concrete. Cost not stated. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, C. F. Borton, Hibernian Bldg., L. A. Location, Olive street north of 3rd, covering an area of 51 by 140 feet. Will contain a large number of two room apartments. Interior finish pine, hardwood and white enamel. Steam heat, oil burning system and hot water supply. Automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL. — Apartment house, 4 story and base, brick and steel. Cost not stated. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. F. Head. Location, Hartford avenue between 7th and 8th, covering an area of 50 by 100 feet. Will contain 55 rooms arranged in two and three room apartments. Interior finish pine and elm panels. Some hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick and cement plaster. Plans complete and figures being taken.

LONG BEACH, LOS ANGELES CO., CAL.—Apartment house, 3 story and base. Class C construction. Cost not stated. Architect, Frank H. Gentry, Union Oil Bldg., L. A. Owner, J. Westley Robinson. Location, Ocean avenue, Park and Hart streets, covering an area of 60 by 118 feet. Will contain 38 apartments of two and three rooms. Interior finish pine and redwood. Private baths and wall beds. Bath rooms composition floors. Steam heat and oil burning equipment. Exterior faced with pressed brick. Plans complete and figures being taken.

SEATTLE, WASH—Apartment house, 8 story and base, reinforced concrete, $200,000. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owners, Coast Exchange Investment Co. Location, Northwest corner of Boren and John streets, covering an area of 60 by 120 feet. Interior arranged for two, three and four room apartments. Pine, hardwood and white enamel finish. Hardwood floors. Automatic elevators, steam heat and hot water supply. Wall beds. Bath rooms finished in tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

Contracts Awarded.

SAN FRANCISCO—Apartment house, 6 story and base, reinforced concrete, $75,000. Architect, Sylvain Schnaittacher, 233 Post street, S. F. Owner, Dr. Hartland Law. Contractors, MacDonald & Kahn, Rialto Bldg., S. F. Contract price, $75,000.

SEATTLE, WASH. — Apartment house, 3 story and base, brick, $30,000. Architect, F. H. Fowles, Central Bldg., Seattle. Owner, J. S. Williams. Contractors, Walter & Brady, 4049 Latoma avenue, Seattle. Contract price, $30,000.

BONDS.

HANFORD, KINGS CO., CAL.—The proposition to vote $66,000 for the purchase of sites and the erection of two schools was turned down at a recent election. As the improvements are needed it is probable that another election will be called.

SANTA ROSA, SONOMA CO., CAL.—The Board of Education has decided to call an election to submit to the voters the question of issuing and selling bonds of $125,000 for the construction of two new school buildings, on the sites of the Lincoln and Fremont schools.

ASTORIA, ORE.—The School Board has decided to proceed with the sale of $100,000 school bonds voted recently for the erection of a new school.

SANTA ANA, ORANGE CO., CAL.—The City Board of Trustees has decided to call an election to vote $20,000 bonds of which $9,000 will be used for the purchase of street equipment and $11,000 for rebuilding the Flower street bridge.

MERCED, MERCED CO., CAL.—The Board of Supervisors and the Chamber of Commerce are considering plans and specifications prepared by County Surveyor Cowell for the establishment of highways and trunk lines leading to the west side and also up and down the west side and other sections of the county. The approximate distance covered by these proposed highways and trunk lines is 100 miles and the cost will be determined by the committee and also the amount of bonds necessary and the tax rate that would have to be assessed. This committee will also circulate petitions throughout the county and if the interest manifested warrants the continuation of the work they will prepare the data for a special bond election.

TERRA BELLA, TULARE CO., CAL.—Formal report has been filed by the State Engineer approving of the Terra Bella Irrigation project in Tulare County, which will cover 12,000 acres of citrus lands south of Porterville. The estimated cost of the proposed system of deep wells and diversion system is $1,100,000 as mapped out by S. E. Kleffer of San Francisco, the chief engineer in charge. It is expected that a date for a bond election will be set

within the next few days to vote funds to finance construction of the proposed project.

LONG BEACH, LOS ANGELES CO., CAL.—April 25th has been settled definitely as the date of the proposed school bond election. A total amount of $360,000 bonds are to be voted, including $280,000 for the purchase and improvement of site and for the erection of two intermediate school buildings, $37,000 for altering the present high school auditorium into a library and study rooms, and the construction of a new auditorium at the high school, and $13,000 for purchasing school lots, making alterations or additions to grammar school buildings, etc. W. Harace Austin, 26 Elm avenue, Long Beach, has been selected as architect.

MODESTO, STANISLAUS CO., CAL.—A road bond issue for $1,500,000 will probably be the next issue to be placed before voters in Stanislaus County. The proposed improvement embraces about 158½ miles of highway.

PETALUMA, SONOMA CO., CAL.—It is probable that an appropriation of $60,000 for a new post office building in Petaluma will be made at this session of Congress, according to information received from Washington.

BRIDGES, DAMS AND HARBOR WORK

SAN FRANCISCO—Dry dock, steel and reinforced concrete, $1,200,000. Engineer, Howard C. Holmes, 112 Market street, S. F. Owners, Union Iron Works. Location, Hunters Point. Plans and specifications have been completed for the largest dry dock on the Pacific Coast and are now out for figures. Bids are to be opened on April 27th. The dock will be 1020 feet long, 152 feet wide on top, 110 feet on the bottom and will have a depth of 47½ feet. A large coffer dam will be constructed and the greater portion of the dock cut from solid rock, which will then be lined with reinforced concrete. The intake and discharge tunnels will be constructed of reinforced concrete. A large amount of steel will be used. Plans can be secured from the engineer.

SARATOGA, SANTA CLARA CO., CAL. — Bridges, reinforced concrete. Cost not stated. Engineer, Town Engineer, Saratoga. Owners, Town of Saratoga. The Town Trustees have found it necessary to build two or three new bridges between Saratoga and Congress Springs, and in a short time the present road will be closed for the necessary repairs. Further mention will be made of this work.

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor Coulter, San Andreas. Owners, Calaveras County. W. S. Coulter, County Surveyor, at the last meeting of the Board of Supervisors was instructed to make the necessary measurements and profile drawings in order that plans and specifications for the construction of a new reinforced concrete bridge over the Calaveras River at the present site of the old so-called "Genoohio Bridge" may be drawn.

DALLAS, ORE.—Bridges, steel and concrete. Cost not stated. Engineer, County Surveyor, Dallas. Owners, Polk County. The County Clerk of Polk county is taking bids until 1 p. m. April 25th for several bridge contracts, involving three new structures, and moving one bridge and placing it in a new position on new concrete abutments. The work includes the taking down, moving and erecting of the steel bridge in North Independence, which is to be moved to a position on Soap Creek, about 3½ miles southwest of Buena Vista, and for the construction of concrete abutments for this bridge. Second—For moving old fill to make new fill, about 20,000 cubic yards of earth, in North Independence. Third—For constructing a concrete bridge in North Independence. Fourth—For constructing a wooden bridge across the Luckiamute River at Falls City. Fifth—For constructing a wooden bridge across Mill Creek, 2½ miles south of Buell bridge. For the North Independence concrete bridge the bidders are to furnish their own plans from specifications on file with the court at Dallas.

MERCED, MERCED CO., CAL. — Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Merced. Owners, Merced County. The Supervisors have rejected all bids received for the construction of bridge No. 46 in Merced County, and new bids will be called for.

Contracts Awarded.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridges, reinforced concrete. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractor, A. A. Patterson, Santa Maria. First bridge over Zaca Creek at station 399 plus —, $4,790; second bridge over Zaca Creek at station 382 plus 60, $4,732; third bridge over Zaca Creek, $7,463. Engineer's estimate on the three bridges, $18,000.

CHURCHES

ASTORIA, ORE.—Church, 1 story and base, reinforced concrete, $22,000. Architects, Whitehouse & Fouilhoux, Wilcox Bldg., Portland. Owners, Methodist Church. Will contain a large social hall, main auditorium and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass. Steam heat. Exterior faced with cement plaster. Plans being prepared.

FACTORIES AND WAREHOUSES

OAKLAND, CAL.—Factory, 1 story, reinforced concrete, $25,000. Engineer, Maurice C. Couchot, 110 Sutter street, S. F. Owners, Pacific Tread Tire Co. Location, Foothill Boulevard. This is the first unit of a large plant. Construction will be fireproof throughout. Interior finish pine. Metal window sash and frames and metal covered doors. Special machinery not included in estimated cost. Exterior faced with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Creamery, 2 story and base, reinforced concrete, $20,000. Architect, Iomes W. Plachek, Achoson Bldg., Berkeley. Owner, Shuey Creamery Co. Location, Telegraph avenue near Stuart street. Will contain a retail store in the front of the building and factory in rear and upper floor. Interior finish pine with a considerable amount of tile. Cement floor. Special machinery. Exterior faced with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Factory, 3 story and base, reinforced concrete. Cost not stated. Architect, A. W. Smith, 1010 Broadway, Oakland. Owner, E. R. Tutt, leased to Western Casket Co. Location, 19th and Harrison streets, covering an area of 100 by 160 feet. Bids have been opened and show J. F. Dingwell, 2021 West street, Oakland, low. A contract will be awarded shortly.

SEATTLE, WASH.—Factory, 4 story and base, reinforced concrete, $60,000. Architect, L. L. Mendell, 4th avenue and South Waller. Will cover an area of 120 by 270 feet. Construction fireproof. Interior finish rough. Concrete floors. Automatic sprinklers. Metal window sash and frames. Separate power plant. Exterior faced with cement plaster. Plans being prepared.

PORTLAND, ORE. — Warehouse, 2 story and base, mill construction, $15,000. Architect, Lewis I. Thompson, Central Bldg., Portland. Owners, Portland Woolen Mills. Location, St. Johns street, covering an area of 150 by 60 feet. Construction fireproof. No interior finish except in office portion. Special machinery. Exterior covered with pressed brick. Plans complete and work to be done by Day Labor.

Contracts Awarded.

SAN FRANCISCO—Factory, 2, 3 story and 1, 1 story. Class A construction, $75,000. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, D. Ghirardelli & Co. Excavating and concrete work awarded to H. L. Peterson, 62 Post street. Brick and terra cotta to H. H. Larsen & Bro., 62 Post street. Carpenter work, hardware, glass and plastering to Peterson & Persson, 62 Post street. Sheet metal work to Morrison & Co., 769 McAllister. Steel work to Central Iron Works, 631 Florida St.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $7,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, C. Ferrero. Location, north Telegraph Place east of Good Children street. Will contain two flats of five and six rooms. Interior finish pine and redwood. Open fire places and tile mantels. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, Charles A. Linebaugh, 1860 Geary street, S. F. Location, north Anza west of 9th avenue, covering an area of 25 by 83 feet. Will contain two flats of six rooms each with basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Hardwood floors. Automatic water heaters. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 3 story and base, frame, $12,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, northwest California and 5th avenue, covering an area of 32½ by 66 feet. Will contain six flats of four, five and six rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered

with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Flat alteration, 2 story and base, frame, $4,200. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location, West street near 32nd. Work will consist of altering a two-story frame dwelling into modern flats of five and six rooms. Included in the work will be interior partitions, plastering, plumbing, painting and electric work. Hardwood floors and open fire places are included. Exterior will be faced with cement plaster. Plans are being prepared.

GARAGES.

SAN FRANCISCO—Garages, 2, 2 story and base, reinforced concrete, $30,000. Engineer, L. S. Rosner, Merchants' Exchange Bldg., S. F. Owner, S. Meyers. Location, north Bush west of Van Ness, covering an are of 50 by 120 and 60 by 120. Interior finish rough. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exteriors faced with cement plaster. Work to be done by MacDonald & Kahn, Rialto Bldg., on a percentage basis.

OAKLAND, CAL.—Garage, 1 story, mezzanine and base, brick and steel, $20,000. Architects, Richardson & Burrell, 202 East 12th street, Oakland. Owner, Edward Sommarstrom, 202 East 12th street. Location, Broadway near 28th, covering an area of 100 by 127 feet. Designed for a commercial garage. Interior finish pine. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with pressed brick. Plans being prepared.

LOS ANGELES, CAL.—Garage and sales rooms, 5 story and base. Class A construction. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, M. H. Newmark, leased to J. W. Leavitt Co. Location, northeast 12th and Hope streets, covering an area of 100 by 150 feet. Construction fireproof, complete steel frame and brick and concrete walls. Interior of office portion finished in hardwoods and tile. Steam heat, oil burning plant, elevator service and vacuum cleaning. Patent store fronts and marble bases. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

LOS ANGELES, CAL. — Garage, 3 story and base. Class C construction. Cost not stated. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owner, Mrs. H. M. Olmsted. Contractors, The Broadway Construction Co., 235 East Washington street, L. A. Contract price not stated.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular No. 148.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office circular No. 148, opened March 18:

Bid 1, Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

2. Heywood Bros. & Wakefield Co., 737 Howard street, San Francisco, Cal.

3. W. P. Fuller & Co., Mission and Beale streets, San Francisco, Cal.

4. M. J. McNally, 67 Main street, San Francisco, Cal.

5. Pacific Hardware & Steel Co., 7th and Townsend streets, San Francisco, Cal.

6. Gorham Fire Apparatus Co., 127 Mission street, San Francisco, Cal.

7. F. J. Logemann Chair Mfg. Co., St. Louis, Mo.

8. Pacific Fire Extinguisher Co., 507 Montgomery street, San Francisco, Cal.

9. Pacific Trading Co., Blake Block, Oakland, Cal.

10. Western Electric Co., 680 Folsom street, San Francisco, Cal.

11. The John Douglas Co., 571 Mission street, San Francisco, Cal.

12. W. S. Ray Mfg. Co., 220 Market street, San Francisco, Cal.

13. Eugene Dietzgen Co., 18 1st street, San Francisco, Cal.

14. Mark-Lally Co., 235 2nd street, San Francisco, Cal.

15. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.

16. John Clark Saddlery Co., Portland, Ore.

17. Pacific Butchers' Supply Co., 211 4th street, San Francisco, Cal.

18. Hooper & Jennings, 100 Howard street, San Francisco, Cal.

19. Zellerbach Paper Co., 534 Battery street, San Francisco, Cal.

20. Universal Trading Co., 171 Broadway, New York City.

21. Crane Co., 2nd and Brannan streets, San Francisco, Cal.

22. Handlan-Buck Mfg. Co., St. Louis, Mo.

23. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

24. American-La France Fire Engine Co., 660 Mission street, San Francisco, Cal.

25. Levenson Co., 325 Market street, San Francisco, Cal.

26. Holbrook, Merrill & Stetson, 6th and Bloxume streets, San Francisco, Cal.

27. John Rothschild & Co., Market and Spear streets, San Francisco, Cal.

28. Marshall-Newell Supply Co., 142 Steuart street, San Francisco, Cal.

29. Johnson & Joseph Co., 34 Sacramento street, San Francisco, Cal.

30. The Bean Son Co., 660 Howard street, San Francisco, Cal.

31. Wolverine Brass Works, 206 Natoma street, San Francisco, Cal.

32. S. H. Frank Co., 416 Battery street, San Francisco, Cal.

33. Pacific Coast Paper Co., 545 Mission street, San Francisco, Cal.

34. Nathan-Dohrmann Co., Geary and Stockton streets, San Francisco, Cal.

35. B. F. Goodrich Rubber Co., 401 Mission street, San Francisco, Cal.

36. Bonestall Co., 118 1st street, San Francisco, Cal.

37. M. Greenberg's Sons Co., 225 Beale street, San Francisco, Cal.

38. The George Lawrence Co., Portland, Ore.

39. International Harvester Co., Monadnock Bldg., San Francisco, Cal.

40. Dolliver & Bros., 619 Mission street, San Francisco, Cal.

Item 1, 8,000 prs shoestrings, 54-in—Bid 20, 3.69c pr; 32, 3½c; 38, 3¾c; 40, 3.45c, accepted.

2, 6 hooks, boat, plain, No. 5—Bid 4, $2.50 ea; 29, $1.75, accepted.

10, 2 books, engineer' topographical—Bid 13, 75c ea, accepted.

11, 1 chisel, caulking, plumber's—Bid 26, 25c ea, accepted.

12, 13, 14, and 15, 4 full pans colors, water—Bid 13, 15c full pan, accepted.

16.1 grinder, Stewart's new automatic—Bid 1, $6.50; 23, $5.70, accepted; 38, $6.80.

17, 1 shaft, for horse-clipping machine—Bid 1, $2.25, accepted; 23, $2.48; 38, $2.40.

18, 4 pkgs paste, grinder—Bid 1, 60c lb; 23, 30c, accepted.

19, 800 handles, shovel, short—Bid 1, 22c ea; 5, 23c; 20, 26.47c; 22, 55c and 65c; 23, 22c, award pending.

21, 300 do, shovel, long—Bid 1, 17c ea; 20, 22.97c; 22, 55c and 65c; 23, 19c; award pending.

32, 300 do, spade, short—Bid 1, 22c ea; 20, 26.47c; 22, 55c and 65c; 23, 21¾c; award pending.

33, 9,000 lbs naphtaline, flake—Bid 18, 7.02c lb; 20, 19.73c, accepted; 27, 22.23c.

35, 2,400 parts, barrack chairs, rounds, lower—Bid 2, 2½c ea, accepted; 7, 3c.

36, 2,400 do, rounds, upper—Bid 2, 2½c ea, accepted; 7, 3c.

37, 1,600 do, rods, rear—Bid 2, 2c ea; 7, 1¾c, accepted.

38, 600 do, rods, side—Bid 2, 2c ea; 7, 1½c, accepted.

39, 1,200 do, slats, top—Bid 2, 12c ea, accepted; 7, 13½c.

40, 2,600 do, spindles, back—Bid 2, 2½c ea, accepted; 7, 2½c.

41, 1,200 do, stretchers, rear—Bid 2, 1¾c ea; 7, 1½c, accepted.

42, 2,000 do, stretchers, side—Bid 2, 1¾c ea; 7, 1½c, accepted.

44, 36 heaters, egg, Dover No. 150—Bid 1, 13c ea; 5, 15½c; 12, 20c; 23, 13c, accepted; 25, 12c; 26, 13c.

45, 200 dippers, enamelware, 1-qt—Bid 23, 10½c ea; 26, 19c, accepted; 34, 12c.

46, 80 do, 2-qt—Bid 23, 11.25c ea; 26, 22c, accepted; 34, 14c.

47, 24 kettles, tea, 7-qt—Bid 1, 70c ea; 5, 70c; 23, 65.6c; 26, 64c, accepted; 34, 72c.

48, 24 do, 6-qt—Bid 1, 65c ea; 23, 60c, accepted; 26, 54c; 34, 67c.

49, 84 knives, butcher, 10-in—Bid 1, 60c ea; 17, 94c; 20, 49c, accepted; 34, 35c (90 days delivery).

50, 18 do, 14-in—Bid 1, $1.30 ea; 17, $1.40; 20, 98c, accepted; 34, 47c.

51, 21 pots, coffee, 12-qt—Bid 12, $1.20 ea; 26, $3.25; no award.

52, 60 balls, float, coppered, 7-in—Bid 11, 35c ea (for glass); 14, $1.40, accepted; 26, $1.60.

53, 3,600 balls, Fuller, hot and cold, ½-in—Bid 21, $1.55 per 100; 26, 60c; 31, $1.70; award pending.

54, 2,400 do, ⅜-in—Bid 21, $2.30 per 100; 26, 95c; 31, $2.10.

55, 36 bells, bicycle—Bid 1, 34c ea; 30, 21c, accepted.

56, 12 boilers, range, galvanized iron, 40-gal—Bid 14, $13.15 ea, accepted; 26 $17.

57, 1,000 bolts, stove, f. h. ⅜x2 in—Bid 23, 55c per 100, accepted.

58, 500 do, ⅜x2¼ in—Bid 23, 63c per 100, accepted.

59, 4,000 sheets bristol board, white—Bid 3, $2.96 per 100 sheets; 19, $2.80, accepted; 33, $2.05; 36, $2.80.

60, 48 brushes, sink, solid back—Bid 23, 9c ea, accepted; 25, 8c.

61, 27 gr buttons, tufting—Bid 16, 15c gr; 38, 15c, accepted.

62 and 63, 2 expanders, automatic coupler—Bid 6, $13.98 ea; 22, $13, accepted; 24, $18.

66, 2,000 links, repair, open, 3-16x1 in—Bid 1, 60c gr; 16, $1.50; 23, 49c, accepted.

67, 3,000 do, ¼x1¼ in—Bid 1, 75c gr; 16, $2; 23, 56c, accepted.

68, 200 ft pipe, ammonia, ¼-in—Bid 14, 14½c ft; 21, 4c, no award.

69, 200 ft do, 3-in—Bid 14, 67c ft; 21, 44.1c, accepted.

70, 67 lbs pipe, brass, ½-in—Bid 14, 56c lb; 21, 50c, accepted; 26, 56c; 28, 53c.

71, 12 pumps, air, bicycle—Bid 1, 25c ea, accepted; 30, 27c.

72, 60 rings, expansion, brass, 1½-in diam—Bid 6, 10½c ea; 22, 12½c; 24, 10c; 37, 8½c, accepted.

73, 60 do, 2-in diam—Bid 6, 12.1c ea; 22, 14c; 24, 12c; 37, 11½c, accepted.

74, 216 do, 2½-in diam—Bid 6, 20½c ea; 22, 16c, accepted; 24, 16c and 17c; 37, 17¼c.

75, 15,000 rivets, tubular, No. 1, 3-16 in—Bid 16, 70c M; 20, 67c; 32 77c; 38, 73; 40, 65.9c, accepted.

76, 15,000 do, No. 3, 3-16 in—Bid 32, $1.44 M; 20, $1.14, accepted; 40, $1.159; 38, $1.45.

77, 15,000 do, No. 3, 5-16 in—Bid 32, $1.48 M; 16, $1.37; 20, $1.19, accepted; 40, $1.219; 38, $1.45.

78, 200 lbs tape, insulating, ½-in—Bid 9, 66.39c lb; 10, 50c; 15, 39.6c, accepted; 20, 37c, 42c and 54.9c; 23, 24c; 30, 21½c.

79, 150 lbs thread, machine, 3-cord—Bid 16, $1.80 lb; 32, $1.62; 38, $1.80; 40, $1.59, accepted.

80, 24 tires, bicycle—Bid 1, $2 ea; 30, $2; 35, $2, accepted.

81, 24 tubes, inner, bicycle—Bid 1, 70c ea; 30, 85½c; 35, 69c, accepted.

82, 100 valves, gate, ¾-in, brass—Bid 1, 98c ea; 14, 79c, accepted; 21, 83c; 26, 80c; 28, $1.25.

83, 11,520 wicks, Army lamp—Bid 20, $3.46 gr, accepted; 22, $3.74.

84, 2,880 wicks, lantern—Bid 20, 64c gr; 22, 46c, accepted; 25, 55c.

85, 20 mowers, lawn, hand—Bid 1, $9 ea, accepted; 23, $9.45 and $10.25.

86 to 95, 1,158 parts, Deering, 2 horse mower—Bid 39, accepted, viz: 12 lifting bell cranks, 50c ea; 12 bell crank holders, 50c ea; 24 knife heads, 35c ea; 16 sets screws, 6c ea; 1,000 knife sections, 5c ea; 36 knives complete, with head, $2.10 ea; 12 pitman rods, $1.10 ea; 10 swivel hinges, $2.75

ea; 12 knife head caps and guides, 30c ea; 24 supplemental soles for inner sleeves, 50c ea.

96. 12 bits, auger, wood, No. 21—Bid 1, 75c ea; 23, 67c, accepted.

97. 12 do, No. 26—Bid 1, 95c ea; 23, 85c, accepted.

98. 24 do, No. 32—Bid 1, $1.26 ea; 23, $1.15, accepted.

99. 5,000 lbs paint, red lead, in oil—Bid 3, 11.4c lb, no award.

100. 72 btls, acid, empty—Bid 8, 15c ea; 24, 15c, accepted.

101. 96 charges, for 6-gal fire extinguisher—Bid 8, 45c ea, accepted; 24, 95c.

102. 1 ladder, roof, 20 ft—Bid 4, $15 ea, accepted; 8, 75c ft; 24, $36 ea.

103. 3 nozzles, hose, 2½-in—Bid 6, $8.42 ea; 8, $6.25, accepted; 24, $7.50.

Propelling Machinery for Battleships.

The following bids were received by the supply officer, navy yard, Washington, D. C., March 27 for 2 sets of propelling machinery for the new battleships:

Westinghouse Electric & Mfg Co., Pittsburgh, Pa., delivery f. o. b. works, $1,027,000; delivery at the Mare Island and New York navy yards, $1,073,000. A list of spare parts accompanied this bid, but was not quoted.

General Electric Co., Schenectady, N. Y., f. o. b. works, $1,024,911; spare parts, $97,089.

Lighthouse Service Engineer.

The contract for furnishing two oil engines for Slip Point light station, Wash., has been awarded to Northwestern Iron Works, Seattle, Wash., at $930.

Lighthouse Service, Steel Work.

The following bids were received by the lighthouse inspector, 16th district, Ketchikan, Alaska, March 13 for steel and iron work at Hanin Rock light:

Judson Mfg. Co., San Francisco, Cal., $643; 21 days, accepted.

Northwest Steel Co., Portland, Ore., $720; 60 days.

Electro Galvanizing Works, Portland, Ore., $636; 40 days.

Westerman Iron Works, Seattle, Wash., $660; 18 days.

J. F. Duthrie & Co., Seattle, Wash., $800; 60 days.

Lighthouse Service, Buoyage.

The following bids were received by the lighthouse inspector, 2nd district, Boston, Mass., March 1 for 80 first-class wooden spar buoys for Lovells Island and Woods Hole depots:

Northern Coast Timber Co., Tacoma, Wash., $570; 15 days, accepted.

George B. Knudson, $800; 90 days.

Philip C. Dennis, $960; time not stated.

John A. Fastabend, $1,072; time not stated.

Philip Hart, $1,132; 100 days.

Hammond Lumber Co., $1,140; 90 days.

J. B. Byrnes & Sons, $1,150; 30 days.

Jordan Bros. Lumber Co., Norfolk, Va., $1,559.20; 70 days.

H. C. Cassell, $1,560; 60 days.

J. W. C. West, $2,560; 120 days.

Pacific National Lumber Co., $2,850; time not stated.

H. J. Anderson Co., $2,850; 60 days.

J. A. Spence, $3,920; 75 days.

Reclamation Service, Blast Hole Driller.

The following bids were received at the office of the U. S. Reclamation Service, Denver, Colo., on March 16 for furnishing one blast hole driller:

The Star Drilling Machine Co., Akron, Ohio, $891.

Sanderson Cyclone Drill Co., Orrville, Ohio, $1,215.

The Stearns-Rover Mfg., Co., Denver, Colo., $1,185.

Armstrong Mfg. Co., Waterloo, Iowa, $1,175.30.

The Dempster Mill Mfg. Co., Denver, Colo., $439.80.

St. Louis Well Machine & Tool Co., St. Louis, Mo., $1,085.

The American Well Works, Aurora, Ill., $850.

Medford, Ore., Shelving.

The contract for installing metal vault shelving in the U. S. post office and court house at Medford, Ore., has been awarded to Crown Metal Construction Co., Jamestown, N. Y., at $349.

HALLS AND SOCIETY BUILDINGS.

STOCKTON, SAN JOAQUIN CO., CAL.—Armory, 2 story and base, reinforced concrete. Cost not stated. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. The opening of bids on the Stockton State Armory has been postponed to Thursday, May 4th, due to May 2nd being a holiday. Official notification appears under the heading of Sealed Proposals.

BAKERSFIELD, KERN CO., CAL.—Labor temple, 2 story and base, brick, $20,000. Architect, Thomas Dupes, Bakersfield. Owners, Kern County Labor Council. Location, 1 street between 21st and 22nd streets, covering an area of 42 by 110 feet. Only preliminary plans have been prepared and construction will not be started until at least $16,000 can be raised. Further mention will be made of the work.

FRESNO, FRESNO CO., CAL.—City hall alteration, $3,760. Architect, none. Owners, City of Fresno. At the last meeting of the City Council bids were opened for remodeling the city hall basement. The bid of Gede & Gede was $3,760, and that of Howard Dickey was $4,190. Bids were taken under advisement.

VISALIA, TULARE CO., CAL.—Lodge hall, 3 story and base, brick and concrete, $50,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Elks Lodge Association. Location, Main street. Only preliminary sketches have been prepared and detailed information cannot be given at this time. Further mention will be made of the work when working drawings are prepared.

VISALIA, TULARE CO., CAL.—Lodge hall, 2 story and base, frame, $14,000. Architect, Eugene Mathewson, Forsythe Bldg., Fresno. Owners, Visalia Moose Hall Association. Will contain social rooms, banquet hall and office. Interior finish pine and hardwood with maple floors in banquet hall. Exterior faced with cement plaster. Plans being prepared.

HOSPITALS

SAN FRANCISCO—Hospital kitchen equipment. Cost not stated. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. Bids will be opened on April 14th in the offices of the architect for kitchen equipment for the new University Hospital. An official proposal appears in another column of this issue.

FRESNO, FRESNO CO., CAL.—Hospital, 2 and 3 story and base, brick and steel, $75,000. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner, Burnett Hospital. Will contain 60 private rooms, operating rooms, nurses' quarters and a number of special wards. Interior finish white enamel and tile. Hardwood floor. Steam heat and hot water supply. Oil burning equipment. Tile wainscot. Vacuum cleaning. Exterior faced with pressed brick and cement plaster. Plans being prepared.

YOUNTVILLE, NAPA CO., CAL.—Hospital cottages, frame. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be opened on May 3rd at 12 noon for constructing six frame sanitary cottages at the Veterans' Home. An official proposal appears in another column of this issue.

NORWALK, LOS ANGELES CO., CAL.—Hospital power plant. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be opened on May 1st for furnishing the boiler plant equipment for the new power house at the Norwalk State Hospital. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

PORTLAND, ORE.—Hospital, 2 story and base, brick, $26,000. Architect, Jacob Dautoff, Stock Exchange Bldg., Portland. Owner, Dr. Noble W. Jones. Location, Marshall and Lovejoy streets, covering an area of 57 by 100 feet. Will contain a number of private rooms, operating room and office. Interior finish whiteenamel and hardwood. Considerable tile will be used. Steam heat, oil burning plant and vacuum cleaning. Hot water supply. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor under the direction of the architect.

HOTELS

MARTINEZ, CONTRA COSTA CO., CAL.—Hotel addition, 2 story and base, frame. Cost not stated. Architect, A. J. Mazurette, Martinez. Owner, W. H. Panta. Addition will contain one store on the ground floor and 20 rooms and several baths on the upper floor. Interior finish pine. Hot water system. Composition floors in bath rooms. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Hotel and stores, 3 story and base. Class C construction, $30,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, Vayssie Bros. Location, corner of Polk and Post streets. Will contain five stores and a total of 35 rooms and baths. Interior finish pine and elm panels. Some hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning system. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

IRRIGATION PROJECTS

TERRA BELLA, TULARE CO., CAL.—Irrigation work. Cost not stated. Engineer, Stephen E. Kleffer, Terra

Bella. Owners, Terra Bella Irrigation District. The State Engineer has approved the plans of the Terra Bella Irrigation District and work on the project will be started within the next few months. Notice of the approval of plans has been sent the directors of the district by Assistant State Engineer P. M. Norboe, of the Department of Engineering. Stephen E. Kieffer is engineer for the District. Several San Francisco contractors have held consultation with the directors on this work and it is probable that immediate action will be taken.

ANDERSON, SHASTA CO., CAL.—Irrigation work. Cost not stated. Engineer, Chief Engineer, Anderson Irrigation District, Anderson. Owners, Anderson-Cottonwood Irrigation District. The board of directors of the Anderson-Cottonwoon Irrigation District at their last meeting passed a resolution calling for bids on the construction of the irrigation system as well as on materials to be used in building it. The bids are to be opened in the office of the district in Anderson April 29th at 10 o'clock a. m. The district asks for bids on 13,000 barrels of cement, 3,600 feet of cast iron pipe ranging from 36 to 42 inches in diameter, 27,000 feet of metal flume, and other material necessary for the construction of the system. The specifications for material and construction can be inspected at the office of the company at Anderson. The district asks for bids on the construction of the main canal, which will be 36 miles long, concrete dams, gates, drops, siphons, drains, bridges, flumes and fence crossings. All of these are described and specified in the plans on file. The laterals will be about 36 miles in length, making the ditch cover an aggregate length of approximately 72 miles. Bonds of $450,000 have been sold for this work.

LIBRARIES

HOLLYWOOD, LOS ANGELES CO., CAL.—Library, 1 story and base, brick, $34,000. Architect, C. H. Russell, Story Bldg., L. A. Owners, City of Hollywood. Location, northeast Santa Monica and Madison, covering an area of 96 by 90 feet. Will contain two reading rooms, lecture hall and stack room. Interior finish pine and hardwood with maple floors. Central heating system. Metal book stacks. Exterior faced with pressed brick. Plans complete and figures being taken. Bids open on April 21st.

POWER IMPROVEMENTS

CLOVERDALE, SONOMA CO., CAL.—Water pipe and fittings. Cost not stated. Engineer, Town Engineer, Cloverdale. Owners, Town of Cloverdale. Bids will be received on April 15th for the following pipe and fittings: For furnishing f. o. b. Cloverdale 1,900 feet of new lap-welded National full weight wrought steel standard black pipe, with fittings to match. Hot asphaltum dipped. 600 feet 12-inch, 45 pounds or over per foot; 600 feet 10-inch, 35 pounds or over per foot; 700 feet 8-inch 25 pounds or over per foot. Also, one each of 10, 6 and 4 inch gate valves, tested to 125 pounds; 1 10x4 tee; 1, 8x6 cross; 1 8-inch tee; 1 12 to 10 inch reducer; 1 10 to 8 inch reducer; 2 8 to 6 inch bushings; 1 4-inch nipple, short; 3 6-inch plugs. Bids will also be received on the same date for two other lots of pipe and fittings called for under another schedule.

TURLOCK, STANISLAUS CO., CAL.—Pump, centrifugal type. Cost not stated. Engineer, City Engineer, Turlock. Owners, City of Turlock. Bids will be received until April 18th at 5 p. m. for furnshing a four-inch centrifugal pump for pumping water, together with a 2,200-volt motor, together with all necessary connections, equipment and appurtenances for and including installation of same, ready for practical operation.

MADERA, MADERA CO., CAL. — Power plant and equipment, $450,000. Engineer, Engineering Department of San Joaquin Light and Power Co., Madera. Owners, San Joaquin Light and Power Co., A. G. Wishon, Mgr., Madera. Machinery for a 3,000 kilowatt plant has been ordered, but the factory will not be able to fill the order until about October 1. By that time, Mr. Wishon says, the building, the outbuildings and three attendants' cottages, as well as all the tunnels and ditches for the water will be completed. Work is to begin at once.

PALO ALTO, SANTA CLARA CO., CAL.—Water main and sewer extension. Cost not stated. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The Palo Alto Board of Public Works has adopted plans and specifications for water and sewer main extensions on certain streets that are to be paved soon, and authorized the advertising for bids to be opened on April 17th. Plans for this work may be secured from the City Clerk.

SAN FRANCISCO — Substation, 2 story and base. Class A construction, $90,000. Engineer, Ham, 14 Sansome street, S. F. Owners, Great Western Power Co. A contract for the steel work has been awarded to the Pacific Rolling Mills and another contract for excavating and foundation work to G. P. W. Jensen, 320 Market street. Other parts of the work will be let shortly.

RAILROAD CONSTRUCTION AND EQUIPMENT

FRESNO, FRESNO CO., CAL.—Passenger station addition, 2, 2 story, hollow tile and concrete, $25,000. Architect, Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Two wings will be added to the present station and will be arranged for baggage and express. The main waiting room and office will be enlarged. Exterior will be faced with cement plaster. Plans are complete and figures are being taken.

RESIDENCES.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, J. W. Gillogley, 745 San Jose avenue, S. F. Location, east 34th avenue north of Irving. Will contain seven rooms, bath and sleeping porch. Interior finish pine and elm panels. Hardwood floors and white enamel. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Charles F. Fallmer, 1796 Eddy street, S. F. Location, Merritt Terrace. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $7,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Location, Forest Hill. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with cement plaster and brick veneer. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame. Cost not stated. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. Mary Quinn. Location, west 10th avenue north of Lawton. Will contain seven rooms, bath and sleeping porch. Basement garage. Interior finish pine and hardwood with white enamel in the bed rooms. Bath rooms tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, A. De Paoli. Location, southwest Colby and Woolsey streets, S. F. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $8,000. Architect. August G. Headman, New Call Bldg., S. F. Owner, Timothy Reardon. Location, Upper Terrace. Will contain ten rooms, bath and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, A. G. Sherman, Monadnock Bldg., S. F. Location, west Edgewood south of Farnsworth. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $6,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, John Little. Location, west 24th avenue south of Lake. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels

ile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to b done by Day Labor.

SAN FRANCISCO—Residence alterations, 2 story, frame. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owner, Victor Pofiesta. Location, Green and Larkin streets. Work will consist of new interior trim, hardwood floors, mantels and electric work. Some exterior alterations will also be made. Plans are being prepared.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, Louis Johnson, 223 Greenbank avenue, Piedmont. Location, south Greenbank avenue west of Grand. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors, open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. J. Pirang, 5487 Claremont avenue, Oakland. Location, west Glendora north of Greenwood. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, Thomas Buratovich, 2636 64th avenue, Oakland. Location, east 61th avenue south of Peak. Will contain seven rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

HILLSBOROUH, SAN MATEO CO., CAL.—Residence, 2 story and base, frame, $12,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Edward Cudahy. Will contain ten rooms, three baths, sleeping porch and separate garage. Interior finisb pine, hardwood and white enamel Hardwood and tile floors. Central heating system and hot water circulating system. Bath rooms equipped with showers and finished in tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

HILLSBOROUH, SAN MATEO CO., CAL.—Residence, 2 story and base, frame, $8,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Jerome Landsfield. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, Chester H. Miller. Location, Yosemite Terrace. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. D. McKay, 3029 E street, Sacramento. Location, 921 31st street. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

VALLEJO, SOLANO CO., CAL.—Residence, 1 story and base, frame. Cost not stated. Architect, none. Owner, E. L. Cook. Location, Ohio between Napa and El Dorado. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Frank T. Kegley and Scott Gerrity, Consolidated Realty Bldg., L. A. Owner's name withheld. Location, Bentwood Park. Will contain 22 rooms, 5 baths and separate garage. Interior finish hardwood and white enamel. Hardwood floors. Bath rooms tile. Hot water system of heating. Showers. Open fire places and tile and brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

LOS ANGELES, CAL.—Residence, 2 story and base, frame, $18,000. Architect, G. Ivan Peoples, Haas Bldg., L. A. Owner, J. H. Smailes. Location, Commonwealth avenue. Will contain ten rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water. Hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Alfred Johnson, 433 24th avenue, S. F. Location, west 16th avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $4,500 and $5,000. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Will contain seven and eight rooms with bath, and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue south of East 29th street. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor & Elred. Location, Rockridge Park. Will contain seven rooms each with two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

ALABANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, I. A. Kellog, 3404 Champion avenue, Oakland. Location, west Pomona south of Marin. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,500. Architect, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, S. G. Rankin. Location, Oxford street. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, ohn Hudson Thomas, First National Bank Bldg., Berkeley. Owner, T. L. Hamlin. Location, Benvenue avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

ALBANY, ALAMEDA CO., CAL.—Residences, 5, 1 story and base, frame, $2,000. Architect, none. Owner, E. & A. Co., Syndicate Bldg., Oakland. Location, south Marin west of Pomona. Each house will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire places and tile mantels. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, George W. Nunes, 5430 Dover street, Oakland. Location, west Leviston north of Alcatraz. Will contain six rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans com-

plete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, J. D. G. Alexander, 531 24th street, Oakland. Location, west 76th avenue south of East 14th street. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, E. R. Blabon, 2556 62nd avenue, Oakland. Location, east Loma Vista south of Kansas. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, C. W. Glantz, 1438 82nd avenue, Oakland. Location, west 22nd avenue south of East 16th. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,850. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. McAllister. Location, Manor Drive. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BURLINGAME, SAN MATEO CO., CAL.—Residence, 1 story and base, frame, $4,500. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Ashley Farless. Will contain six rooms, bath and separate garage. Interior finish hardwood and white enamel. Hardwood floors. Open fire place and furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster.

HILLSBOROUH, SAN MATEO CO., CAL.—Residence, 2 story and base, frame, $12,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Thomas Wiseman. Will contain ten rooms, three baths and sleeping porches. A separate garage is included in the plans. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and hot water circulating system. Bath rooms tile and equipped with showers. Open fire places and tile and brick mantels. Exterior covered with cement plaster. Plans complete and figures to be called for shortly.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, Mr. Adams. Will contain ten rooms, two baths, sleeping porch and garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, L. L. Woodward, 1530 Grove street, Oakland. Location, west 73rd avenue north of Halliday. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $20,000. Architects, Milwain Bros., Alhany Bldg., Oakland. Owner, William G. Volkmann. Location, Crocker Terrace. Will contain 15 rooms, four baths and two sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably warm air, open fire places and hot water circulating system. Bath rooms tile and equipped with shower. Exterior covered with cement plaster. Plans being prepared.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, F. N. Strang, 805 Pacific avenue, Alameda. Location, east Bayo Vista south of Monte Vista. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale west of 38th. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors, open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, G. H. Nobie, 2220 Central avenue, Alameda. Location, 2524 San Jose avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,000. Architect, none. Owner, I. S. Tuttle, 2222 East 31st street, Oakland. Location, north East 31st street south of 22nd. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner, Al L. Schmidt. Location, Excelsion Heights. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,500. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, L. S. Warford. Location, Rockridge. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

Contracts Awarded.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Joseph F. Rhodes, Central Bldg., L. A. Owner, Andrew McDearmott. Contractor, Joseph F. Rhodes, Central Bldg., L. A. Contract price not stated.

PORTLAND, ORE. — Residence, 2 story and base, brick and tile, $50,000. Architect, A. E. Doyle, Worcester Bldg., Portland. Owner, Col. Henry Cabell. Contractors, McHolland Bros., 669 East Everett street, Portland. Contract price, $50,000.

SCHOOLS

SAN FRANCISCO—School, 1½ story and base, frame and concrete. Cost not stated. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owner, Katherine D. Burke. Location, Jockson and Lyons streets. Designed for a private school for girls, and will contain class rooms and an assembly hall. Interior finish pine and hardwood with maple floors. Steam heat. Exterior covered with cement plaster. Plans being prepared.

DANVILLE, CONTRA COSTA CO., CAL.—School, 1 story and base, frame, $12,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Danville High School District. Will contain four clas rooms and an assembly hall. Department for chemistry. Interior finish pine with maple floors. No heating system. Exterior covered with cement plaster. Plans being prepared and bids to be called for as soon as bonds can be sold.

PETALUMA, SONOMA CO., CAL.—Convent buildings, 2, 2 story, frame, $25,000. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Sisters of St. Vincent. Will contain class rooms and chapel. Living quarters and domestic science departments in one building. Interiors finished in pine with maple floors. Steam heat and hot water supply. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN LEANDRO, ALAMEDA CO., CAL.—Schools, 2, 1 story and base, concrete, $40,000 each. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. All bids received Monday, April 3rd, for the construction of two school buildings in San Leandro have been rejected by the Board of School Trustees. Plans will be revised by Architect John J. Donovan, and new figures will be called.

SAN BRUNO, SAN MATEO CO., CAL.—School, 1 story, frame. Cost not

stated. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. All bids received for this building have been rejected and new figures will be called for as soon as plans can be revised. Further mention will be made of the work.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick. Cost not stated. Architect, Thomas B. Wiseman, associated with Charles H. Biggar, Morgan Bldg., Bakersfield. Owners, Bakersfield School District. Designed for a grammar school and will contain four class rooms. Interior finish pine. Maple floors. No heating system. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close April 30th. Plans on file at office of the architect.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick, $23,000. Architect, Thomas B. Wiseman, Producers' Bank Bldg., Bakersfield. Owner, Lowell School District. Will contain six class roms and an assembly hall. Designed for a grammar school. Interior finish pine with maple floors. Steam heat and oil burning system. Exterior faced with pressed brick. Plans complete and figures being taken. Bids open on April 20th. Plans on file at office of the architect.

MARICOPA, KERN CO., CAL. — School, 1 story and base, brick and concrete. Cost not stated. Architect, Thomas B. Wiseman, Producers' Bank Bldg., Bakersfield. Owners, Maricopa High School District. Will contain several class rooms, library and auditorium. Interior finish pine. Maple floors in the class rooms. Steam heat and oil burning equipment. Exterior covered with cement plaster and pressed brick. Plans complete and figures being taken. Bids close on April 19th.

FRESNO, FRESNO CO., CAL.—School, 1 story, frame, $4,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Kearney School District. Designed for a district school and will contain two class rooms. Interior finish pine. Exterior covered with cement plaster. Plans being prepared.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick, $15,000. Architect, O. L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Location, Union and Truxton avenues. Will contain four class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and oil burning furnace. Exterior faced with cement plaster and pressed brick. Plans nearly complete and figures to be called for shortly.

CALEXICO, IMPERIAL CO., CAL.—School, 1 story and base, frame. Cost not stated. Architect, Earl Frary, Calexico. Owners, City of Calexico. Will contain three class rooms. Interior finish pine. No heating. Exterior covered with cement plaster. Plans complete and figures being taken. Bids open on April 18th.

RED BLUFF, TEHAMA CO., CAL.—School, 2 story and base, concrete, steel and brick, $69,196. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Red Bluff School District. Contractor, James L. McLaughlin, 244 Kearny St., S. F. Subfigures are wanted on the following parts of the work: Lumber, common and face brick, sheet metal work, mill work, glass and glazing, ornamental iron, structural steel, marble work, tile, architectural terra cotta, Hauser or Simplex windows, finish hardware and composition floors.

SEWERS, STREET WORK & WATER SYSTEMS

ALAMEDA, ALAMEDA CO., CAL.—Street paving, etc. Cost not stated. Engineer, City Engineer, Alameda. Owners, City of Alameda. The first section of Central avenue to be improved will be from Sherman street to Fernside Boulevard. This was finally determined upon at the last meeting of the City Council and the City Clerk was directed to advertise for bids for the construction of the street, with a base of concrete and wearing surface of asphaltic concrete. The bids are to be received by the Council Tuesday evening, April 25th. Plans may be had from the City Clerk.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until April 20th for street improvements under the following resolution: Portions of 34th avenue be graded, curbed with redwood, guttered with concrete gutters three feet wide, and paved with oil macadam; three corrugated iron and concrete culverts, each having two branches; also a wooden culvert.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on April 20th for street improvements under the following resolution: That Galindo street, from 35th avenue to Harrington avenue, be graded, curbed with redwood, guttered with concrete gutters three feet wide, sidewalked with cement sidewalks five feet wide, and paved with oil macadam; a corrugated iron and concrete culvert, having two branches; concrete culvert, and two east iron storm water inlets.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction, $52,861.55. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. Eight sets of figures were opened at the April 3rd meeting of the San Mateo County Board of Supervisors for the construction of approximately 7½ miles of graveled highway from San Gregoria to Pescadero. L. G. Hare, Salinas, presented the low bid at $52,861.55, which was below the engineer's estimate, and was awarded the contract. Following is a complete list of the bids received: A. J. & J. L. Fairbanks, $63,754.11; Peterson & Grier, $62,290.85; Marin Rock Co., $59,207.75; J. P. Holland, $52,913.03; Tieslau Bros., $60,975.15; J. G. Hare, $52,861.55; Sonnickson & Bryant, $54,156.10; E. J. Hunt, $57,080.79.

SALINAS, MONTEREY CO., CAL.—Highway construction, $25,424.50. Engineer, County Surveyor, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors the following bids were received for the Monterey-Carmel road: V. M. Price, $25,424.50; W. J. Dontanville, $26,943.60; Geo. Snyder & Co., $25,505.60; A. J. & J. L. Fairbanks, $31,159.10. All bids were rejected except that of V. M. Price, 211 Clay street, S. F., which was taken under consideration. Action will be taken at the next meeting.

SAUSALITO, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer Hohl, Sausalito. Owners, Town of Sausalito. At the last meeting of the Town Trustees Town Engineer Hohl submitted plans and specifications for street work on full length of Johnson street, and for Pine and Turney streets between Caledonia and railroad track, to be of asphaltic concrete. Bids will probably be called for at the next meeting of the Board.

NAPA, NAPA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council City Engineer Gardner presented Resolution of Intention No. 463 for the improvement of Seymour street, from Oak to First. The resolution was adopted, together with plans and specifications for doing the work. Bids on this work will be called for shortly.

NAPA, NAPA CO., CAL.—Electrolier system. Cost not stated. Engineer, City Engineer, Napa. Owners, City of Napa. In compliance with the request of the Advisory Board the City Council has directed the City Engineer to prepare plans and specifications for an electrolier system in the business district, comprising the following boundaries: Main street, from Pearl to Third; Brown street, from Pearl to Third; Coombs street, from Clay to Third; Pearl street, from Main to Brown; Clay street, from Brown to Coombs; First street, from Main to Coombs; Second street, from Main to Coombs, and Third street, from Main to Coombs. Further mention will be made of this work when the plans are submitted to the Council.

PETALUMA, SONOMA CO., CAL.—Street and sewer work. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. The City Council at their last meeting took the following action relative to street and sewer improvements: The City Engineer was ordered to prepare plans and specifications for the improvement of Douglas street and the establishment of a sewer. The resolution of intention calling for the construction of a sewer on Sixth street, from B street to a point 75 feet from Western avenue, was passed. A resolution of intention for the construction of a six-inch sewer on Broadway, from the manhole on Basset street to the manhole on English street, was passed. A similar resolution for the grading of Ellis street, from Washington to the north city line was passed. A six-inch iron stone sewer on Liberty and Sixth streets, from B street to a point 75 feet from Western avenue, was decided upon by resolution of intention.

MARTINEZ, CONTRA COSTA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor Arnold, Martinez. Owners, Contra Costa County. The Board of County Supervisors has instructed County Surveyor Arnold to prepare plans and specifications for ten miles of concrete highway, extending from Byron westward. It is understood that work will be started as soon as possible.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Street improvement, $15,000. Engineer, County Surveyor, San Luis Obispo. Owners, Town of San Luis Obispo. San Luis Obispo will have a highway through the city to connect with the State highway at the east and west ends, the Supervisors having agreed to assist them in a financial way

by taking $15,000 from the general fund to build the highway required. The new highway is to be 18 feet wide and constructed in the same manner as the State highway.

ROSEVILLE, PLACER CO., CAL.—Highway construction, $5,375. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. The Ross Construction Co., Forum Bldg., Sacramento, submitted the lowest bid of $5,375 for the highway work in Placer County, one mile north of Roseville city limits. (III-Pla-3-AO), about 630 feet in length (including two abutments for an under crossing of the railroad), to be paved with Portland cement concrete. Engineer's estimate, $9,661.73.

OROVILLE, BUTTE CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Oroville. Owners, Butte County. Bids will be opened on April 27th for road work on the Biggs and Princeton road according to the plans and specifications now on file in the office of the County Clerk.

WILLITS, MENDOCINO CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Willits. Owners, Town of Willits. Bids will be opened on April 14th for improvement of that portion of Main street as shown on the plan for paving Main street and designated thereon as Section 1, be graded to the official grade and paved with a pavement consisting of hydraulic concrete base 5 inches thick and an asphaltic wearing surface ½ inch thick, and that hydraulic concrete curbs and gutters be constructed therein.

WILLITS, MENDOCINO CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Willits. Owners, Town of Willits. Bids will be opened on April 14th for improvement of that portion of Main street as shown on the plan for paving Main street, and designated thereon as Section 2, be graded to the official grade and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick.

REDDING, SHASTA CO., CAL.—Sidewalk and gutters. Cost not stated. Engineer, City Engineer, Redding. Owners, City of Redding. Bids will be opened on April 17th for the construction of a concrete sidewalk, curb and gutter on the south side of Yuba street between the westerly side of the railroad track of the Southerr Pacific Co. and the Redding Hotel.

SACRAMENTO, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following contracts have been awarded by the City Commission of Sacramento: To the McGillivray Construction Co., 1007 7th street, Sacramento, for the improvement of portions of N, O, P, and Q streets by constructing concrete curbs, gutters, 6 and 8 inch vitrified ironstone sewer pipe, elbows attached, etc.; also grading the roadway and constructing an asphaltic macadam pavement, consisting of a hydraulic concrete foundation 5 inches in thickness and an asphaltic macadam wearing surface 1½ inches thick. To Clark & Henery Construction Co., Oschner Bldg., Sacramento, improving Bonita avenue from the Western Pacific to Freeport road, by removing and disposing of all wooden curb, etc.; constructing concrete curb, concrete gutter, concrete sidewalk 5 feet wide and 3½ inches thick, grading the roadway and constructing a pavement consisting of a hydraulic concrete foundation 4 inches thick and an asphaltic concrete wearing surface 1½ inches thick. To W. J. Tobin, 735 Filbert street, Oakland, improvement of California avenue from the Lower Stockton road to 28th street tract; excavating a trench, 6, 8 and 10 inch vitrified ironstone pipe sewer, two cast iron gutter drains, 1 gutter drain, etc. Portion of Lower Stockton road he improved by excavating a trench and constructing therein an 8 inch vitrified ironstone pipe sewer. That the alley extending from Lincoln avenue to California avenue he improved by excavating a trench, an 8-inch vitrified ironstone pipe sewer, one cast iron gutter drain. That the alley running east and wast in the 28th street tract be improved by excavting a trench, and 8-inch vitrified ironstone pipe sewer, cast iron gutter drain, six concrete manholes, complete with cast iron curbs and covers; placing 68 6-inch vitrified ironstone Y branches.

REDWOOD CITY, SAN MATEO CO., CAL.—Sidewalk construction. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees resolutions of intention were passed ordering the construction of sidewalks and curbs on the county road between the Five Points and Whipple avenue. Bids were ordered received up to May 1st. Plans may be had from the City Clerk at Redwood City.

SAN RAFAEL, MARIN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors the Clerk was directed to advertise for bids for the building of about three miles of road along Tomales Bay and Keys Creek from Walker Creek to Tomales. Plans may be had from the County Clerk.

EUREKA, HUMBOLDT CO., CAL.—Sewer construction. Cost not stated Engineer, City Engineer, Eureka. Owners, City of Eureka. The City Council is making preparation for the sewering and installation of culverts in Myrtle avenue before the street is paved. It is probable that bids for the sewer work will be called for at the next meeting.

STOCKTON, SAN JOAQUIN CO., CAL.—Street and highway improvements. Cost not stated. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Bids have been ordered received by the Supervisors up to May 3rd at 10 a. m. for the improvement of the main street of the town of Ripon. Bids have also been ordered for the improvement of the Perrott road, to close at the same time. Plans may be had from the County Clerk.

Contracts Awarded

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction, $52,861.55. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. Contractor, Lou G. Hare, Salinas. Contract price, $52,861.55.

SALINAS, MONTEREY CO., CAL.—Highway construction, $19,915.50. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractors, George Snyder & Co., Salinas. Contract price, $19,915.50.

PETALUMA, SONOMA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Contractor, S. E. Adams, 319 3rd street, Petaluma. Contract price not stated.

PETALUMA, SONOMA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Contractors, Silva & Wood, Petaluma. Contract price not stated.

FAIRFIELD, SOLANO CO., CAL.—Highway construction, $30,000. Engineer, County Surveyor, Fairfield. Owners, Solano County. Contractor, P. H. Hare, Bacon Bldg., Oakland. Contract price, $30,000.

VISALIA, TULARE CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price not stated.

STORES AND OFFICES

SAN FRANCISCO—Store and office alteration, 4 story and base. Class C. Cost not stated. Architect, J. R. Miller, Lick Bldg., S. F. Owners, City Investment Co. Location, southeast corner Market and Fremont streets. Present elevators to be removed and new passenger and freight elevators to be installed, new hallways built through center of building, main stairway to be rebuilt, new plumbing on upper floors, all store fronts on Fremont street to be new; sidewalk elevator on Fremont street to be removed and reset, new boiler room and oil heating plant to be installed. Plans are complete and figures will be taken at once.

PALO ALTO, SANTA CLARA CO., CAL.—Store, 3 story and base, brick, $20,000. Architect, Arthur S. Heineman, 831 San Fernando street, L. A. Owner, Ernest Wilson Co., Palo Alto. Designed for a retail candy store and factory. Will cover an area of 30 by 100 feet. Interior finish pine and ornamental plaster. Cement floors. Steam heat and oil burning plant. Patent store fronts. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN MATEO, SAN MATEO CO., CAL.—Stores, 1 story and base, brick, $12,000. Architect, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name withheld. Location, site of Old Building Council, covering an area of 150 by 50 feet. Will contain six stores. Interior finish pine and redwood. Some hardwood floors in display windows. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

THEATRES

SAN FRANCISCO — Nickelodeon, 1 story and base, frame. Cost not stated. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owners, Rosa & Bodania. Location, 29th and Church streets, covering an area of 50 by 100 feet. Seating capacity, 400 people. Interior finish pine and ornamental plaster. Plans complete and figures being taken.

Contracts Awarded.

REDWOOD CITY, SAN MATEO CO., CAL.—Nickelodeon, 1 story and base, reinforced concrete, $16,000. Architect, Will H. Toepke, 46 Kearny street, S. F. Owner, Lydia Dugan. Contractor, L.

A. Rose, Monadnock Bldg., S. F. Contract price, $16,000. The contractor is taking subfigures on mill work and plumbing.

SEALED PROPOSALS

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Monday, May 8th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two New Stairs to Basement," Exposition Building, Agricultural Park, Los Angeles, California, in accordance with plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and al bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two New Stairs to Basement,' Exposition Building, Agricultural Park, Los Angeles, California."

(Signed) W. F. McCLURE,
State Engineer.

NOTICE TO CONTRACTORS.

THE OPENING OF BIDS FOR THE construction and erection of the Armory, Stockton, California, heretofore set for **Tuesday, May 2nd, 1916, at 12 o'clock, noon,** is hereby postponed until **Thursday, May 4th, 1916, at 12 o'clock, noon.**

This postponement is necessary, because of the fact that section 13 of chapter 2, enacted at the extra session of the Legislature, held in January, 1916, provides that the first May presidential primary election to be held under the provisions of the act shall be held on the second day of May, 1916, and said presidential primary election, being a general State election, the second day of May, 1916, is, therefore, a legal holiday.

(Signed) W. F. McCLURE,
State Engineer.

April 6th, 1916.

NOTICE TO CONTRACTORS.

OFFICE OF THE BOARD OF EDUCATION of Alameda, Alameda County, California.

Bids will be received by the Board of Education of the City of Alameda, State of California, until **5 o'clock p. m. Tuesday, April 25, 1916,** for the construction and completion of a two-story and basement School Building on that piece of property, two hundred fifty (250) feet west of Oak street, and bounded on the north by Alameda avenue, and on the south by Encinal avenue, in the City of Alameda, County of Alameda, State of California, for each of the following departments of work:

Department 1. Excavating, Grading, Concrete Work, Granite Work, Brick Work, etc.

Department 2. Carpenter Work, Mill Work, Galvanized Iron Work, Roofing, Glass Work, Hardware, Stairs, Patent Flues, etc.

Department 3. Iron Work, both Ornamental and Structural Stetl, Post Caps, Bases, Anchors, etc.

Department 4. Plumbing, Gas Fitting, Marble Work, Vacuum Piping, etc.

Department 5. Electrical Work.

Department 6. Lathing, Plastering, Ornamental Work, Cement Plaster, etc.

Department 7. Painting and Kalsomining.

Department 8. Heating and Ventilating.

Plans and specifications for each of the eight (8) separate Departments, or classes of work, are on file in the office of the Board of Education, in the Alameda City Hall or at the office of Werner & Rogers, architects, Phelan Building, San Francisco, and copies may be obtained upon the deposit of ten dollars ($10.00), which said deposit will be returned upon the return of said plans and specifications. No bidder on Departments 1, 4, 5, 6 and 8 shall keep said plans and specifications for a period exceeding three (3) days. No bidder on Departments 2 and 7 shall keep plans and specifications for a period exceeding two days. No bidder on Department 2 shall keep plans and specifications for a period exceeding seven days.

If any bidder retains said plans and the number of days above designated, specifications for a period exceeding then said deposit of ten dollars ($10.00) shall be forfeited to the City of Alameda.

Bidders may make their bids on any or all of said Departments or classes of work, or any combination of two or more Departments. No bid will be considered unless accompanied by a certified check, payable to the order of C. J. DuFour, secretary of the Board of Education, certified to by some responsible bank, for an amount not less than 10 per cent of the aggregate amount of the bid or proposal, which it accompanies, said check to be forfeited to the City of Alameda, as agreed and liquidated damages should the party or parties to whom the contract or contracts should be awarded fail to enter into the contract or contracts within ten days after the award, or fail to give a bond or bonds for the faithful performance of a contract or contracts.

Bidders shall make thier bids on the blank forms furnished with the plans and specifications. All blanks in the bid forms shall be completely filled in, giving all proposals asked.

All bids must be enclosed in sealed envelopes, addressed to the Board of Education of the City of Alameda, and be endorsed on the envelope, "Bid for the construction and completion of the New Porter School Building," followed by a designation as to the Department or Departments for which the bid is made.

All bids that do not comply with the above provisions in this notice, and all bids delivered later than **5 o'clock p. m.** sharp on date above specified, will be rejected.

The Board of Education reserves the right to reject any or all bids or proposals.

Dated Tuesday, March 28th, 1916.

JAMES M. SHANLY,
President of the Board of Education of the City of Alameda.

C. J. DUFOUR,
Secretary of the Board of Education of the City of Alameda.

PROPOSALS FOR STEEL TOWERS.

SEALED proposals will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **April 29, 1916,** for constructing two 400-foot steel towers at the Pacific coast torpedo station, Keyport, Wash. Plans and specifications may be obtained on application to the Commandant, Navy Yard, Bremerton, Wash., or to the Bureau of Yards and Docks, Washington.

PROPOSALS FOR ALASKA RAILROAD SUPPLIES.

ALASKAN CIRCULAR NO. 165.—Sealed proposals will be received at the office of the purchasing agent, Alaskan Engineering Commission, Seattle, Wash., not later than **11 a. m. April 14, 1916,** for bolts and nuts, **castings, iron and steel, wire rope, oil cans** and blacksmith coal. Copies of circular may be obtained upon application at this office or U. S. engineer office, 802 Couch Builing, Portland, Ore.; bureau of mines, 506 Custom House, San Francisco, Cal.; U. S. Reclamation Service, 505 Tramway Building, Denver, Colo.; bureau of mines, 40th and Butler streets, Pittsburgh, Pa.; Alaskan Engineering Commission, Washington, D. C., and U. S. Reclamation Service, room 802 Federal Building, Chicago, Ill. C. E. DOLE, purchasing agent.

PROPOSALS FOR OIL.

OIL AND CRUPPERS—Office of the Depot Quartermaster, U. S. Army, San Francisco, Cal.—Sealed proposals will be received here until **10 a. m. April 19, 1916,** under proposal 164 for furnishing 48 cruppers and 2,000 gallons boiled linseed oil. For further information address W. H. HART, lieutenant colonel, quartermaster corps, U. S. army, depot quartermaster.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1027 — Proposals for Steel Pipe, Copper Tubing, Machine Bolts, Brass Screws, Door Bolts, Hinges, Screen Door Catches, Drawer Locks, Fire Hose Nozzles, Grindstones, Ladders, Coal Baskets, Pulleys, Lamp Chimneys, Aluminum Cooking Utensils, Mop Heads, Tool Handles, Rubber Bands and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 18, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1027) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1029 — Proposals for Galvanized Sheet Steel or Iron, Planished Iron, Malleable Iron Castings, Steel and Iron Repair Parts for Cars, Spring Plates, Drawbar Springs, Brake Beams, Car Journal Bearings, Steel Cable, Scrub Brushes, Duster Brushes, Paint Brushes, File Brushes, Hose, Packing, Asbestos Gaskets, Tarpaulins, Canvas, Burlap, Cheesecloth, Linoleum, Emery Cloth, Toilet Paper, Magnesia Pipe Covering, Drain Tile, Window Glass, Granulated Cork, Calcium Carbide, Lump Chalk, Manganese Dioxide, Sulphate of Copper and Lye.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 20, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1029) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the Office of the Comptroller, University of California, Berkeley, California, **at or before 9 A. M., Wednesday, April 19, 1916, for the Heating and Ventilating and Electric Wiring for the completion of the University Library on the grounds of the University of California,** as per plans and specifications on file and obtainable from 9 A. M., Saturday, April 8, 1916 to 5 P. M. Wednesday, April 12, 1916, at the Cashier's Window in said office.

A deposit of $50.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon return of said plans and specifications accompanied by a regular bid for the work. No bids will be received unless accompanied by a certified check or bond in favor of the undersigned, equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednes-**

day, May 3, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Four Sanitary Hospital Cottages and Six Sanitary Cottages," Veteran's Home of California, Yountville, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's Bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, envelope: "Proposal for 'Four Sanitary Hospital Cottages and Six Sanitary California, and plainly marked on the Cottages,' Veteran's Home of California, Yountville, California."

(SIGNED). W. F. McCLURE, State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Tuesday, May 2, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(Signed) W. F. McCLURE, State Engineer.

NOTICE.

The opening of bids on the Stockton State Armory has been postponed to Thursday, May 4th, due to May 2nd being a Holiday.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of Lewis P. Hobart, Crocker Building, San Francisco, Cal., **at or before 11 A. M., April 17th, 1916, for the furnishing and installing of Kitchen Equipment for the University of California Hospital, Fourth and Parnassus Aves., San Francisco,** as per plans and specifications obtainable at the Cashier's window in the Comptroller's Office, University of California, Berkeley, Cal.

A deposit of $50.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon return of said plans and specifications accompanied by a regular bid for the work.

No bids will be received unless accompanied by a certified check or bond in favor of the undersigned equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F.McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, May, 1, 1915,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Boiler Plant Equipment," Power House, Norwalk State Hospital, near Norwalk, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Boiler Plant Equipment,' Power House, Norwalk State Hospital, near Norwalk, California."

(SIGNED) W. F. McCLURE, State Engineer. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1025 — Proposals for annual estimate for the period ending June 30, 1917, for Valve Oil, Air-Compressor Cylinder Oil, Marine-Engine Oil, Stationary-Engine Oil, Locomotive-Engine Oil or Grease, Cup Locomotive-Engine Oil, Car Oil, Non-Liquified Oil or Grease, Cup Grease, Black Gear Grease, Cotton Waste, and Wool Waste.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 21, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1025) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, major, corps engineers, U. S. A., general purchasing officer.

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing: Telephone Oakland 3735.

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FAST ELECTRIC TRAINS TO Sacramento
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Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. F.; People's Express Co., Oakland.

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.
Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
Write for descriptive folder.
Oakland Antioch & Eastern Railway
San Francisco Depot Key Route Ferry

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

DRY DOCK—Steel and reinforced concrete, $1,200,000. San Francisco. Engineer, Howard C. Holmes, 112 Market street, S. F. Owners, Union Iron Works. Location, Hunters' Point. Plans and specifications have been completed for the largest dry dock on the Pacific Coast and are now out for figures. Bids are to be opened on April 27th. The dock will be 1020 feet long, 152 feet wide on top, 110 feet on the bottom and will have a depth of 47½ feet. Aa large coffer dam will be constructed and the greater portion of the dock cut from solid rock, which will then be lined with reinforced concrete. The intake and discharge tunnels will be constructed of reinforced concrete. A large amount of steel will he used. Plans can be secured from the engineer.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, J. W. Gillogley, 745 San Jose avenue, S. F. Location, east 34th avenue north of Irving. Will contain seven rooms, bath and sleeping porch. Interior finish pine and elm panels. Hardwood floors and white enamel, open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Charles F. Fallmer, 1796 Eddy street, S. F. Location Merritt Terrace. Will contain seven rooms, bath and basement garage. Interior finish pine and white enamel with some elm panels. Hardwood floors, open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,000. San Francisco. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Location, Forest Hill. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with cement plaster and brick veneer. Plans being prepared.

RESIDENCE — 2 story and base, frame. Cost not stated. San Francisco. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. Mary Quinn. Location, west 10th avenue north of Lawton. Will contain seven rooms, bath and sleeping porch. Basement garage. Interior finish pine and hardwood with white enamel in the bed rooms. Bath room tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, A. De Paoli. Location, southwest Colby and Woolsey. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to he done by Day Labor.

RESIDENCE — 2 story and base, frame, $8,000. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, Timothy Reardon. Location, Upper Terrace. Will contain ten rooms, bath and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, A. G. Sherman, Monadnock Bldg., S. F. Location, west Edgewood south of Farnsworth. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $6,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, John Little. Location, west 24th avenue south of Lake. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE ALTERATIONS — 2 story, frame. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, Victor Podesta. Location, Green and Larkin streets. Work will consist of new interior trim, hardwood floors, mantels and electric work. Some exterior alterations will also be made. Plans are being prepared.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Alfred Johnson, 433 24th avenue, S. F. Location, west 16th avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $4,500 and $5,000. San Francisco. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Will contain seven and eight rooms with bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

HOTEL AND STORES—3 story and base. Class C construction, $20,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner, Vayssie Bros. Location, corner of Polk and Post streets. Will contain five stores and a total of 35 rooms and baths. Interior finish pine and elm panels. Some hardwood floors. Steam heat, automatic elevator, hot water supply and oil burning system. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—4 story and base. Class C construction, $42,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Fifty Vara District. Will contain a total of 28 suites of two and three rooms. Interior finish pine and gum with some white enamel. Hardwood floors. Steam heat, oil burning equipment and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot. Hot water supply. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $30,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, George H. Roundey, 995 Market street. Location, south Sacremento east of Laguna, covering an area of 59½ by 110 feet. Will contain 12 apartments of thre and four rooms. Interior finish pine and elm panels with some hardwood floors. Steam heat and hot water supply. Bath room tile wainscot and composition floors. Exterior covered with cement plaster. Plans complete and work to he done by Day Labor.

APARTMENT HOUSE—7 story and base. Class A construction. Cost not stated. San Francisco. Architect, Walter H. Parker, 12 Geary street, S. F. Owners, Hays Estate. Location, California near Taylor. Will contain a number of two, three and four room apartments. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, oil burning system and hot water supply. Vacuum cleaning and automatic elevator. Marble and tile wainscot. Bath rooms finished in tile. Exterior faced with pressed brick trimmed with terra cotta Plans being prepared.

FLATS—2 story and base, frame, $3,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, C. Ferrero. Location, north Telegraph Place east of Good Children street. Will contain two flats of five and six rooms. Interior finish pine and redwood. Open fire places and tile mantels. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Charles A. Linebaugh, 1860 Geary street, S. F. Location, north Anza west of 9th avenue, covering an area of 25 by 83 feet. Will contain two flats of six rooms each with basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Hardwood floors. Automatic water heaters. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $12,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S F. Location, northwest California and 5th avenue, covering an area of 32½ by 66 feet. Will contain six flats of four, five and six rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

SCHOOL—1½ story and base, frame and concrete. Cost not stated. San Francisco. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owner, Katherine D. Burke. Location, Jackson and Lyons streets. Designed for a private school for girls and will contain class rooms and an assembly hall. Interior finish pine and hardwood with maple floors. Steam heat. Exterior covered with cement plaster. Plans being prepared.

GARAGES—2, 2 story and base, reinforced concrete, $30,000. San Francisco. Engineer, L. S. Rosner, Merchants' Exchange Bldg., S. F. Owner, S. Meyers. Location, north Bush west of Van Ness, covering an area of 50 by 120 and 60 by 120 feet. Interior finish rough. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exteriors faced with cement plaster. Work to be done by MacDonald & Kahn, Rialto Bldg., on a percentage basis.

HOSPITAL KITCHEN EQUIPMENT—Cost not stated. San Francisco. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Regents of the University of California. Bids will be opened on April 17th in the offices of the architect for kitchen equipment for the new University Hospital. An official proposal appears in another column of this issue.

SUBSTATION — 2 story and base. Class A construction, $90,000. San Francisco. Engineer, Ham, 14 Sansome St., S. F. Owners, Great Western Power Co. A contract for the steel work has been awarded to the Pacific Rolling Mills, and another contract for excavating and foundation work to G. P. W. Jensen, 320 Market street. Other parts of the work will be let shortly.

NICKELODEON—1 story and base, frame. Cost not stated. San Francisco. Architects, Welsh & Carey, Merchants' National Bank Bldg., S. F. Owners, Rosa & Bodania. Location, 29th and Church streets, covering an area of 50 by 100 feet. Seating capacity 400 people. Interior finish pine and ornamental plaster. Special electric work and sheet metal work. Exterior covered with cement plaster. Plans complete and figures being taken.

STORE AND OFFICE ALTERATION—4 story and base. Class C. Cost not stated. San Francisco. Architect, J. R. Miller, Lick Bldg., S. F. Owners, City Investment Co. Location, southeast corner Market and Fremont Sts. Present elevators to be removed and new passenger and freight elevators to be installed, new hallways built through center of building, main stairway to be rebuilt, new plumbing on upper floors, all store fronts on Fremont street to be new; sidewalk elevator on Fremont street to be removed and reset, new boiler room and oil heating plant to be installed. Plans complete and figures will be taken at once.

Contracts Awarded

FACTORY—2, 3 story and 1, 1 story. Class A construction, $75,000. San Francisco. Architect, William Mooser, Nevada Bank Bldg., S. F. Owners, D. Ghirardelli Co. Excavating and concrete work awarded to H. L. Peterson, 62 Post street. Brick and terra cotta to H. H. Larsen & Bro., 62 Post street. Carpenter work, hardware, glass and plastering to Peterson & Persson, 62 Post street. Sheet metal work to Morrison & Co., 769 McAllister. Steel work to Central Iron Works, 631 Florida St.

APARTMENT HOUSE—6 story and base, reinforced concrete, $75,000. San Francisco. Architect, Sylvain Schnaittacher, 233 Post street, S. F. Owner, Dr. Hartland Law. Contractors, MacDonald & Kahn, Rialto Bldg., S. F. Contract price, $75,000.

OAKLAND AND ALAMEDA COUNTY

STREET PAVING, ETC.—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. The first section of Central avenue to be improved will be from Sherman street to Fernside Boulevard. This was finally determined upon at the last meeting of the City Council, and the City Clerk was directed to advertise for bids for the construction of the street, with a base of concrete and wearing surface of asphaltic concrete. The bids are to be received by the Council Tuesday evening, April 25th. Plans may be had from the City Clerk.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until April 20th for street improvements under the following resolution: Portions of 34th avenue to be graded, curbed with redwood, guttered with concrete gutters three feet wide, and paved with oil macadam; three corrugated iron and concrete culverts, each having two branches, also a wooden culvert.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on April 20th for street improvements under the following resolution: That Galindo street, from 35th avenue to Harrington avenue, be graded, curbed with redwood, guttered with concrete gutters three feet wide, sidewalked with cement sidewalks five feet wide, and paved with oil macadam; a corrugated iron and concrete culvert, having two branches; concrete culvert, and two cast iron storm water inlets.

STREET IMPROVEMENT—Cost as follows. Berkeley, Alamea Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Oakland Paving Co., 5000 Broadway, Oakland. The company's bid for the work was grading, per cubic yard of cut, 40c; macadamizing, per square foot, 9½c; concrete gutters, per square foot, 15c; concrete curbing, per linear foot, 50c.

STREET IMPROVEMENTS — Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Commission at their last meeting took the following action on street improvements: Granting Hutchinson Co., 13th and Franklin streets, Oakland, permission to improve East 15th street from 25th avenue to the easterly termination of said East 15th street. Granting permission to J. Catucci, 1230 18th avenue, Oakland, to construct concrete curbing on the southern line of Foothill Boulevard between points distant thereon 227 feet and 236 feet easterly from the eastern line of 27th avenue. Awarding contract to Hutchinson Co., 13th and Franklin streets, Oakland, for the improvement of Scenic avenue between Lincoln and Laguna avenues.

BERKELEY, ALAMEDA CO., CAL.—Street improvement. Cost as follows. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Oakland Paving Co., 5000 Broadway, Oakland. The company's bid for the work was grading, per cubic yard of cut, 40c; macadamizing, per square foot, 9½c; concrete gutters, per square foot, 15c; concrete curbing, per linear foot, 50c.

OAKLAND, CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Commission at their last meeting took the following action on street improvements: Granting Hutchinson Co., 13th and Franklin streets, Oakland, permission to improve East 15th street, from 25th avenue to the easterly termination of said East 15th street. Granting permission to J. Catucci, 1230 18th avenue, Oakland, to construct concrete curbing on the southern line of Foothill Boulevard, between points distant thereon 227 feet and 236 feet easterly from the eastern line of 27th avenue. Awarding contract to Hutchinson Co., 13th and Franklin streets, Oakland, for the improvement of Scenic avenue between Lincoln and Laguna avenues.

RESIDENCE — 2 story and base, frame, $2,500. Piedmont, Alameda Co., Cal. Architect, none. Owner, Louis Johnson, 223 Greenbank avenue, Piedmont Location, south Greenbank avenue west of Grand. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect,

none. Owner, C. J. Pfrang, 5487 Claremont avenue, Oakland. Location, west Glendora north of Greenwood. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Thomas Buratovich, 2636 61th avenue, Oakland. Location, east 64th avenue south of Peak. Will contain seven rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, L. L. Woodward, 1530 Grove street, Oakland. Location, west 73rd avenue north of Halliday. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $20,000. Piedmont, Alameda Co., Cal. Architect, Milwain Bros., Albany Bldg., Oakland. Owner, William G. Volkmann. Location, Crocker Terrace. Will contain 15 rooms, four baths and two sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably warm air, open fire places and hot water circulating system. Bath rooms tile and equipped with showers. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $3,000. Alameda, Alameda Co., Cal. Architect, none. Owner, F. N. Strang, 865 Pacific avenue, Alameda. Location, east Bayo Vista south of Monte Vista. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale west of 38th. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 2524 San Jose avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, I. S. Tuttle, 2222 31st street, Oakland. Location, north East 31st street south of 22nd. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, Claude B. Barton, First Savings Bank Bldg., Oakland. Owner, Al L. Schmidt. Location, Excelsior Heights. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,500. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, L. S. Warford. Location, Rockridge. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue south of East 29th street. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor and Elred. Location, Rockridge Park. Will contain seven rooms each with two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Albany, Alameda Co., Cal. Architect, none. Owner, I. A. Kellog, 3404 Champion avenue, Oakland. Location, west Pomona south of Marin. Will contain five rooms and bath. Interior finish pine and redwood, some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work by Day Labor.

RESIDENCE—1½ story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, Universal Drafting Bureau, 1814 5th avenue, Oakland. Owner, S. G. Rankin. Location, Oxford street. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, ohn Hudson Thomas, First National Bank Bldg., Berkeley. Owner, T. L. Hamlin. Location, Benvenue avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCES—3, 1 story and base, frame, $2,000. Albany, Alameda Co., Cal. Architect, none. Owner, E. & A. Co., Syndicate Bldg., Oakland. Location, south Marin west of Pomona, Each house will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire places and tile mantels. Exteriors covered with cemtn plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, George W. Nunes, 5430 Dover street, Oakland. Location, west Leviston north of Alcatraz. Will contain six rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Oakland, Cal. Architect, none. Owner, J. D. G. Alexander, 531 24th street, Oakland. Location, west 76th avenue south of East 14th street. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, E. R. Blabon, 2556 62nd avenue, Oakland. Location, east Loma Vista south of Kansas. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, C. W. Glantz, 1438 82nd avenue, Oakland. Location, west 22nd avenue south of East 16th street. Will contain five rooms and bath. Interior finish pine andredwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,850. Piedmont, Alameda Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. McAllister. Location, Manor Drive. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement

plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, brick and steel, $40,000. Oakland, Cal. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, George Smith. Location, southwest 22nd and Telegraph. Will contain two and three room apartments. Interior finish pine and elm panels with some white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water system. Bath rooms composition floors and tile wainscot. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, frame, $6,000. Oakland, Cal. Architects, . C. & M. L. Newsom, 1748 Broadway, Oakland. Owner, Louis H. Short. Location, west Brush south of 11th street. Will contain 16 rooms arranged in two and three room apartments. Interior finish pine and white enamel. Hardwood floors. Steam heat and hot water supply. Bath rooms composition floors. Exterior covered with cement plaster. Plans complete and in the hands of the owner who will let all contracts.

APARTMENT HOUSE ALTERATION—2 story and base, frame, $2,000. Oakland, Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, W. H. Edwards. The present frame dwelling will be altered into modern two and three room apartments. Work will include interior plastering, partition work, interior finish of pine and elm. Hardwood floors and wall beds. Plans are being prepared.

FLAT ALTERATIONS—2 story and base, frame, $4,200. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location, West street near 32nd. Work will consist of altering a two-story frame dwelling into modern flats of five and six rooms. Included in the work will be interior partitions, plastering, plumbing, painting and electric work. Hardwood floors and open fire places are included. Exterior will be faced with cement plaster. Plans are being prepared.

RESIDENCE — 2 story and base, frame, $5,000. Piedmont, Alameda Co., Cal. Architect, Norman F. Coulter, 46 Kearny street, S. F. Owner, Mr. Adams. Will contain ten rooms, two baths, sleeping porch and garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SCHOOLS—2, 1 story and base, concrete, $40,000 each. San Leandro, Alameda Co., Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. All bids received Monday, April 3rd, for the construction of two school buildings in San Leandro have been rejected by the Board of School Trustees. Plans will be revised by Architect John J. Donovan, and new figures will be called.

FACTORY—1 story, reinforced concrete, $25,000. Oakland, Cal. Engineer, Maurice C. Conchot, 110 Sutter street, S. F. Owners, Pacific Tread Tire Co. Location, Foothill Boulevard. This is the first unit of a large plant. Construction will be fireproof throughout. Interior finish pine. Metal window sash and frames and metal covered doors. Special machinery not included in estimated cost. Exterior faced with cement plaster. Plans complete and figures being taken.

CREAMERY—2 story and base, reinforced concrete, $20,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Shuey Creamery Co. Location, Telegraph avenue near Stuart street. Will contain a retail store in the front of the building and factory in rear and upper floor. Interior finish pine with a considerable amount of tile. Cement floor. Special machinery. Exterior faced with cement plaster. Plans complete and figures being taken.

FACTORY—3 story and base, reinforced concrete. Cost not stated. Oakland, Cal. Architect, A. W. Smith, 1010 Broadway, Oakland. Owner, E. R. Tutt, leased to Western Casket Co. Location, 10th and Harrison streets, covering an area of 100 by 160 feet. Bids have been opened and show J. F. Dingwell, 2021 West street, Oakland, low. A contract will be awarded shortly.

GARAGE—1 story, mezzanine and base, brick and steel, $20,000. Oakland, Cal. Architects, Richardson & Burrell, 202 East 12th street, Oakland. Owner, Edward Sommarstrom, 202 East 12th street, Oakland. Location, Broadway near 28th, covering an area of 100 by 127 feet. Designed for a commercial garage. Interior finish pine. Cement floor. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with pressed brick. Plans being prepared.

Receive Figures For San Leandro Schools.

Many Bids Presented For Two New School Buildings to be Erected in San Leandro.

A large number of bids were opened for the construction of two new school buildings to be erected in San Leandro, Alameda County, from plans by Architect John J. Donovan, Dalziel Bldg., Oakland. Contracts will be awarded Tuesday or Wednesday. Each building will be of the one-story type and of brick and concrete construction.

Alfred Olson presented the low figures for the Broadmoore School at $51,700 and Carnahan & Mulford the low figure for the Estabrook School at $49,989. Eight alternates were considered which were as follows: (1) slate blackboard instead of hylo-plate; (2) exterior cement painted three coats instead of 2 coats; (3) roughing in ten future toilets; (4) omit light fixtures in class rooms; (5) if brick inspector is paid by owner; (6) oil surface instead of cement finish on covered porches; (7) Gladding & McBean interlocking tile instead of Dennison; (8) substituting wood studding for Dennison tile.

Following is a complete list of the bids received:

Estabrook School.

W. G. Thornalley, $53,849; (1) $340; (2) $150; (3) $280; (4) $126; (5) $450; (6) $350; (7) $435; (8) $3700; (9) $26; (10) $126; (11) $300.

Peter N. Schmidt, $54,300; (1) $350; (2) $145; (3) $280; (4) $126; (5) $425; (6) $350; (7) $470; (8) $3700; (9) $26; (10) $125; (11) $300.

R. W. Littlefield, $55,555; (1) $278; (2) $113; (3) $290; (4) $126; (5) $450; (6) $357; (7) $235; (8) $3490; (9) $26; (10) $215; (11) $174.

Walter Sorensen, $53,681; (1) $345; (2) $133; (3) $290; (4) $126; (5) $450; (6) $298; (7) $235; (8) $2458; (9) $26; (10) $181; (11) $124.

W. A. Newsom, $54,087. No alternates.

Larsen & Sampson, $51,250. No alternates.

McLeran & Peterson, $51,116; (1) $392; (2) $60; (3) $200; (4) $290; (5) $135; (6) $150; (7) ded. $435; (8) $5500; (9) $26; (10) $215; (11) $170.

Van Sant-Houghton, $56,149; (1) $400 (2) $125; (3) $75; (4) $50; (5) $300; (6) $425; (7) $——; (8) $50; (9) $225; (10) $10; (11) $25.

P. P. Quinn, $56,497; (1) $320; (2) $100 (3) $50; (4) $50; (5) $200; (6) $100; (7) $——; (8) 3409; (9) $10; (10) $275; (11) $150.

Masow & Morrison, $54,992; (1) $250; (2) $125; (3) $105; (4) $150; (5) $175; (6) $500; (7) $——; (8) $3700; (9) $50; (10) $300; (11) $200.

Carnahan & Mulford, $49,989; (1) $345; (2) $90; (3) $250; (4) $250; (5) $150; (6) $190 (7) add, $200; (8) $2500; (9) $30; (10) $175; (11) $315.

Broadmoor School.

Larsen & Sampson, $52,000. No alternates.

Alfred Olson, $51,700; (1) $320; (2) $133; (3) $290; (4) $50; (5) $450; (6) $310; (7) ded. $235; (8) $3470; (9) $28; (10) $181; (11) $215.

McLeran & Peterson, $51,833; (1) $345 (2) $60; (3) $220; (4) $290; (5) $135; (6) $150; (7) ded. $435; (8) $5500; (9) $26; (10) $215; (11) $170.

Van Sant-Houghton, $57,101; (1) $400 (2) $125; (3) $75; (4) $50; (5) $300; (6) $425; (7) $——; (8) $50; (9) $225; (10) $10; (11) $25.

W. G. Thornalley, $56,125; (1) $352; (2) $133; (3) $290; (4) $116; (5) $422; (6) $290; (7) $236; (8) $4200; (9) $26; (10) $215; (11) $310.

P. N. Schmidt, $55,274; (1) $352; (2) $133; (3) $280; (4) $126; (5) $425; (6) $395; (7) $235; (8) $4420; (9) $26; (10) $215; (11) $300.

R. W. Littlefield, $56,176; (1) $280; (2) $113; (3) $290; (4) $126; (5) $450; (6) $307; (7) $235; (8) $3490; (9) $26; (10) $215; (11) $174.

P. P. Quinn, $56,880; (1) $320; (2) $100 (3) $50; (4) $50; (5) $200; (6) $100; (7) $——; (8) $3490; (9) $10; (10) $275; (11) $150.

W. E. Whalin, $56,360; (1) $356; (2) $134; (3) $280; (4) $126; (5) $425; (6) $397; (7) $235; (8) $4440; (9) $26; (10) $215; (11) $300.

Masow & Morrison, $56,875; (1) $250; (2) $125; (3) $110; (4) $150; (5) $175; (6) $500; (7) $——; (8) $4100; (9) $50; (10) $30; (11) $200.

SAN JOSÉ AND THE SANTA CLARA VALLEY

STORE—3 story and base, brick, $20,000. Palo Alto, Santa Clara Co., Cal. Architect, Arthur S. Heineman, 831 San Fernando street, L. A. Owner, Ernest Wilson Co., Palo Alto. Designed for a retail candy store and factory. Will cover an area of 30 by 100 feet. Interior finish pine and ornamental plaster. Cement floors. Steam heat and oil burning plant. Patent store fronts.

xterior faced with pressed brick. ans complete and work to be done by y Labor.

HIGHWAY CONSTRUCTION — $52,-1.55. Redwood City, San Mateo Co., l. Engineer, County Surveyor Neu-n, Redwood City. Owners, San Ma-o County. Eight sets of figures were ened at the April 3rd meeting of the n Mateo County Board of Supervisors r the construction of approximately ½ miles of graveled highway from n Gregoria to Pescadero. L. G. Hare, linas, presented the low bid at $52,-1.55, which was below the engineer's timate, and was awarded the con-act. Following is a complete list the bids received: A. J. & J. L. airbanks, $63,754.11; Peterson & Grier, 2,290.85; Marin Rock Co., $59,207.75; P. Holland, $52,913.03; Tieslau Bros., 0,975.15; L. G. Hare, $52,861.55; Son-ickson & Bryant, $54,156.10; E. J. unt, $57,080.79.

HIGHWAY CONSTRUCTION — $25,-24.50. Salinas, Monterey Co., Cal. En-ineer, County Surveyor, Salinas. Own-rs, Monterey County. At the last eeting of the County Supervisors the llowing bids were received for the onterey-Carmel road: V. M. Price, 25,424.50; W. A. Dontanville, $26,943.-0; Geo. Snyder & Co., $25,505.60; A. J. J. L. Fairbanks, $31,159.10. All bids ere rejected except that of V. M. rice, 211 Clay street, S. F., which was aken under consideration. Action will e taken at the next meeting.

BRIDGE—Reinforced concrete. Cost ot stated. Saratoga, Santa Clara Co., al. Engineer, Town Engineer, Sara-oga. Owners, Town of Saratoga. The own Trustees have found it necessary o build two or three new bridges be-ween Saratoga and Congress Springs, nd in a short time the present road vill be closed for the necessary re-pairs. Further mention will be made f this work.

WATER MAIN AND SEWER EX-TENSION—Cost not stated. Palo Alto, Santa Clara Co., Cal. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The Palo Alto Board of Public Works has adopted plans and specifications for water and sewer main extensions on certain streets that are o be paved soon and authorized the advertising for bids to be opened on April 17th. Plans for this work may be secured from the City Clerk.

RESIDENCE — 1 story and base, frame, $4,500. Burlingame, San Mateo Co., Cal. Architects, Edwards & Nor-berg, Bank Bldg., Burlingame. Owner, Ashley Farless. Will contain six rooms, bath and separate garage. In-terior finish hardwood and white en-amel. Hardwood floors. Open fire place and furnace heat. Bath room tile. Automatic water heater. Exte-rior covered with cement plaster.

RESIDENCE — 2 story and base, frame, $12,000. Hillsborough, San Ma-teo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Thomas Wiseman. Will con-tain ten rooms, three baths and sleep-ing porches. A separate garage is included in the plans. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and hot water circulat-ing system. Bath rooms tile and equipped with showers. Open fire places and tile and brick mantels. Ex-terior covered with cement plaster. Plans complete and figures to be called for shortly.

RESIDENCE — 2 story and base, frame, $12,000. Hillsborough, San Ma-teo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Edward Cudahy. Will contain ten rooms, three baths, sleeping porch and separate garage. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Central heat-ing system and hot water circulating system. Bath rooms equipped with showers and finished in tile. Open fire places and tile or brick mantels. Ex-terior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $8,000. Hillsborough, San Ma-teo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Jerome Landsfield. Will con-tain eight rooms, two baths and sleep-ing porch. Separate garage. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SIDEWALK CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Red-wood ity. Owners, Redwood City. At the last meeting of the City Trustees resolutions of intention were passed ordering the construction of sidewalks and curbs on the county road between the Five Points and Whipple avenue. Bids were ordered received up to May 1st. Plans may be had from the City Clerk at Redwood City.

SCHOOL—1 story, frame. Cost not stated. San Bruno, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. All bids received for this building have been rejected and new figures will be called for as soon as plans can be revised. Further men-tion will be made of the work.

STORES—1 story and base, brick, $12,000. San Mateo, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name with-held. Location, site of Old Building Council, covering an area of 150 by 50 feet. Will contain six stores. Interior finish pine and redwood. Some hard-wood floors in display windows. Pat-ent store fronts and marble bases. Ex-terior faced with pressed brick. Plans being prepared.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $52,-861.55. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor Neu-man, Redwood City. Owners, San Ma-teo County. Contractor, Lou G. Hare, Salinas. Contract price, $52,861.55.

NICKELODEON—1 story and base, reinforced concrete, $16,000. Redwood City, San Mateo Co., Cal. Architect, Will H. Toepke, 46 Kearny street, S. F. Owner, Lydia Dugan. Contractor, L. A. Rose, Monadnock Bldg., S. F. Con-tract price, $16,000. The contractor is taking subfigures on mill work and plumbing.

San Mateo Highway Bids.

(By Special Wire.)

REDWOOD CITY, San Mateo Co., Cal. —Eight sets of figures were opened at the April 3rd meeting of the San Mateo County Board of Supervisors for the construction of approximately 7½ miles of graveled highway from San Gregoria to Pescadero. L. G. Hare, Salinas, presented the low bid at $52,-861.50, which was below the Engineer's estimate. Bids were taken under ad-visement. Following is a complete list of the bids received:

San Gregoria-Pescadero Road.

A. J. & J. L. Fairbanks	$63,754.11
Peterson & Grier	62,290.85
Marin Rock Co.	59,207.75
J. P. Holland	52,913.03
Tieslau Bros.	60,975.15
L. G. Hare	52,861.55
Sonnickson & Bryant	54,156.10
E. J. Hunt	57,080.79

MARIN, CONTRA COSTA AND SONOMA COUNTIES

RESIDENCE — 1 story and base, frame. Cost not stated. Vallejo, So-lano Co., Cal. Architect, none. Own-er, E. L. Cook. Location, Ohio be-tween Napa and El Dorado. Will con-tain five rooms, bath and sleeping porch. Interior finish pine and red-wood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior cov-ered with cement plaster. Plans com-plete and work to be done by Day Labor.

STREET IMPROVEMENT—Cost not stated. Sausalito, Marin Co., Cal. En-gineer, Town Engineer Hohl, Sausa-lito. Owners, Town of Sausalito. At the last meeting of the Town Trustees, Town Engineer Hohl submitted plans and specifications for street work on full length of Jackson street and for Pine and Turney streets, between Cal-edonia and railroad track, to be of as-phaltic concrete. Bids will probably be called for at the next meeting of the Board.

STREET IMPROVEMENT—Cost not stated. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council City Engineer Gardner pre-sented Resolution of Intention No. 463 for the improvement of Seymour street, from Oak to First. The resolution was adopted, together with plans and speci-fications for doing the work. Bids on this work will be called for shortly.

ELECTROLIER SYSTEM—Cost not stated. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. In compliance with the request of the Advisory Board the City Council has directed the City Engineer to pre-pare plans and specifications for an electrolier system in the business dis-trict, comprising the following boun-daries: Main street, from Pearl to Third. Brown street, from Pearl to Third; Pearl street, from Main to Brown; Clay street, from Brown to Coombs; First street, from Main to Coombs; Second street, from Main to Coombs; and Third street, from Main to Coombs. Further mention will be made of this work when the plans are submitted to the Council.

STREET AND SEWER WORK—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. The City Council at their last meeting took the following action relative to street and sewer improvements: The City Engi-neer was ordered to prepare plans and specifications for the improvement of

Douglas street and the establishing of a sewer. The resolution of intention calling for the construction of a sewer on Sixth street, from B street to a point 75 feet from Western avenue, was passed. A resolution of intention for the construction of a six-inch sewer on Broadway, from the manhole on Basset street to the manhole on English street, was passed. A similar resolution for the grading and curbing of Ellis street, from Washington to the north city line, was passed. A six-inch iron stone sewer on Liberty and Sixth streets, from B street to a point 75 feet from Western avenue, was decided upon by resolution of intention.

HIGHWAY CONSTRUCTION — Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, ounty Surveyor Arnold, Martinez. Owners, Contra Costa County. The Board of Supervisors has instructed County Surveyor Arnold to prepare plans and specifications for ten miles of concrete highway, extending from Byron westward. It is understood that work will be started as soon as possible.

WATER PIPE AND FITTINGS—Cost not stated. Cloverdale, Sonoma Co., Cal. Engineer, Town Engineer, Cloverdale. Owners, Town of Cloverdale. Bids will be received on April 15th for the following pipe and fittings: For furnishing f. o. b. Cloverdale 1,900 feet of new lap-welded national full weight wrought steel standard black pipe, with fittings to match. Hot asphaltum dipped; 600 feet 12-inch, 45 pounds or over per foot; 600 feet 10-inch, 35 pounds or over per foot; 700 feet 8-inch, 25 pounds or over per foot. Also, 1 10-inch gate valve, tested to 125 pounds; 1 6-inch gate valve, tested to 125 pounds; 1 4-inch gate valve, tested to 125 pounds; 1 10x4 tee; 1 8x6 cross; 1 8-inch tee; 1 12 to 10 inch reducer; 1 10 to 8 inch reducer; 2 8 to 6 inch bushings; 1 4-inch nipple, short; 3 6-inch plugs. Bids will also be received on the same date for two other lots of pipe and fittings called for under another schedule.

HIGHWAY CONSTRUCTION — Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors the Clerk was directed to advertise for bids for the building of about three miles of road along Tomales Bay and Keys Creek, from Walker Creek to Tomales. Plans may be had from the County Clerk.

SCHOOL—1 story and base, frame, $12,000. Danville, Contra Costa Co., Cal. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Danville High School District. Will contain four class rooms and an assembly hall. Department for chemistry. Interior finish pine with maple floors. No heating system. Exterior covered with cement plaster. Plans being prepared and bids to be called for as soon as bonds can be sold.

CONVENT BUILDINGS—2, 2 story, frame, $25,000. Petaluma, Sonoma Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owners, Sisters of St. Vincent. Will contain class rooms and chapel. Living quarters and domestic science departments in one building. Interiors finished in pine with maple floors. Steam heat and hot water supply. Exterior covered with cement plaster. Plans complete and figures being taken.

HOSPITAL COTTAGES—Frame. Cost not stated. Yountville, Napa Co., Cal. Architect, State Architect, Gearge B. McDougall, Sacramento. Owners, State of California. Bids will be opened on May 3rd at 12 noon for constructing six frame sanitary cottages at the Veterans' Home. An official proposal appears in another column of this issue.

HOTEL ADDITION — 2 story and base, frame. Cost not stated. Martinez, Contra Costa Co., Cal. Architect, A. J. Mazurette, Martinez. Owner, W. H. Banta. Addition will contain one store on the ground floor and 20 rooms and several baths on the upper floor. Interior finish pine. Hot water system. Composition floors in bath rooms. Exterior covered with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

STREET IMPROVEMENT—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Contractor, S. E. Adams, 319 3rd street, Petaluma. Contract price not stated.

STREET PAVING—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Contractors, Silva & Wood, Petaluma. Contract price not stated.

HIGHWAY CONSTRUCTION — $30,000. Fairfield, Solano Co., Cal. Engineer, County Surveyor, Fairfield. Owners, Solano County. Contractor, P. H. Hare, Bacon Bldg., Oakland. Contract price, $33,000.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HOSPITAL—2 and 3 story and base, brick and steel, $75,000. Fresno, Fresno Co., Cal. Architect, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner, Burnett Hospital. Will contain 60 private rooms, operating rooms, nurses' quarters and a number of special wards. Interior finish white enamel and tile. Hardwood floor. Steam heat and hot water supply. Oil burning equipment. Tile wainscot. Vacuum cleaning. Exterior faced with pressed brick and cement plaster. Plans being prepared.

CITY HALL ALTERATION—$3,760. Fresno, Fresno Co., Cal. Architect, none. Owners, City of Fresno. At the last meeting of the City Council bids were opened for remodeling the city hall basement. The bid of Gede & Gede was $4,190. Bids were taken under advisement.

LODGE HALL—3 story and base, brick and concrete, $50,000. Visalia, Tulare Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Elks Lodge Association. Location, Main street. Only preliminary sketches have been prepared, and detailed information cannot be given at this time. Further mention will be made of the work when working drawings are prepared.

LODGE HALL—2 story and base, frame, $14,000. Visalia, Tulare Co., Cal. Architect Eugene Mathewson, Forsythe Bldg., Fresno. Owners, Visalia Moose Hall Association. Will contain social rooms, banquet hall and office. Interior finish pine and hardwood with maple floor in banquet hall. Exterior faced with cement plaster. Plans being prepared.

IRRIGATION WORK—Cost not stated. Terra Bella, Tulare Co., Cal. Engineer, Stephen E. Kieffer, Terra Bella. Owners, Terra Bella Irrigation District. The State Engineer has approved the plans of the Terra Bella Irrigation District and work on the project will be started within the next few months. Notice of the approval of plans has been sent the directors of the district by Assistant State Engineer P. M. Norboe of the Department of Engineering. Stephen E. Kieffer is engineer for the district. Several San Francisco contractors have held consultation with the directors on this work, and it is probable that immediate action will be taken.

PUMP—Centrifugal type. Cost not stated. Turlock, Stanislaus Co., Cal. Engineer, City Engineer, Turlock. Owners, City of Turlock. Bids will be received until April 18th at 5 p. m. for furnishing a four-inch centrifugal pump for pumping water, together with a 2,200 volt motor, together with all necessary connections, equipment and appurtenances for and including the complete installation of same ready for practical operation.

SCHOOL—1 story and base, brick. Cost not stated. Bakersfield, Kern Co., Cal. Architects, Thomas B. Wiseman, associated with Charles H. Biggar, Morgan Bldg., Bakersfield. Owners, Bakersfield School District. Designed for a grammar school, and will contain four class rooms. Interior finish pine. Maple floors. No heating system. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close April 30th. Plans on file at the office of the architect.

SCHOOL—1 story and base, brick, $23,000. Bakersfield, Kern Co., Cal. Architect, Thomas B. Wiseman, Producers' Bank Bldg., Bakersfield. Owner, Lowell School District. Will contain six class rooms and an assembly hall. Designed for a grammar school. Interior finish pine with maple floors. Steam heat and oil burning system. Exterior faced with pressed brick. Plans complete and figures being taken. Bids open on April 20th. Plans on file at office of architect.

SCHOOL—1 story and base, brick and concrete. Cost not stated. Maricopa, Kern Co., Cal. Architect, Thomas B. Wiseman, Producers' Bank Bldg., Bakersfield. Owners, Maricopa High School District. Will contain several class rooms. Steam heat and oil burning equipment. Exterior covered with cement plaster and pressed brick. Plans complete and figures being taken. Bids close on April 19th.

SCHOOL—1 story, frame, $4,000. Fresno, Fresno Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Kearney School District. Designed for a district school and will contain two class rooms. Interior finish pine. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—1 story and base, brick, $15,000. Bakersfield, Kern Co., Cal. Architect, O. L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Location, Union and Truxton avenues. Will contain four class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and oil burning furnace. Exterior faced with cement plaster and pressed brick. Plans nearly complete and figures to be called for shortly.

LABOR TEMPLE—2 story and base, brick, $20,000. Bakersfield, Kern Co., Cal. Architect, Thomas Dupes, Bakers-

field. Owners, Kern County Labor Council. Location, I street between 21st and 22nd streets, covering an area of 42 feet by 110 feet. Only preliminary plans have been prepared and construction will not be started until at least $16,000 can be raised. Further mention will be made of the work.

PASSENGER STATION—2, 2 story, hollow tile and concrete, $25,000. Fresno, Fresno Co., Cal. Architect, Engineering Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Two wings will be added to the present station and will be arranged for baggage and express. The main waiting room and office will be enlarged. Exterior will be faced with cement plaster. Plans are complete and figures are being taken.

BRIDE—Reinforced concrete. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. The Supervisors have rejected all bids received for the construction of bridge No. 46 in Merced County and new bids will be called for.

BRIDGE—Reinforced concrete and steel. Cost not stated. San Andreas, Calaveras Co., Cal. Engineer, County Surveyor Coulter, San Andreas. Owners, Calaveras County. W. S. Coulter, County Surveyor, at the last meeting of the Board of Supervisors was instructed to make the necessary measurements and profile drawings in order that plans and specifications for the construction of a new reinforced concrete bridge over the Calaveras River at the present site of the old so-called "Genoohio Bridge" may be drawn.

POWER PLANT AND EQUIPMENT—$150,000. Madera, Madera Co., Cal. Engineer, Engineering Department of San Joaquin Light and Power Co., Madera Owners, San Joaquin Light and Power Co., A. G. Wishon, Manager, Madera. Machinery for a 3,000 kilowatt plant has been ordered, hut the factory will not be able to fill the order until about October 1. By that time, Mr. Wishon says, the building the outbuildings and three attendants' cottages, as well as all the tunnels and ditches for the water will be completed. Work is to begin at once.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $19,-915.50. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractors, George Snyder & Co., Salinas. Contract price, $19,915.50.

STREET IMPROVEMENT—Cost not stated. Visalia, Tulare Co., Cal. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price not stated.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA.

ARMORY—2 story and base, reinforced concrete. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. The opening of bids on the Stockton State Armory has been postponed to Thursday, May 4th, due to May 2nd being a holiday. Official notification appears under the heading of Sealed Proposals.

SEWER CONSTRUCTION—Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. The City Council is making preparation for the sewering and installation of culverts in Myrtle avenue before the street is paved. It is probable that bids for the sewer work will be called for at the next meeting.

STREET AND HIGHWAY IMPROVEMENTS—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Bids have been ordered received by the Supervisors up to May 3rd at 10 a. m. for the improvement of the main street of the town of Ripon. Bids have also been ordered for the improvement of the Perrott road to close at the same time. Plans may be had from the County Clerk.

STREET IMPROVEMENTS—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following contracts have been awarded by the City Commission of Sacramento: To the McGillivray Construction Co., 1007 7th street, Sacramento, for the improvement of portions of N, O, P, and Q streets by constructing concrete curbs, gutters, 6 and 8 inch vitrified ironstone sewer pipe, elbows attached, etc.; also grading the roadway and constructing an asphaltic macadam pavement, consisting of a hydraulic concrete foundation 5 inches in thickness and an asphaltic macadam wearing surface 1½ inches thick. To Clark & Henery Construction Co., Oschner Bldg., Sacramento, improving Bonita avenue from the Western Pacific to Freeport road, by removing and disposing of all wooden curb, etc.; constructing concrete curb, concrete gutter, concrete sidewalk 5 feet wide and 3½ inches thick, grading the roadway and constructing a pavement consisting of a hydraulic concrete foundation 4 inches thick and an asphaltic concrete wearing surface 1½ inches thick. To W. J. Tobin, 735 Filbert street, Oakland, improvement of California avenue from the Lower Stockton road to 28th street tract: excavating a trench, 6, 8 and 10 inch vitrified ironstone pipe sewer, two cast iron gutter drains, 1 gutter drain, etc. Portion of Lower Stockton road he improved by excavating a trench and constructing therein an 8 inch vitrified ironstone pipe sewer. That the alley extending from Lincoln avenue to California avenue he improved by excavating a trench, an 8-inch vitrified ironstone pipe sewer, one cast iron gutter drain. That the alley running east and west in the 28th street tract he improved by excavating a trench, and 8-inch vitrified ironstone pipe sewer, cast iron gutter drain, six concrete manholes, complete with cast iron curbs and covers; placing 68 6-inch vitrified ironstone Y branches.

HIGHWAY CONSTRUCTION — $5,-375. Roseville, Placer Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. The Ross Construction Co., Forum Bldg., Sacramento, submitted the lowest bid at $5,375 for the highway work in Placer County, one mile north of Roseville city limits. (III-Pla13-A0) about 630 feet in length (including two abutments for an under crossing of the railroad), to be paved with Portland cement concrete. Engineer's estimate, $9,661.73.

HIGHWAY CONSTRUCTION — Cost not stated. Oroville, Butte Co., Cal. Engineer, County Surveyor, Oroville. Owners, Butte County. Bids will be opened on April 27th for road work on the Biggs and Princeton road according to the plans and specifications now on file in the office of the County Clerk.

STREET IMPROVEMENT — Cost not stated. Willits, Mendocino Co., Cal. Engineer, Town Engineer, Willits. Owners, Town of Willits. Bids will be opened on April 14th for the improvement of that portion of Main street as shown on the plan for paving main street and designated thereon as Section 1, be graded to the official grade and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick, and that hydraulic concrete curbs and gutters be constructed therein.

STREET IMPROVEMENT—Cost not stated. Willits, Mendocino Co., Cal. Engineer, Town Engineer, Willits. Owners, Town of Willits. Bids will be opened on April 14th for improving that portion of Main street as shown on the plan for paving Main street, and designated thereon as Section 2, be graded to the official grade and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick.

SCHOOL—2 story and base, concrete, steel and brick, $69,196. Red Bluff, Tehama Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Red Bluff School District. Contractor James L. McLaughlin, 244 Kearny street, S. F. Subfigures are wanted on the following parts of the work: Lumber, common and face brick, sheet metal work, mill work, glass and glazing, ornamental iron, structural steel, marble work, tile, architectural terra cotta, Hauser or Simplex windows, finish hardware and composition floors.

SIDEWALK AND GUTTERS — Cost not stated. Redding, Shasta Co., Cal. Engineer, City Engineer, Redding. Owners, City of Redding. Bids will be opened on April 17th for the construction of a concrete sidewalk, curb and gutter on the south side of Yuba street, between the westerly side of the railroad track of the Southern Pacific Co. and the Redding Hotel.

IRRIGATION WORK—Cost not stated. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson Irrigation District, Anderson. Owners, Anderson-Cottonwood Irrigation District. The Board of Directors of the Anderson-Cottonwood Irrigation District at their last meeting passed a resolution calling for bids on the construction of the irrigation system as well as on materials to be used in building it. The bids are to be opened in the office of the district in Anderson April 29th at 10 o'clock a. m. The district asks for bids on 13,000 barrels of cement, 3,600 feet of cast iron pipe ranging from 36 to 12 inches in diameter, 27,000 feet of metal flume and other material necessary for the construction of the system. The specifications for material and construction can be inspected at the office of the company at Anderson. The district asks for bids on the construction of the main canal, which will be 36 miles long, concrete dams, gates, drops, syphons, drains, bridges, flumes and fence crossings. All of these are described and specified in the plans on file. The laterals will be about 36

miles in length, making the ditch cover an aggregate length of approximately 72 miles. Bonds of $450,000 have been sold for this work.

RESIDENCE — 1 story and base, frame, $3,000. Stockton, San Joaquin Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, Chester H. Miller. Location, Yosemite Terrace. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, W. D. McKay, 3029 E street, Sacramento. Location, 921 31st street. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Complete Figures For Placer Co. Highway.

Small State Highway Job With Two Abutments Attracts a Number of Bidders. Contract Not Awarded.

The following is a complete list of the figures received by the State Highway Commission for construction approximately 630 feet of Portland cement highway with two abutments near Roseville, Placer County:

Placer Co., Div. 3, Route 3, Sec. A.

V. N. Price, Alameda	$ 9,185.50
Wilson & Christiansen, S. F.	6,580.50
MacRea & Layaz, S. F.	9,100.75
Tieslau Bros, Berkeley	5,954.00
Marsh Bros. & Gardenier, S. F.	12,955.50
T. M. Olney, Oakland	6,883.00
T. M. Burns, Sacramento	6,271.00
C. H. & A. W. Gorrill, Okd.	9,260.25
Joe Lawrence, Broderick	7,633.75
M. Blumenkranz, Sacramento	8,353.50
Ross Constr. Co., Sacramento	5,375.00
Jenkins & Wells, Sacramento	6,425.00
J. A. Marshall, Berkeley	9,888.00

Engineer's Estimate, $9,661.73.

Materials furnished by the State: Sand and coarse aggregate. Total, $2,656.

LOS ANGELES & SOUTHERN CALIFORNIA.

STREET IMPROVEMENT — $15,000. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, Town of San Luis Obispo. San Luis Obispo will have a highway through the city to connect with the State highway at the east and west ends, the Supervisors having agreed to assist them in a financial way by taking $15,000 from the general fund to build the highway required. The new highway is to be 18 feet wide and constructed in the same manner as the State highway.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architects, Frank T. Kegley and Scott Gerrity, Consolidated Realty Bldg., L. A. Owner's name withheld. Location, Brentwood Pork. Will contain 22 rooms, 5 baths and separate garage. Interior finish hardwood and white enamel. Hardwood floors. Bath rooms tile. Hot water system of heating. Showers. Open fire places and tile and brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

RESIDENCE — 2 story and base, frame, $18,000. Los Angeles, Cal. Architect, G. Ivan Peoples, Haas Bldg., L. A. Owner, J. H. Smailes. Location, Commonwealth avenue. Will contain ten rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water, hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—4 to 7 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, C. F. Borton, Hibernian Bldg., L. A. Location, Olive street north of 3rd, covering an area of 51 by 140 feet. Will contain a large number of two room apartments. Interior finish pine, hardwood and white enamel. Steam heat, oil burning system and hot water supply. Automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—4 story and base, brick and steel. Cost not stated. Los Angeles, Cal. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. F. Head. Location, Hartford avenue between 7th and 8th, covering an area of 50 by 100 feet. Will contain 55 rooms arranged in two and three room apartments. Interior finish pine and elm panels. Some hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick and cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base. Class C construction. Cost not stated. Long Beach, Los Angeles Co., Cal. Architect, Frank H. Gentry, Union Oil Bldg., L. A. Owner, J. Westley Robinson. Location, Ocean avenue, Park and Hart streets, covering an area of 60 by 118 feet. Will contain 38 apartments of two and three rooms. Interior finish pine and redwood. Private baths and wall beds. Bath rooms composition floors. Steam heat and oil burning equipment. Exterior faced with pressed brick. Plans complete and figures being taken.

SCHOOL—1 story and base, frame. Cost not stated. Calexico, Imperial Co., Cal. Architect, Earl Frary, Calexico. Owners, City of Calexico. Will contain three class rooms. Interior finish pine. No heating. Exterior covered with cement plaster. Plans complete and figures being taken. Bids open on April 18th.

GARAGE AND SALES ROOMS — 5 story and base. Class A construction. Cost not stated. Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, H. M. Newmark, leased to J. W. Leavitt Co. Location, northeast 12th and Hope streets, covering an area of 100 by 150 feet. Construction fireproof, complete steel frame and brick and concrete walls. Interior of office portion finished in hardwoods and tile. Steam heat, oil burning plant, elevator service and vacuum cleaning. Patent store fronts and marble bases. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures being taken.

HOSPITAL POWER PLANT — Cost not stated. Norwalk, Los Angeles Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be opened on May 1st for furnishing the boiler plant equipment for the new power house at the Norwalk State Hospital. Plans can be secured from the State Dept. of Engineering. An official proposal appears in another column of this issue.

LIBRARY—1 story and base, brick, $34,000. Hollywood, Los Angeles Co., Cal. Architect, C. H. Russell, Story Bldg., L. A. Owners, City of Hollywood. Location, northeast Santa Monica and Madison, covering an area of 96 by 90 feet. Will contain two reading rooms, lecture hall and stack room. Interior finish pine and hardwood with maple floors. Central heating system. Metal book stacks. Exterior faced with pressed brick. Plans complete and figures being taken. Bids open on April 21st.

Contracts Awarded

BRIDGES — Reinforced concrete. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Contractor, A. A. Patterson, Santa Maria. First bridge over Zaca Creek at station 599 plus —, $4,790; second bridge over Zaca Creek at station 382 plus 60, $4,732; third bridge over Zaca Creek, $7,463. Engineer's estimate on the three bridges, $18,000.

RESIDENCE — 2 story and base, frame. Cost not stated. Pasadena, Los Angeles Co., Cal. Architect, Joseph F. Rhodes, Central Bldg., L. A. Owner, Andrew McDearmott. Contractor, Joseph F. Rhodes, Central Bldg., L. A. Contract price not stated.

GARAGE—3 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owner, Mrs. M. H. Olmsted. Contractors, The Broadway Construction Co., 235 East Washington street, L. A. Contract price not stated.

PORTLAND AND OREGON

BRIDGES—Steel and concrete. Cost not stated. Dallas, Ore. Engineer, County Surveyor, Dallas. Owners, Polk County. The County Clerk of Polk County is taking bids until 1 p. m., April 25th for several bridge contracts, involving three new structures, and moving one bridge and placing it in a new position on new concrete abutments. The work includes the taking down, moving and erecting of the steel bridge in North Independence, which is to be moved to a position on Soap

Creek, about 3½ miles southwest of Buena Vista, and for the construction of concrete abutments for this bridge. Second—For moving old fill to make new fill, about 20,000 cubic yards of earth, in North Independence. Third—For constructing a concrete bridge in North Independence. Fourth—For constructing a wooden bridge across the Luckiamute River at Falls City. Fifth—For constructing a wooden bridge across Mill Creek, 2½ miles south of Buell bridge. For the North Independence concrete bridge the bidders are to furnish their own plans from specifications on file with the court at Dallas.

CHURCH—1 story and base, reinforced concrete, $22,000. Astoria, Ore. Architects, Whitehouse & Fouilhoux, Wilcox Bldg., Portland. Owners, Methodist Church. Will contain a large sosial hall, main auditorium and Sunday school rooms. Interior finish pine and ornamental plaster. Art glass. Steam heat. Exterior faced with cement plaster. Plans being prepared.

WAREHOUSE—2 story and base, mill construction, $15,000. Portland, Ore. Architect, Lewis I. Thompson, Central Bldg., Portland. Owners, Portland Woolen Mills. Location, St. Johns street, covering an area of 130 by 60 feet. Construction fireproof. No interior finish except in office portion. Special machinery. Exterior covered with pressed brick. Plans complete and work to be done by Day Labor.

HOSPITAL—2 story and base, brick, $26,000. Portland, Ore. Architect, Jacob Bautoff, Stock Exchange Bldg., Portland. Owner, Dr. Nohle W. Jones. Location, Marshall and Lovejoy streets, covering an area of 57 by 100 feet. Will contain a number of private rooms, operating room and office. Interior finish white enamel and hardwood. Considerable tile will be used. Steam heat, oil burning plant and vacuum cleaning. Hot water supply. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor under the direction of the architect.

Contracts Awarded

RESIDENCE — 2 story and base brick and tile, $50,000. Portland, Ore. Architect, A. E. Doyle, Worcester Bldg., Portland. Owner, Col. Henry Cabell. Contractors, McHolland Bros., 669 East Everett street, Portland. Contract price, $50,000.

SEATTLE AND WASHINGTON

APARTMENT HOUSE—8 story and base, reinforced concrete, $200,000. Seattle, Wash. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owners, Coast Exchange Investment Co. Location, northwest corner of Boren and John streets, covering an area of 60 by 120 feet. Interior arranged for two, three and four room apartments. Pine, hardwood and white enamel finish. Hardwood floors. Automatic elevators, steam heat and hot water supply. Wall beds. Bath rooms finished in tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

FACTORY—4 story and base, reinforced concrete, $60,000. Seattle, Wash. Architect, L. L. Mendell, Oriental Bldg., Seattle. Owners, Standard Furniture Co. Location, northeast 4th avenue and South Waller, covering an area of 120 by 270 feet. Construction fireproof. Interior finish rough. Concrete floors. Automatic sprinklers. Metal window sash and frames. Separate power plant. Exterior faced with cement plaster. Plans being prepared

Contracts Awarded

APARTMENT HOUSE—3 story and base, brick, $30,000. Seattle, Wash. Architect, F. H. Fowles, Central Bldg., Seattle. Owner, J. S. Williams. Contractors, Walter & Brady, 1049 Latoma avenue, Seattle. Contract price, $30,000.

DOUGLAS FIR TESTED BY BRITISH RAILWAY.

[North China Daily News, Shanghai.]

Two Douglas fir and two red-cedar railway ties were recently forwarded by the forest branch of the Department of Lands to the Great Eastern Railway Co. of England, which selected two sleepers from its stock which it obtained from the Baltic and tested them all under similar conditions. The results of these tests show beyond a doubt the superiority of British Columbian Douglas fir for railroad ties.

It was found that uider compression Douglas fir will stand 5,695 pounds per square inch, as against the Baltic timber mark of 3,950 pounds per square inch, while red cedar made a very creditable showing against the Baltic timber of 3,407 pounds per square inch. Tests in tension were even more favorable for Douglas fir. This is shown by the fact that it would take 11,450 pounds, or more than 5½ tons, to pull apart a stick of Douglas fir having a cross section of 1 square inch, whereas just half that weight would suffice to pull apart Baltic timber, and only 3,300 pounds were required to separate cedar.

THE PRINCE RUPERT DRY DOCK.

VANCOUVER, B. C.—Detailed description of the government dry dock at Prince Rupert, B. C., was given recently by Mr. Pillsbury, of the engineering staff of Grand Trunk Railway Co. Dock has lifting capacity of 20,000 tons, about same tonnage of steamer 600 feet long. Is in three sections, each one capable of being sunk and lifted independently for the accommodation of smaller vessels. There is complete power and light plant in connection, machine shops, etc. Cost of whole plant, dock, etc., $2,600,000, cost of dock alone $800,000. It is the largest but one of any similar dock in the Dominion.

DEPARTMENT OF THE INTERIOR.

United States Geological Survey—New Publications: List 96, March 1, 1916.

The following publications have been issued recently:

Reports.

Professional Paper 98-A. Evaporation of Brine from Searles Lake, Cal., by W. B. Hicks, 1916. Pp. 1-8, Figs. 1-2. Part of Professional Paper 98. "Shorter contributions to general geology, 1916."

Bulletin 620-0. A Reconnaissance for Phosphate in the Salt River Range, Wyo., by G. R. Mansfield, 1916. Pp. 331-349, Pl. XII. Part of Bulletin 620, "Contibutions to economic geology, 1915, Part I."

Bulletin 621-M. Geology and Oil Prospects of Cuyama Valley, Cal., by W. A. English, 1916. Pp. 191-215, Pls XIX-XXI, Fig. 12. Part of Bulletin 621, "Contributions to economic geology, 1915, Part II."

Water-Supply Paper 375-G. Ground Water in Lasalle and McMullen Counties, Tex., by Alexander Deussen and R. B. Dole, 1916. Pp. 147-177, Pls. VIII-IX, Fig. 31. Part of Water-Supply Paper 375, "Contributions to the hydrology of the United States, 1915"

Parts of Mineral Resources of the United States, 1914, as follows: The Production of Cobalt, Molybdenum, Nickel, Tin, Titanium, Tungsten, Radium, Uranium, and Vanadium in 1914, by F. L. Hess, 1916. Pp. 923-946. Part 1: 25. The Production of Antimony, Arsenic, Bismuth, Selenium and Tellurium in 1914, by F. L. Hess, 1916. Pp. 947-977. Part 1: 26.

Mineral Resources of the United States, 1914, Part II, Nonmetals, 1916. IV: 1122 pages, 5 plates, 11 text figures. Statistics of the production, importation, and exportation of the nonmettalliferous mineral substances in the United States in 1914—a consolidation of 34 advance chapters. Contains an insert showing the production of coal in the United States from 1807 to the close of 1914.

MAKE JITNEYS USEFUL, NOT DESTRUCTIVE.

The city of Vancouver, B. C., has lost over half the gross earnings tax from street car fares for 1915 on account of jitney competition.

In 1915 the city revenue from this source fell off from $70,000 to $32,312, a loss of $38,000, or over fifty-four per cent.

The street car company carried 25,956,000 passengers in 1915 as compared with 37,540,000 in 1914, a falling off of 11,584,000.

The loss was probably due in part to depression caused by the European war but mostly to jitney buses.

Communities are going to learn to utilize the jitney bus by granting franchises on streets not already supplied with transportation.

But they are going to take the unregulated jitney off congested streets where they only destroy the earning power of street car systems that produce large city revenue.

Such exclusive jitney franchises in portions of the city not having street car lines would be valuable.

They would produce city revenues instead of destroying them and furnish the people with transportation where it is needed.

Large rafts and barges on the Yenisei River serve a double purpose, which is probably not duplicated elsewhere in the world. This Siberian River, the fifth longest in the world, varies in width from ten to thirty miles for a distance of 200 miles from the mouth, and from the upper parts rafts made of timber are sent down, simply drifting with the current. A kind of rough barge is also used, purely for drifting purposes, which is usually sent from the more cultivated districts on the upper part of the river loaded with various necessaries of life and broken up for building purposes at its destination, which is north of the line where trees grow.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
916	Hincken	Evans	14400
917	Ousset	McKay	11632
918	Muller	Knight	4945
919	Janssen	Black	6430
920	Same	Petersen	773
921	Livingston	Maffei	8450
922	Allan	Allan	——
923	Same	Same	——
924	Same	Same	——
925	Same	Same	——
926	Same	Same	——
927	Same	Same	——
928	Same	Same	——
929	Same	Same	——
930	Sherman	Sherman	2500
931	Hansen	Hansen	1675
932	Solari	Henderson	1250
933	Woodford	Shulte	2870
934	Schweizer	Munk	1800
935	Lephakis	Thunberg	4000
936	Rupp4	Sanborn	1950
937	Progress Lndry.	Lindgren	4300
938	Larson	Hein	2850
939	Hind	Leigh	2600
940	Hind	Leigh	2000
941	Haimovitch	Driscoll	1500
942	Friedman	Trounson	1500
943	Engelfield	Anderson	2200
944	Sharboro	Biller	12800
945	Henry	Holmes	2800
946	Lazzarini	Feroni	2000
947	Pollack	Little	11000
948	Schuller	Bessett	2225
949	Woodhams	Fillipis	2000
950	Sperry	Van Sant	20000
951	Schulz	Munster	5000
952	Leder	Larsen	2000
953	Tomlinson	Hinson	5913
954	Bellegarde	Grell	400
955	Kanakariz	Vlass	500
956	Towne	Towne	1200
957	Paulsen	Petterson	800
958	Roundey	Roundey	30000
959	Derenzo	Amoroso	1000
960	Mertens	Mertens	408
961	Merrill	Lobboro	1000
962	Evans	Evans	1800
963	Rixford	Campbell	400
964	Lemey	Lemey	400
965	Morcunko	Rodometkin	500
966	Avanzino	Ardito	400
967	Mignacco	Pagano	450
968	Muuder	Muuder	400
969	Rainier Brwg	Sound	1900
970	Fallmer	Fallmer	3000
971	Scully	Terry	500
972	Byrnes	Lucas	1000
973	Gillogley	Gillogley	2950
974	Kelly	Segurson	1360
975	Congdon	Johnson	18000
976	Ferrari	Fossati	3625
977	Sudden	Joost	687
978	Cames	Reilly	13369
979	Marks	Holt	21824
980	Baur	Cook	2625
981	O'Neill	Stanquist	1450
982	City Electric	Jensen	9734
983	Lobree	Linden	5978
984	Paramount	Paramount	3000
985	Same	Same	3000
986	Same	Same	3000
987	Same	Same	3000
988	Same	Same	3000
989	Detrick	Urfer	900
990	Meinert	Sullivan	3850
991	Handy	Koiler	800
992	Rufer	Sbarman	600
993	Connolly	Reedy	3350
994	Lesser	Federal Sign	400
995	Hunter	Hunter	1100
996	Davis	James	1047
997	Kemp	Kemp	600
998	O'Malley	Brueck	500
999	Barbato	Mosetti	1000
1000	Thorsen	Larson	440
1001	Testa	Orri	1300
1002	Bruns	Raetz	1500
1003	Helms	Helms	2500
1004	Ellingen	Johnson	6000
1005	Ghirardelli	Larsen	19200
1006	Same	Central	14900
1007	Same	Petersen	15100
1008	Erlanger	Higginson	9228

FRAME STORES AND FLATS

(916) W RUSS AND FOLSOM SW 50 XNW 100. All work for two-story frame stores and flats.

Owner.....Henry C. Hincken, Mill Valley, Cal.

Architect...Plans by Contractor.

Contractor..O. E. Evans & Co., 2569 Mission, San Francisco.

Filed Apr. 3, '16. Dated Dec.29,'15.

Frame up $650
Brown coated 650
Completed and accepted..... 650
Balance, $11,400 to be secured by installment deed of trust.....

TOTAL COST, $14,400

Bond, $7200. Sureties, R. Sinnott and Frank C. Hilton. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS

(917) W FOURTEENTH AVE 94-11 N Anza N 50xW 85. All work for two two-story frame flats.

Owner.....Celeste M. Ousset, 433 14th Ave., San Francisco.

Architect...Benjamin S. Hirschfeld, 251 Kearny, San Francisco.

Contractor..George William McKay, 406 14th Ave., S. F.

Filed Apr. 3, '16. Dated Mar. 31, '16.

On 15th of each month..... 75%
Usual 35 days..... 25%

TOTAL COST, $11,632

Bond, $5816. Surety, Massachusetts Bonding & Insurance Co. Limit, July 1, 1916. Forfeit, $10. Plans and specifications filed.

FRAME FLATS

(918) N EIGHTEENTH 55 E Lexington E 25x85. All work for two-story and basement frame (4) flats.

Owner.....Geo. A and Mary A. Muller.

Architect...None.

Contractor..Chester L. Knight, 467 Rolph, San Francisco.

Filed Apr. 3, '16. Dated Mar. 30, '16.

Frame up $1236.40
Brown coated 1236.40
Completed and accepted..... 1236.40
Usual 35 days..... 1236.40

TOTAL COST, $4945.60

Bond, $2500. Sureties, George Creon and Emily Knight. Limit, 100 working days after 1st delivery of lumber. Forfeit, none. Plans and specifications filed.

FRAME FLATS

(919) SW TWENTY-FIFTH & GUERRERO S 57-6 W 100 S 27-6 E 100 N 27-6 H A 31. Excavation, concrete, carpenter, patent chimneys, mill, plaster, glazing, stair, roofing, hardware, incandescent bell and telephone wiring, etc., for two-story and basement frame flats.

Owner.....Annie M. Janssen.

Architect...H. Geilfuss & Son, 46 Kearny, San Francisco.

Contractor..W. J. Black, 1306 Guerrero San Francisco.

Filed Apr. 3, '16. Dated Mar. 3, '16.

Frame up $1205
Brown coated 1205
White coated and concrete floors in 1205
Completed and accepted..... 1205
Usual 35 days..... 1610

TOTAL COST, $6430

Bond, $3215. Sureties, Eleanor M. Black and M. I. Neshet. Limit, 75 days. Forfeit, $5. Plans and specifications filed.

(920) PLUMBING, GAS FITTING & sewerage on above.

Contractor..Petersen-James Co., Inc., 710 Larkin, San Francisco.

Filed Apr. 3, '16. Dated Mar. 30, '16.

Work roughed in..... $286
Completed and accepted..... 287
Usual 35 days..... 200

TOTAL COST, $773

Bond, $386.50. Sureties, Geo. F. Rueter and Oscar H. Curtaz. Limit, 6 days after carpenter work done. Forfeit, $5. Plans and specifications filed.

FRAME FLATS AND GARAGE

(921) NW FILBERT AND LEAVENworth W 87-6xN 37-6. All work for two-story and basement frame flats and garage.

Owner.....George E. Townsend and Ernest S. Livingston, 1217 Jones, San Francisco.

Architect...Koenig-Christensen, Humboldt Bank Bldg., S. F.

Contractor..Maffei Bros.

Filed Apr. 3, '16. Dated Mar. 30, '16.

Frame up $2112.50
Brown coated 2112.50
Completed and accepted..... 2112.50
Usual 35 days..... 2112.50

TOTAL COST, $8450.00

Bond, $4500. Sureties, Nick Capurro and Vincent Leuci. Limit, 100 days from filing. Forfeit, $10. Plans and specifications filed.

FRAME RESIDENCE

(922) E FORTY-THIRD AVE 75 S Cabrillo. All work for two-story and basement frame residence.

Owner.....Martin & Elsie May Allan.

Architect...None.

Contractor..Day's work.

Filed Apr. 3, '16. Dated ——.

Payments not given.....

TOTAL COST, $——

Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

(923) E FORTY-THIRD AVE 50 S Cabrillo. All work for two-story and basement frame residence.

Owner.....Martin & Elsie May Allan.

Architect...None.

Contractor..Day's work.

Filed Apr. 3, '16. Dated ——.

Payments not given.....

TOTAL COST, $——

Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

(924) E FORTY-THIRD AVE 25 S Cabrillo. All work for two-story and basement frame residence.

Owner.....Martin & Elsie May Allan.

Architect...None.

ontractor..Day's work.
lled Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
ond, limit, forfeit, none. Plans and pecifications filed.

FRAME RESIDENCE
(925) W FORTY-THIRD AVE 131 S Cabrillo. All work for two-story and basement frame residence.
Owner.....Martin & Elsie May Allan.
Architect ...None.
Contractor..Day's work.
Filed Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(926) W FORTY-THIRD AVE 106 S Cabrillo. All work for two-story and basement frame residence.
Owner.....Martin & Elsie May Allan.
Architect ...None.
Contractor..Day's work.
Filed Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(927) W FORTY-THIRD AVE 81 S Cabrillo. All work for two-story and basement frame residence.
Owner.....Martin & Elsie May Allan.
Architect ...None.
Contractor..Day's work.
Filed Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(928) W FORTY-THIRD AVE 31 S Cabrillo. All work for two-story and basement frame residence.
Owner.....Martin & Elsie May Allan.
Architect ...None.
Contractor..Day's work.
Filed Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(929) W FORTY-THIRD AVE 56 S Cabrillo. All work for two-story and basement frame residence.
Owner.....Martin & Elsie May Allan.
Architect ...None.
Contractor..Day's work.
Filed Apr. 3, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(930) W EDGEWOOD 244 S Farnsworth. Two-story and basement frame residence.
Owner.....A. G. Sherman, 749 Monadnock Bldg., San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(931) S LATONA 100 W Bay View. One and one-half-story and basement frame dwelling.
Owner.....Lester Hansen, 1430 Fairfax, San Francisco.
Architect ...None.
Day's work. COST, $1675

ALTERATIONS
(932) SW GEARY AND MASON. Cut stairway and new floor.
Owner.....Fred Solari, Premises.
Architect ...None.
Contractor..J. H. Henderson, 908 O'Farrell, San Francisco.
COST, $1250

FRAME FLATS
(933) S HARRINGTON 300 W Mission. Two-story and basement frame (2) flats.
Owner.....H. Woodford, 55 Harrington, San Francisco.
Architect ...None.
Contractor..H. Shulte, 34 Norton, S. F.
COST, $2870

FRAME FLATS
(934) S COLTER 325 W Mission. Two story and basement frame (2) flats.
Owner.....K. Schweizer, 37 Colter, San Francisco.
Architect ...None.
Contractor..Fred G. Munk, 58 Francis, San Francisco.
COST, $1800

FRAME RESIDENCE
(935) E THIRTEENTH AVE 32-6 S Cabrillo. Two-story and basement frame residence.
Owner.....Dr. J. L. Lephakis, 677 9th Ave., San Francisco.
Architect ...None.
Contractor..Oscar Thunberg, 678 9th Ave., San Francisco.
COST, $4000

FRAME DWELLING
(936) E THIRTEENTH AVE 175 N Irving. One-story and basement frame dwelling.
Owner.....F. C. Ruppel, 681 3rd Ave., San Francisco.
Architect ...J. H. Von Ahnden, 251 Kearny, San Francisco.
Contractor..Luther Sanborn, 71 7th Ave., San Francisco.
COST, $1950

FRAME LAUNDRY
(937) E FOLSOM 50 N 17th. Two-story frame laundry.
Owner.....Progress Laundry Co., Premises.
Architect ...Earl H. Markwart, Monadnock Bldg., S. F.
Contractor..Lindgren Co., Monadnock Bldg., San Francisco.
COST, $4300

FRAME DWELLING
(938) E TENTH AVE 170 N Lawton. Two-story and basement frame dwlg.
Owner.....Lauritz Larson, 172 Hartford, San Francisco.
Architect ...None.
Contractor..Theo. H. Hein, 270 Coleridge, San Francisco.
COST, $2850

FRAME RESIDENCE
(939) E EIGHTEENTH AVE 110 N Judah. Two-story and basement frame residence.
Owner.....Hind Estate, 245 Montgomery, San Francisco.
Architect ...L. E. Peyser, 2447 26th Ave., San Francisco.
Contractor..Leigh & Schultz, 419 21st Ave., San Francisco.
COST $2000

FRAME RESIDENCE
(940) E EIGHTEENTH AVE 135 N Judah. Two-story and basement frame residence.
Owner.....Hind Estate, 245 Montgomery, San Francisco.
Architect ...L. E. Peyser, 2447 26th Ave., San Francisco.
Contractor..Leigh & Schultz, 419 21st Ave., San Francisco.
COST $2000

FRAME DWELLING
(941) W FOURTEENTH AVE 100 N Judah. One-story and basement frame dwelling.
Owner.....D. Haimovitch, 1282 7th Ave., San Francisco.
Architect ...None.
Contractor..R. T. Driscoll, 174 Ashton, San Francisco.
COST, $1500

ALTERATIONS
(942) NO. 273 POST. Install five sound proof rooms for talking machines.
Owner.....Friedman & Co., Premises.
Architect ...None.
Contractor..J. Trounson, 121 5th, S. F.
COST, $1500

ALTERATIONS
(943) NO. 21 BERNARD. Raise and alter frame cottage and convert same into two flats.
Owner.....Mrs. Laura Engelfield, 21 Bernard, San Francisco.
Architect ...None.
Contractor..J. M. Anderson, 1612 Pacific Ave., San Francisco.
COST, $2200

FRAME RESIDENCE
(944) NW GREEN & DIVISADERO. Two-story and basement frame residence.
Owner.....Romolo A. Sbarboro.
Architect ...John H. Powers, 460 Montgomery, San Francisco.
Contractor..J. Biller, 460 Montgomery, San Francisco.
COST, $12,800

FRAME DWELLING
(945) E SEVENTEENTH AVE 35 S Quintara. One-story and basement frame dwelling.
Owner.....W. P. Henry, 307 Foxcroft Bldg., San Francisco.
Architect ...None.
Contractor..A. S. Holmes, 402 Hearst Bldg., San Francisco.
COST, $2800

FRAME FLATS
(946) E HYDE 137-6 N Bay (rear). Two-story and basement frame (2) flats.
Owner.....S. Lazzarini & G. Tocchini, Premises.
Architect ...None.
Contractor..G. Feroni, Premises.
COS, $2000

FRAME RESIDENCE
(947) S BROADWAY 43-9 E Scott. Two-story basement and attic frame residence.
Owner.....Allan Pollack, Flood Bldg., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Contractor..M. A. Little, 1347 4th Ave., San Francisco.
COST, $11,000

FRAME DWELLING
(948) S COLLEGE AVE 125 E Marsily Two-story and basement frame dwlg.
Owner.....J. F. Schufler, 137 College Ave., San Francisco.
Architect ...None.
Contractor..C. H. Bessett, 343 29th Ave. San Francisco.
COST, $2225

REPAIRS
(949) S FILBERT 56 E Kearny. Repair fire damage. Plastering, mill work, painting, plumbing, etc., to frame building.
Owner.....O. L. Woodhams, 21 Columbus Ave., San Francisco
Architect ...None.
Contractor..V. Fillipis, 21 Columbus Ave., San Francisco.
COST, $2000

CONCRETE GARAGE
(950) NE SANSOME AND GREEN. Three-story and basement concrete private garage and demonstration building.
Owner.....Sperry Flour Co., 332 Pine, San Francisco.
Architect ...C. A. Tantau, Clunie Bldg., San Francisco.
Contractor..Van Sant-Houghton Co., 503 Market, San Francisco.
COST, $20,000

FRAME FLATS
(951) W FIFTEENTH AVE 42-6 S Lake. Two-story and basement frame (2) flats.
Owner.....Chas. A. Schulz, 366 30th Ave., San Francisco.
Architect ...None.
Contractor..Munster & Bornholdt, 1530 Broderick, San Francisco.
COST, $5000

FRAME DWELLING
(952) N SATURN Lot 19 Blk "R" Park Lane Tract No. 5. All work for one-story and basement frame dwelling.
Owner.....Max Leder, 80 Saturn, San Francisco.
Architect ...Koenig & Christiansen, Humboldt Bank Bldg., S. F.
Contractor..S. Larsen, 360 Prospect Ave., San Francisco.
Filed Apr. 4, '16. Dated Mar. 30, '16.
Foundations in $375
Frame up 375
Brown coated 375
Completed and accepted..... 375
Usual 35 days..... 500
TOTAL COST, $2000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(953) E DIVISADERO 27-8¼ S Washington S 25xE 110. Alterations except plumbing electric fixtures, heating and shades to alter frame residence into flats.
Owner.....May Palmer Tomlinson, 2240 Divisadero, S. F.
Architect ...Arthur S. Bugbee, 1684 Washington, S. F.
Contractor..L. A. Hinson, 180 Jessie, San Francisco.
Filed Apr. 4, '16. Dated Mar. 27, '16.
House moved and foundations in $1108.50
House ready for plaster..... 1108.50
Mill work in place..... 1108.50
Building accepted 1108.50
Usual 35 days..... 1479.00
TOTAL COST, $5913.00
Bond, none. Limit, 80 days after Apr. 1. Forfeit, $10. Plans and specifications filed.

FRAME FLATS
(954) N BERNARD 160-6 W Jones W 23xN 60. All work for two-story and basement frame flats.
Owner.....P. Bellegarde, Spring and Summer, San Francisco.
Architect ...Oliver Everett, 1740 Webster, San Francisco.
Contractor..P. H. Grell, 1754 Mission, San Francisco.
Filed Apr. 4, 16. Dated Mar. 31, '16.
Roof sheathed $1100
White coated 1100
Completed and accepted..... 1100
Usual 35 days..... 1100
TOTAL COST, $4400
Bond, $2200. Sureties, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

ALTERATIONS
(955) NO. 351 MARKET. Alter for lunch counter.
Owner.....E. Kanakariz, 1113 Market, San Francisco.
Architect ..None.
Contractor..J. Vlass, 351 3rd, S. F.
COST, $500

ALTERATIONS
(956) S CALIFORNIA 137-6 E Jones. Alter for store rooms in basement.
Owner.....Towne Realty Co., 166 San Francisco.
Architect ...None.
Day's work. COST, $1200

ADDITIONS
(957) NO. 1715 ELLIS. Add bath and rebuild porch, etc.
Owner.....Mrs. Minnie E. Paulsen, Premises.
Architect ...None
Contractor..Petterson & Persson, 62 Post, San Francisco.
COST, $800

FRAME APARTMENTS
(958) S SACRAMENTO 141-9 E Laguna. Three-story and basement frame (12) apartments.
Owner.....George H. Roundey, 995 Market, San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $30,000

ALTERATIONS
(959) NO. 402 GREEN. Alter flats.
Owner.....G. Derenzo Premises.
Architect ...None.
Contractor..F. C. Amoroso, 1246 Kearny, San Francisco.
COST, $1000

FRAME DWELLING
(960) SW COWDEN & HARKNESS. One-story and basement frame dwlg.
Owner.....John Mertens, 445 Lombard, San Francisco.
Architect ...None.
Day's work. COST, $400

ADDITION
(961) NO. 1864 NINTH AVE. Add to dwelling.
Owner.....E. Merrill, Premises.
Archntect ...None.
Contractor..M. H. Lobbaro, 1833 Buchanan, San Francisco.
COST, $1000

FRAME DWELLING
(962) W NAPLES 75 S Seville. O and one-half-story and baseme frame dwelling.
Owner.....Oliver and Jennie C. Eva Geneva and London, S.
Architect ...Oliver Evans.
Contractor..Oliver Evans.
COST, $18

ADDITION
(963) SE CALIFORNIA & FRANKLI Add sleeping porch.
Owner.....Dr. Emmet Rixford, Pre
Architect ...L. P. Rixford, 519 Sharc Bldg., San Francisco.
Contractor..Mark Campbell & Son, 17 Turk, San Francisco.
COST, $4

FRAME GARAGE
(964) NW COLLEGE AND MISSIO One-story frame garage.
Owner.....Frank Lemey, 3842 Missio San Francisco.
Architect ...None.
Day's work. COST, $40

ALTERATIONS
(965) NO. 906 RHODE ISLAND. Rais and add to dwelling.
Owner.....Peter Morcunko, Premises
Architect ...None.
Contractor..John Rodometkin, 87 Rhode Island, S. F.
COST, $50

FRAME STABLE
(966) NO. 230 ROSE (rear). One-story frame stable.
Owner.....S. Avanzino, Premises.
Architect ...None.
Contractor..A. Ardito, 1931 Denver Ave., San Francisco.
COST, $400

ALTERATIONS
(967) NO. 827 UNION. New roof and add to flats.
Owner.....M. Mignacco, Premises.
Architect ...None.
Contractor..B. Pagano, 1618 Stockton, San Francisco.
COST, $450

UNDERPIN, ETC.
(968) S FAIRFAX 50 E Lane. Concrete foundation and underpin.
Owner.....E. Munder, 1253 Fairfax, San Francisco.
Architect ...None.
Day's work. COST, $400

LOADING PLATFORM
(969) NO. 1550 BRYANT. Reinforced concrete loading platform.
Owner.....Rainier Brewing Co., Prem
Engineer ...Victor H. Poss, 57 Post, San Francisco.
Contractor..Sound Constr. & Eng. Co., 716 Hearst Bldg., S. F.
COST, $1900

FRAME DWELLING
(970) MERRITT TERRACE Blk 2977 Lot No. 16. Two-story and basement frame dwelling.
Owner.....Chas. F. Fallmer, 1796 Eddy, San Francisco.
Architect ...None.
Days work. COST, $3000

ALTERATIONS
(971) NO. 1148 GREEN. Cement plaster exterior, new cornice, etc.
Owner.....Miss Mary Scully, Prem.
Architect ...John H. Powers, 460 Montgomery, San Francisco.

Contractor..Wm. L. Levy, 1456 Willard San Francisco.
COST, $500

ALTERATIONS
(972) NO. 2116 ANZA. Raise and add to cottage.
Owner.....Mrs. and Mr. Byrnes, Prem.
Architect ...None.
Contractor..Frank J. Lucas, 52 Ney, San Francisco.
COST, $1000

FRAME RESIDENCE
(975) E THIRTY-FOURTH AVE 100 N Irving. Two-story and basement frame residence.
Owner.....J. W. Gillogley, 745 San Jose Ave., San Francisco.
Architect ...None.
Day's work. COST, $2950

ALTERATIONS
(974) S EIGHTEENTH 54-10 E Oakwood E 27xS 101. All work for alterations and additions to two-story frame building.
Owner.....Elizabeth Kelly.
Architect ...None.
Contractor..Segurson Bros., 308 Guerrero, San Francisco.
Filed Apr. 4, '16. Dated Apr. 3, '16.
Frame up $300
Plastering finished 300
Completed and accepted..... 360
Usual 35 days..... 400
TOTAL COST, $1360
Bond, $680. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days from recording. Forfeit, $2. Plans and specifications filed.

FRAME APARTMENTS
(975) INT N TWENTY-FOURTH AND SE San Jose Ave E 60 N 80 SE 50-9⅝ SW 72-6¾. All work except beds, gas fixtures, shades, tile wainscoting in kitchens and tile wainscotting for three-story frame apartments.
Owner.....A. W. Congdon, 76 2nd, San Francisco.
Architect ...Rousseau & Rousseau, Inc. 110 Sutter, San Francisco.
Contractor..Joel Johnson, 110 Jessie, San Francisco.
Filed Apr. 5, '16. Dated Mar. 20, '16.
Frame up $1500
Brown coated 4500
Completed and accepted..... 4500
Usual 35 days..... 4500
TOTAL COST, $18,000
Bond, $9000. Sureties, Jno. E. Beck and Elmer Carlson. Limit, 100 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(976) S GREEN 105-6 W Montgomery W 32xS 137-6. All work except foundations, cement floors, shades, lighting fixtures and finish hardware for two-story and basement frame flats.
Owner.....D. Ferrari, 875 Vallejo, San Francisco.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..D. Fossati, 2340 Lane, San Francisco.
Filed Apr. 5, '16. Dated Apr. 3, '16.
Frame up and roof on.....$900
Brown coated 900
Cocpleted and accepted..... 900
Usual 35 days..... 925
TOTAL COST, $3625
Bond, none. Limit, 90 days after April 6. Forfeit, $5. Plans and specifications filed.

HARDWARE
(977) N CALIFORNIA 103 W Spruce N 127-8¼xW 62-6. Hardware for residence.
Owner.....Margaret E. Sudden, 62 Jordan Ave., S. F.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Joost Bros., 1274 Market, San Francisco.
Filed Apr. 4, '16. Dated Mar. 30, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $687
Bond, limit, forfeit, plans and specifications, none.

CLASS "C" STORES
(978) W MISSION 184-2½ N 24th N 25xW 125. All work except plumbing, etc., for two-story and basement Class "C" store building.
Owner.....Frank and Louis Cames, 2786 Mission, S. F.
Architect ...Fabre & Bearwald, 625 Market, San Francisco.
Contractor..P. F. Reilly, 255 Berry, San Francisco.
Filed Apr. 5, '16. Dated Apr. 3, '16.
Concrete poured on all outside walls $3342
Rough plaster on..... 3342
Completed and accepted..... 3342
Usual 35 days..... 3343
TOTAL COST, $13,369
Bond, none. Limit, 100 days. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS
(979) N McALLISTER 137-6 E Steiner E 40xN 137-6. All work for three-story and basement frame apartments
Owner.....Leopold and Bertha Marks 757 McAllister, S. F.
Architect ...C. O. Clausen, Hearst Bldg San Francisco.
Contractor..O. K. Holt, 3877 26th, S. F.
Filed Apr. 5, '16. Dated Apr. 5, '16.
Frame up $4081
Brown coated 4081
Standing finish on..... 4081
Completed and accepted..... 4081
Usual 35 days..... 5500
TOTAL COST, $21,824
Bond, $11,000. Sureties, E. N. Lacey and Edwin I. Peterson. Limit, 90 days from removal of old building. Forfeit, $5. Plans and specifications filed.

FRAME FLATS
(980) SE MINNA 125 NE 8th NE 20x SE 69. All work for two-story and basement frame flats.
Owner.....Sophie Baur, 1285 Howard, San Francisco.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..Albert Cook, 675 Minna, San Francisco.
Filed Apr. 5, '16. Dated Apr. 5 '16.
Frame up and roof boards on.$906.25
Brown coated 906.25
Completed and accepted..... 906.25
Usual 35 days..... 906.25
TOTAL COST, $$3625.00
Bond, none. Limit, 70 days from recording. Forfeit, none. Plans and specifications filed.

CONCRETE WORK
(981) SE MINNA 225 NE Fourth NE 25xSE 70. Plain and reinforced concrete work for one-story and basement reinforced concrete store bldg.
Owner.....Daniel O'Neill.
Architect ...J. E. Krafft & Sons, Phelan Bldg., San Francisco.
Contractor..Victor Stanquist.
Filed Apr. 6, '16. Dated Apr. 3, '16.
Concrete of basement walls ready for laying 1st floor joists.....$400
All concrete of reinforced concrete frame poured..... 300
Completed and accepted..... 350
36 days after..... 400
TOTAL COST, $1450
Bond, $775. Sureties, Chas. A. Carillon and John Cassaretto. Limit, June 15, 1916. Forfeit, $5. Plans and specifications filed.

EXCAVATION, ETC.
(982) N BUSH 68-9 W Grant Ave W 68-9xN 137-6. Excavation and foundation work for substation.
Owner.....City Electric Co.
General Supt..E. W. Beardsley.
Contractor..G. F. W. Jensen, 320 Market, San Francisco.
Filed Apr. 6, '16. Dated Apr. 4, '16.
On 10th of each month..... 75%
Usual 35 days, balance..... 25%
TOTAL COST, $9734
Bond, $5000. Surety, Massachusetts Bonding & Insurance Co. Limit, June 6, 1916. Forfeit, $10. Plans and specifications filed.

FRAME RESIDENCE
(983) NE ANZA AND ELEVENTH Ave N 100xE 32-6. All work for two story and basement frame residence.
Owner.....A. A. Lohree, Spear and Folsom, San Francisco.
Architect ...Alfred H. Jacobs, 110 Sutter, San Francisco.
Contractor..Wm. Linden, 110 Jessie, San Francisco.
Filed Apr. 6, '16. Dated Apr. 6, '16.
Interior partitions set and roof boarding on $1494.50
1st coat plaster on outside and inside 1494.50
Completed 1494.50
Usual 35 days..... 1494.50
TOTAL COST, $5978.00
Bond, $5978. Surety, Guardian Casualty and Guaranty Co. Limit, Aug. 15, 1916. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(984) E PLUTO 249-3 S Masonic Ave. Two-story and basement frame dwlg.
Owner.....Paramount Bldg. Co., 45 Kearny, San Francisco.
Architect ...August G. Headman, New Call Bldg., S. F.
Day's work. COST, $3000

FRAME DWELLING
(985) E PLUTO 224-3 S Masonic Ave. Two-story and basement frame dwlg.
Owner.....Paramount Bldg. Co., 45 Kearny, San Francisco.
Architect ...August G. Headman, New Call Bldg., S. F.
Day's work. COST, $3000

FRAME DWELLING
(986) E PLUTO 199-3 S Masonic Ave. Two-story and basement frame dwlg.
Owner.....Paramount Bldg. Co., 45 Kearny, San Francisco.
Architect ...August G. Headman, New Call Bldg., S. F.
Day's work. COST, $3000

FRAME DWELLING
(987) E PLUTO 174-3 S Masonic Ave. Two-story and basement frame dwlg.
Owner.....Paramount Bldg. Co., 45 Kearny, San Francisco.

Architect ...August G. Headman, New Call Bldg., S. F.
Day's work. COST, $3000

FRAME DWELLING
(988) E PLUTO 274-3 S Masonic Ave. Two-story and basement frame dwlg.
Owner.....Paramount Bldg. Co., 45 Kearny, San Francisco.
Architect ...August G. Headman, New Call Bldg., S. F.
Day's work. COST, $3000

REPAIRS
(989) NO. 2202 CALIFORNIA. Repair fire damage.
Owner.....Mrs. Helen Detrick, 1909 Jackson, San Francisco.
Architect ...None.
Contractor..Chas. E. Urfer, 555 Pine, San Francisco.
COST, $900

FRAME FLATS
(990) SW VERMONT AND TWENTY-third. Two-story and basement frame (2) flats.
Owner.....Chas. A. Meinert, 23rd and Vermont, San Francisco.
Architect ...None.
Contractor..Jas. J. Sullivan, 337 Clipper San Francisco.
COST, $3850

FRAME DWELLING
(991) NW HARPER 90-11 NE Laidley. One-story and basement frame dwlg.
Owner.....Jos. J. Handy, 76 Harper, San Francisco.
Architect ...None.
Contractor..Karl S. Koller, 2659 22nd, San Francisco.
COST, $800

ALTERATIONS
(992) W RAIL ROAD AVE 30 N Palou Alter grocery store.
Owner.....F. Rufer, 1008 Rail Road Ave., San Francisco.
Architect ...None.
Contractor..T. L. Sharman, 1440 Shafter, San Francisco.
COST, $600

FRAME FLATS
(993) NW CORTLAND AND ELSIE. Two-story and basement frame (2) flats.
Owner.....John P. Connolly, Premises.
Architect ...None.
Contractor..Wm. M. Reedy, 157 Bonte, San Francisco.
COST, $3350

ELECTRIC SIGN
(994) NO. 983 MARKET. Electric sign
Owner.....Lesser Bros., Premises.
Architect ...None.
Contractor..Federal Sign System Elec., 1172 Bryant, San Francisco
COST, $400

REPAIRS
(995) S FOLSOM 225 W Eighth. General repairs for stable.
Owner.....Jas. Hunter et al, 948 Market, San Francisco.
Architect ...J. Chas. Flugger, 782 2nd Ave., San Francisco.
Day's work. COST, $1100

ADDITION
(996) NO. 400 SEVENTH. Addition to machine shop.
Owner.....Norris K. Davis, Premises.
Architect ...None.
Contractor..James & Sargent, 171 Langton, San Francisco.
COST, $1047

FRAME RESIDENCE
(997) S GARFIELD 25 W Arch. Two-story frame residence.
Owner.....J. Kemp.
Architect ...None.
Day's work. COST, $600

ALTERATIONS
(998) NO. 260 TENTH. Minor alterations to flats.
Owner.....Owen O'Malley, 600 Charter Oak, San Francisco.
Architect ...None.
Contractor..M. Brueck, 600 Charter Oak, San Francisco.
COST, $500

FRAME DWELLING
(999) NO. 774 ARKANSAS. One-story and basement frame dwelling.
Owner.....Leonardo Barbato, 780 Kansas, San Francisco.
Architect ...V. Marsavie, 872 Wisconsin, San Francisco.
Contractor..G. Mosetti, 536 6th, S. F.
COST, $1000

ALTERATIONS
(1000) N BISMARK 150 W San Jose Ave. Minor alterations to dwelling.
Owner.....Engel Thorsen.
Architect ...None.
Contractor..Axel Larson, 282 Dolores, San Francisco.
COST, $400

FRAME DWELLING
(1001) W WISCONSIN 50 S 20th. One story and basement frame dwelling.
Owner.....Phillip Testa, 551 Wisconsin, San Francisco.
Architect ...None.
Contractor..G. Orri, 2033 22nd, S. F.
COST, $1300

REPAIRS
(1002) SE MISSION AND SIXTEENTH Repair fire damage.
Owner.....J. Burns, 1264 21st Ave., San Francisco.
Architect ...None.
Contractor..C. Raetz, 2536 Bryant, S. F.
COST, $1500

FRAME RESIDENCE
(1003) S SANTA YNEZ 45 E Delano. One-story and basement frame residence.
Owner.....Edw. F. Helms, 4303 California, San Francisco.
Architect ...Edw. F. Helms.
Day's work. COST, $2500

FRAME FLATS
(1004) E THIRTEENTH AVE 50 S Balboa E 95xS 25. All work except heating for two-story frame flats.
Owner.....Caspar and Louella Ellingen, 753 44th Ave., S. F.
Architect ...None.
Contractor..J. Johnson, 150 17th Ave., San Francisco.
Filed Apr. 7, '16. Dated Apr. 6, '16.
Rough frame up.....$1500
Brown coated 1500
Completed and accepted..... 1500
Usual 35 days..... 1500
TOTAL COST, $6000
Bond, $3000. Surety Guardian Casualty & Guaranty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BRICK WORK, ETC.
(1005) NW NORTH POINT & LARKIN W 412-6 (412.6)xN 275. Brick and terra cotta work for three buildings; three-story "C" garage with living quarters; one-story Class "A" power house and 3-story Class "A" office building.
Owner.....D. Ghirardelli Co., Inc., 941 North Point, San Francisco.
Architect ...William Mooser, Nevada Bank Bldg., S. F.
Contractor..H. H. Larsen & Bro., 62 Post, San Francisco.
Filed Apr. 7, '16. Dated Apr. 3, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $19,200
Bond, $9600. Surety, Fidelity & Deposit Co. of Maryland. Limit, none. Forfeit, $50. Plans and specifications filed.

(1006) CAST IRON AND STEEL WORK on above.
Contractor..Central Iron Works, 651 Florida, San Francisco.
Filed Apr. 7, '16. Dated Apr. 3, '16.
Payments same as above.....
TOTAL COST, $14,900
Bond, $7500. Sureties, Wm. H. Sullivan and Anselmo F. Schuler. Limit, 60 days after notification. Forfeit, $50. Plans and specifications filed.

(1007) EXCAVATING, REINFORCED concrete and artificial stone work on above.
Contractor..H. L. Petersen, 62 Post, San Francisco.
Filed Apr. 7, '16. Dated Apr. 3, '16.
Payments same as above.....
TOTAL COST, $15,100
Bond, $7550. Surety, Fidelity & Deposit Co. of Maryland. Limit, none. Forfeit, $50. Plans and specifications filed.

FRAME DWELLING
(1008) NE CASTENADA AVE AND Lopez Ave, being Lots 12 and 13 Blk 16, Forest Hill Addition. All work for two-story and attic frame dwelling.
Owner.....S. Erlanger.
Architect ...Maybeck & White, Lick Bldg., San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed Apr. 7, '16. Dated Apr. 4, '16.
Monthly payments of 75% not to exceed $6996
Any balance between total of $6996 on completion and acceptance
Usual 35 days..... 2332
TOTAL COST, $9328
Bond, $4664. Surety, U. S. Fidelity Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

NOTICE OF NON-RESPONSIBILITY.

SAN FRANCISCO COUNTY.

Apr. 3, 1916—NW SAN BRUNO AVE Milliken and Sunnyside Av (Tobin) N 552 W 134 S 452 E 25 S 100 E 109 Lot 37 Ptn Lot 10, Visitacion Valley Hd Ass'n. Adelaide E Burnett, Admx Estate Henry Blanken, dec'd as to improvements on leased property .....

Apr. 7, 1916—W CASTRO 89 S 25th S 25xW 80. Mrs Mary T Mullin, Mrs Josephine E Jones and Mrs Margt. Kinsey as to improvements on leased property .....

r. 4, 1916—E KEARNY 112 N Market — 42 E 70 SE 42-3 W 76-7½. Lily O Nestor as to improvements on leased property.....

COMPLETION NOTICES

San Francisco

pril 1, 1916—S WASHINGTON 97 W Battery 40-6x122. R Jordan Estate Co to Wade & Carlson..Mar. 30, 1916
pril 1, 1916—W EIGHTEENTH AVE 175 S Geary S 50x120. Frederick F Heine to whom it may concern.....
.....April 1, 1916
pril 1, 1916—LOT 5 BLK 11, Crocker Amazon Tract. Emil Nelson to whom it may concern...Mar. 31, 1916
pril 1, 1916—E TWELFTH AVE 75 N Cabrillo N 25xE 95. Alton R Lapham to whom it may concern..
.....April 1, 1916
pr. 3, 1916—NE MEDA AVE 125 NW Otsego 25x70; NE Meda Ave 150 NW Otsego 25x70. Jas Arnott & Son to whom it may concern....Apr. 1, 1916
pr. 5, 1916—E FORTY-SIXTH AVE 275 S Balboa S 25xE 120. Bertha J Clausen to O K Holt....Mar. 30, 1916
pr. 5, 1916—E ARGUELLO BLVD 44 S Carl S 25 E 100 N 5 W 25 — 20 W 75. Elinora T Christiansen to whom it may concern..April 5, 1916
pr. 6, 1916—W HARRIET 200 N Folsom: Nos. 62 and 64 Harriett. Morris Farber to whom it may concern.....April 6, 1916
pr. 6, 1916—E HAROLD AVE 400 S Bruce Ave S 25xE 112-6. Walker E and Mary E Gray to Weber & Shaw
.....Mar. 28, 1916
pr. 6, 1916—E ½ LOT 20 BLK 11, College Hd Ass'n. Joseph Cuneo to whom it may concern..April 6, 1916
pr. 6, 1916—W GUERRERO 56-6 N 20th N 46-8 W 105 S 26-8 E 0-2 S 20 E 104-10. Isaac, Samuel and Abraham Friedman to whom it may concern.....April 5, 1916
pr. 6, 1916—SE BRAZIL AND EDINburgh E 100xS 25. John Schroeder to Robert Trost.....Apr. 5, 1916
pr. 7, 1916—W FORTY-FIFTH AVE 120 S Geary S 108xW 120. Sutro Heights Land Co to whom it may concern.....April 5, 1916
pr. 7, 1916—NW GEARY AND 25TH Ave 30-11x100. John H Green to whom it may concern....Apr. 6, 1916
pr. 7, 1916— E EIGHTEENTH AVE 250 S Anza S 25xE 120. Charles J H Schultz to whom it may concern
.....April 7, 1916

LIENS FILED

San Francisco

April 1, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. John Cassaretto vs A Chazel and G Cavaglieri..$65.70
Apr. 3, 1916—N GRAFTON AVE 50 W Granada W 25xN 100. G Palma and B Ghiotto (as Palma & Ghiotto) vs Susanna Henry and J C Grant.$179.81
Apr. 3, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. J B Bourdieu vs A Chazel & C J Mills.....$196
Apr. 4, 1916—N GRAFTON AVE 50 W Granada W 25xN 100. John Lanigan vs Susanna Henry and J C Grant.....$65
Apr. 4, 1916—N PAGE 165-7½ W Central Ave N 137-6xW 44-4½. Atlas Mortar Co vs Jas P Fletcher and Carrie Green $103.60
Apr. 4, 1916—NW EIGHTEENTH & Texaa 50x75. S Franza vs H W Streckenbach and G Cavaglieri..$65
Apr. 5, 1916—N BUSH 137-6 W Buchanan W 34-4½xN 137-6. Charles D Brooke vs Gertrude C Limas.....
.....$23.60
Apr. 5, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. P E Depaoli vs A Chazel and G Cavaglieri.....$67
Apr. 5, 1916—W TWELFTH AVE 29 N Cabrillo N 112 W 120 S 56 E 30 S 56 E 90; N Cabrillo 90 W 12th Ave N 85xW 27-6. G Johnson, $35; Victor Nordstrom, $95; Simon Lindbeck, $16.25; Carl Larson, $125 vs William and Margaretha Koenig and Carl Johnson .....
Apr. 6, 1916—E EIGHTH AVE 200 S Cabrillo S 25xE 120. A Sockolof vs Henry and Hattie Tillman and Otto Carson .....|..$79
Apr. 6, 1916—N CALIFORNIA 110 E Broderick E 80xN 132-6. J H Kruse vs Sockolov Sons Co.....$186.04
Apr. 6, 1916—N GOLDEN GATE AVE 137-6 W Buchanan W 30-9xN 137-6. J H Kruse vs Congregation Ansha Sfard and Roumanian & Sockolov Sons Co.....$330.38
April 1, 1916—N GRAFTON AVE 50 W Granada: Lot 3 Blk 11, Lakeview Tract. E D Conolley and H W Bade (as Spring Valley Lumber Yard) vs Susanne Henry and J C Grant $356.76
Apr. 7, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. W P Fuller & Co vs G Cavaglieri and August Chazel..$40

Building Contracts Awarded

ALAMEDA COUNTY.

787	Fox	Smith	1600
789	Alexander	Alexander	1600
790	Byrne	Byrne	500
791	West Coast Soap	Owner	1000
792	Johnson	Johnson	2500
793	Parro	Okd Concrete	800
797	Short	Short	6000
798	Woodard	Woodard	2000
799	Pfrang	Pfrang	2500
800	Crawford	Pfrang	2250
801	Gault	Larson	3500
802	O'Connor	Elrod	3500
803	Myelle	Eilertsen	3250
804	Buratovich	Owner	2562
805	Griswold	Nelson	1750
806	Layson	Hall	6000
807	S P Co	Harris	2647
809	Kilvish	Kilvish	400
810	Feigenberg	Jones	400
811	Bendit	Maganni	400
812	Silva	Silva	400
814	Frank	Frank	400
815	Blood	Walker	7000
816	Carr	Burkes	2900
817	Owen	Martin	2000
818	Jeffreys	Smith	1450
819	Tuttle	Tuttle	1800
820	Gambatz	Peppin	2000
821	Trimlett	Trimlett	1600
824	Pulcifer	Shrader	610
825	Max Realty	Williams	500
832	Foreman	Corbett	900
839	Elsey	Self	400
840	Cook	Harris	425
841	Scudden	Leiter	400
842	Redwood	Redwood	750
843	Oakland	Thornally	8547
844	Scherf	Eliel	1850
845	Kellogg	Kellogg	1500
846	E & A	E & A	2000
847	Same	Same	2000
848	Same	Same	2000
849	Same	Same	2000
850	Same	Same	2000
851	Hall	Yoshida	3000
852	Anderson	Knight	205
853	Fenton	Jones	4772
854	Strang	Strang	1500
855	Cederborg	Anderson	1800

DWELLING
(787) E SEVENTH AVE 100 S E-11th, Oakland. One-story 5-room dwlg.
Owner.....W. Fox, 1629 11th Ave., Oakland.
Architect ...None.
Contractor..C. M. Smith, 3406 35th Ave., Oakland.
COST, $1600

DWELLING
(789) W SEVENTY-SIXTH AVE 200 S E-14th, Oakland. One-story 5-room dwelling.
Owner.....J. D. G. Alexander, 531 24th Oakland.
Architect ...None.
Day's work. COST, $1600

ADDITION
(790) NO. 2648 FIFTY-FIFTH AVE., Oakland. Addition.
Owner.....W. F. Byrne, 9633 "D," Oakland.
Architect ...None.
Day's work. COST, $500

ADDITION
(791) SW TWENTY-SIXTH & POPLAR Oakland. Two-story addition to factory.
Owner.....West Coast Soap Co., Prem
Architect ...None.
Day's work. COST, $1000

FRAME DWELLING
(792) S GREENBANK AVE — W Grand, Piedmont. Two-story seven-room frame dwelling.
Owner.....Louis Johnson, 223 Greenbank Ave., Piedmont.
Architect ...None.
Day's work. COST, $2500

BRICK SHED
(793) NE FIFTH AND CLAY, Oakland One-story brick shed.
Owner.....J. Parro, Premises.
Architect . .None.
Contractor..Oakland Concrete & Terrazzo Co., 2227 Market St., Oakland.
COST, $800

APARTMENTS
(797) W BRUSH 50 S 11th, Oakland. Two-story 16-room apartments.
Owner.....Louise H. Short.
Architect ...J. C. & M. L. Newsom, 1748 Broadway, Oakland.
Day's work. COST, $6000

DWELLING
(798) W SEVENTY-THIRD AVE 90 N Halliday Ave., Oakland. One-story 5-room dwelling.
Owner.....L. L. Woodard, 1530 Grove Oakland
Architect ...None.
Day's work. COST, $2000

DWELLING
(799) W GLENDORA 800 N Greenwood Ave., Oakland. One-story 5-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(800) E MONTGOMERY 40 S Mather, Oakland. Alter one-story dwelling into two-story flats.
Owner.....Mrs. A. Crawford.
Architect ...None.
Contractor..C. J. Pfrang, 5487 Claremont Ave., Oakland.
COST, $2250

(801) W ADELINE 75 N 60th, Oakland One-story brick and frame stores.
Owner.....H. M. Gault, 6027 Grove, Oakland.

Architect ...None.
Contractor..Aug. Larson, 720 36th, Oakland. COST, $3500

DWELLING
(802) BELGRAVE PLACE opp. Napa, Oakland. Two-story 7-room dwelling
Owner.....J. C. O'Connor, Syndicate Bldg., Oaklandd.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Contractor..O'Connor & Elrod, Syndicate Bldg., Oakland.
COST, $5500

FLATS
(803) E SAN PABLO AVE 30 S 29th, Oakland. Two-story 8-room flats.
Owner.....H. C. Myelle, 628 Montgomery, San Francisco.
Architect ...George L. Streshly, 315 Lowell, San Francisco.
Contractor..E. R. Ellertsen, 3000 26th, San Francisco.
COST, $3250

DWELLING
(804) E SIXTY-FOURTH AVE 100 S Beck, Oakland. One and one-half-story 7-room dwelling.
Owner.....Thomas Buratovich, 2636 64th Ave., Oakland.
Architect ...None.
Day's work. COST, $2562

DWELLING
(805) E FIFTY-SEVENTH AVE 160 S Bond, Oakland. One-story 5-room dwelling.
Owner.....Caroline Griswold, 2338 57th Ave., Oakland.
Architect ...None.
Contractor..O. E. Nelson, 1215 Monterey Ave., Oakland.
COST, $1750

DWELLING
(806) ARDEN STATION nr Newark center line County Road 526; 1343.60 NE County Road 2045 NE 4269.40 NW 1888 SW 4499 SE 2505.50 SE 1328.10 NE 1679. 70, Washington Tp. All work for moving and setting up Japanese dwelling from Panama-Pacific International Exposition.
Owner.....Clara H. Layson.
Architect ...None.
Contractor..Thayer D. Hall.
Filed Apr. 3, '16. Dated Apr. 1, '16.
Delivered at Arden Station.....$2000
One-half erected 2000
Completed and accepted..... 500
Usual 35 days..... 1500
TOTAL COST, $6000
Bond, $2000. Sureties, Edith M Hall and Charles L. Clark. Limit, 20 days after April 4. Forfeit, none. Plans and specifications, none.

REPAIRS
(807) OAKLAND PIER TERMINAL Bldgs., Oakland. All work for repairs to roofs of Oakland Terminal Pier buildings.
Owner.....Southern Pacific Co., 13th and Broadway, Oakland.
Architect ...None.
Contractor..B. S. Harris.
Filed Apr. 3, '16. Dated Mar. 15, '16.
15 days after completed and accepted $1725
Usual 35 days..... 922
TOTAL COST, $2647
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
(809) E SEVENTY-THIRD AVE 250 S E-14th, Oakland. One-story three-room dwelling.
Owner.....L. Kibish, 1149 73rd Ave., Oakland.
Architect ...None.
Day's work. COST, $400

ELEVATOR
(810) NO. 522 SEVENTH, Oakland. Elevator.
Owner.....Feigenberg Bros., Prem.
Architect ...None.
Contractor..V. Jones, 225 Broadway, Oakland.
COST, $400

ADDITION
(811) NO. 3612 WEST, Oakland. Addition.
Owner.....Mrs. M. Bendit, Premises.
Architect ...None.
Contractor..J. F. Maganni, 603 36th, Oakland. COST, $400

REPAIRS
(812) NO. 2725 FOOTHILL BOULEVARD, Oakland. Repairs.
Owner.....Mrs. Silva, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(814) NO. 9327 E-FOURTEENTH, Oakland. Alterations.
Owner.....C. G. Frank, 9401 E-14th, Oakland.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(815) N FOURTEENTH 100 W Clay, Oakland. Finishing three-story Class "A" reinforced concrete store and loft building.
Owner.....Nellie E. Blood et al.
Architect ...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $7000

DWELLING
(816) SE EVANS AVE 280 SW Everett Ave SW 40xSE 110, Oakland. All work for two-story 8-room dwelling.
Owner.....Frank M. Carr, 1106 Broadway, Oakland.
Architect ...A. W. Smith, 1010 Broadway, Oakland.
Contractor..C. E. Burks, 4125 Randolph Ave., Oakland.
Filed Apr. 5, '16. Dated Apr. 1, '16.
Frame up, siding on and roof ready for felt ..... ¼
Exterior brown coated and interior ready for finish coat..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $3900
Bond, none. Limit, 90 days. Forfeit, $1. Plans and specifications filed.

DWELLING
(817) NE WALNUT AVE & LILAC, Oakland. One-story 5-room dwlg.
Owner.....Mary A. Owen, 3909 Linwood Ave., Oakland.
Architect ...None.
Contractor..J. H. Martin, 3479 39th Ave Oakland. COST, $2000

DWELLING
(818) W PERALTA AVE 100 S School, Oakland. One-story 4-room dwlg.
Owner.....E. C. Jeffreys, 1704 Broadway, Oakland.
Architect ...None.
Contractor..O. G. Smith, Syndicate Bldg., Oakland.
COST, $14

DWELLING
(819) N E-THIRTY-FIRST 135 E 2 Ave., Oakland. One and one-half story 5-room dwelling
Owner.....I. S. Tuttle, 2222 E-31 Oakland.
Architect ...None.
Day's work. COST, $18

DWELLING
(820) N LAVERNE AVE 105 E 55 Ave., Oakland. One-story 5-room dwelling.
Owner.....Carl Gambatz, S. F.
Architect ...None.
Contractor..J. B. Peppin, San Leandro
COST, $20

DWELLING
(821) S BROOKDALE AVE 360 W 38 Ave., Oakland. One-story 5-room dwelling.
Owner.....R. Trimlett, 3630 Brookdale Ave., Oakland.
Architect ...None.
Day's work. COST, $16

FIRE REPAIRS
(824) NO. 4220 MONTGOMERY, Oakland. Fire repairs.
Owner.....H. W. Pulcifer, Union Svg Bank Bldg., Oakland.
Architect ...None.
Contractor..J. F. Shrader, 520 16th Oakland.
COST, $61

REPAIRS
(825) NO. 416 SIXTH, Oakland. Fire repairs.
Owner.....Max Realty Co., Premises
Architect ...None.
Contractor..L. Williams, 1919 San Pablo Ave., Oakland.
COST, $50

ALTERATIONS
(832) TWELFTH AND WASHINGTON Durst Estate Bldg., Oakland. All work except glazing and metal bars for alterations to entrance and mezzanine floor of two-story Class "C" store and loft building.
Owner.....Foreman & Clark by — Foreman, 484 12th, Okd.
Architect ...Richahdson & Burrell, Albany Blk., Oakland.
Contractor..Corbett & Bayliss, 1110 Franklin, Oakland.
Filed Apr. 5, '16. Dated Apr. 5, '16.
Accepted $200
Within 6 months.....Balance
TOTAL COST, $900
Bond, none. Limit, 18 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(839) NO. 1012 WASHINGTON, Oakland. Alterations.
Owner.....Elsey Estate, Premises.
Architect ...None.
Contractor..L. B. Self, 356 24th, Okd.
COST, $400

GARAGE
(840) E DESMOND 250 N Clifton, Oakland. Garage.
Owner.....Frank J. Cook, 5238 Desmond, Oakland.
Architect ...None.

ntractor..D. F. Harris, 1303 Carrison, Berkeley.
COST, $425

TERATIONS
1) NO. 4160 TERRACE, Oakland. lterations.
ner.....Dora M. Scudder, Premises.
chitect...None.
ntractor..E. L. Leiter & Sons, Dalziel Bldg., Oakland.
COST, $400

DITION
2) FIFTY-SEVENTH & LOWELL, Oakland. Addition.
ner.....Redwood Mfg. Co., Prem.
chitect...None.
y's work. COST, $750

RAME ANNEX
43) VAN BUREN, SANTA CLARA & Perry, Oakland. Two-story frame annex to Lakeview School.
vner.....City of Oakland.
chitect...Julia Morgan, Merchants' Exchange Bldg., S. F.
ntractor..W. G. Thornalley, 565 16th, Oakland. COST, $8547

WELLING
14) NE SEVENTEENTH & CAMPbell, Oakland. One-story 5-room dwelling.
wner.....M. Scherf, — Alcatraz Ave., Oakland.
rchitect...None.
ontractor..A. F. Eliel & Co., 1433 Franklin, Oakland.
COST, $1850

WELLING
845) W POMONA 680 S Main, Albany. One-story 5-room dwelling.
wner.....I. A. Kellogg, 3404 Champion, Oakland.
rchitect...None.
Day's work. COST, $1500

WELLING
846) S MARIN 67½ W Pomona, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., 218 Syndicate Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

WELLING
847) S MARIN 30 W Pomona, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., 218 Syndicate Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
848) SW MARIN AND POMONA, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., 218 Syndicate Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
849) W POMONA 125 S Marin, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., 218 Syndicate Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
850) W POMONA 215 S Marin, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., 218 Syndicate Bldg., Oakland.
Architect...None.
Day's work. COST, $2000

REMOVE BUILDING
851) ARDEN, CAL. All work to tear down Japanese dwelling at Panama-Pacific International Exposition Grounds and load on cars and erect at Arden.
Owner.....Thayer D. Hall (Agent for Clara H. Layson).
Architect...None.
Contractor..J. K. Yoshida.
Filed Apr. 6, '16. Dated Mar. 28, '16.
Dwelling arrives at Arden.....$ 500
Walls up 500
Roof on 500
Completed 500
36 days after..... 1000
TOTAL COST, $3000
Bond, none. Limit, 100 days. Forfeit, plans and specifications, none.

DWELLING
852) E BEAUMONT 200 S Park Boulevard being Lot 21 Blk "E," 4th Ave. Terrace, Oakland. All work for one story 5-room dwelling.
Owner.....Carl E. Anderson, Oakland
Architect...Chester H. Miller, 1st Svgs Bank Bldg., Oakland.
Contractor..Harry C. Knight, 1514 Havenscourt Blvd., Okd.
Filed Apr. 6, '16. Dated Mar. 27, '16.
1st floor laid.....$68
Brown coated 68
Accepted 69
Owner pays all bills for labor and material .....
TOTAL COST, $205
Bond, none. Limit, 65 days after laying mud sills. Forfeit, none. Plans and specifications filed.

FRAME ADDITION
853) S FORTY-FIRST 100 W Howe, Oakland. One-story and 2-story frame additions to creamery.
Owner.....Fenton Creamery Co., 4099 Howe, Oakland.
Architect...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..Jones & McGovern, 2218 Los Angeles Ave., Bkly.
Filed Apr. 7, '16. Dated Apr. 3, '16.
Frame up $1193.00
Plastered 1193.00
Completed and accepted..... 1193.00
Usual 35 days..... 1192.50
TOTAL COST, $4771.50
Bond, $2385 Surety, Casualty Co. of America. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
(854) W TWENTY-THIRD AVE 80 S E-29th, Oakland. One-story 5-room dwelling.
Owner.....E. H. Strang, 3741 Elston Ave., Oakland.
Architect...None.
Day's work. COST, $1500

DWELLING
(855) S E-THIRTY-SEVENTH 300 W 14th Ave., Oakland. One and one-half-story 5-room dwelling.
Owner.....A. Cederborg, 1033 Poplar, Oakland.
Architect...None.
Contractor..Cederborg & Anderson, 1033 Poplar, Oakland.
COST, $1800

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
786	Nunes	Nunes	2500
788	Johnson	Johnson	3000
794	Heath	Fleisch	1000
795	Scott	Scott	1800
796	Havens	King	1000
808	Spencer	Rankin	450
813	Davis	Davis	600
822	Peet	Turner	14936
823	Bradley	Patrick	2200
824	Gilsenan	Dildine	3000
835	Swanson	Hellen	1600
836	Hutsell	Texdahl	500
837	Portel	Tullock	2000
838	Bondrow	Kerns	2800

DWELLING
(786) W LEWISTON 180 N Alcatraz, Berkeley. Two-story six-room dwlg.
Owner.....Geo. W. Nunes, 5130 Dover, Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(788) N INDIAN ROCK AVE 100 E San Luis, Berkeley. One-story 7-room dwelling.
Owner.....Maria A. Johnson, 2115 Parker, Berkeley.
Architect...None.
Contractor..Albert A. Johnson, 2115 Parker, Berkeley.
COST, $3000

ALTERATIONS
(794) S ALLSTON 200 fram Shattuck Ave., Berkeley. Alterations.
Owner. ....— Heath.
Architect...None.
Contractor..Chas. Fleisch, 2032 Bancroft Way, Berkeley.
COST, $1000

DWELLING
(795) N ASHBY AVE 290 W Sacramento, Berkeley. One-story 5-room dwelling.
Owner.....Alice M. Scott, 685 23rd, Oakland.
Architect...None.
Contractor..G. A. Scott, 685 23rd, Okd.
COST, $1800

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White Brothers

Fifth & Brannan Sts. **San Francirco**

ALTERATIONS
(796) SE SHATTUCK & KITTRIDGE, Berkeley. Alterations.
Owner.....J. W. Havens, 2631 Benvenue Ave., Berkeley.
Architect ...None.
Contractor..Geo. F. King, Morrill Apts. Berkeley.
COST, $1000

DWELLING
(808) S VIRGINIA 45 E Chestnut, Berkeley. One-story 3-room dwelling.
Owner.....B. F. Spencer, Berkeley.
Architect ...None.
Contractor..S. G. Rankin, 5659 Shafter Ave., Oakland.
COST, $450

ADDITION
(813) S FRANCISCO 125 W Curtis, Berkeley. Addition.
Owner.....Chas. F. Davis, 1158 Francisco, Berkeley.
Architect ...None.
Day's work. COST, $600

AUTOMATIC SPRINKLER
(822) S CARLTON 240.36 W Seventh W 969.52 SW 408.52 NE 969.50 NW 409.31, Berkeley. Automatic sprinkler system and equipment for three buildings.
Owner.....Peet Bros. Mfg Co. by P. J. Walker Co., Agents, Monadnock Bldg., S. F.
Architect ...None.
Contractor..The Turner Co., 278 Natoma, San Francisco.
Filed Apr. 5, '16. Dated Mar. 29, '16.
Monthly payments of..... 75%
36 days after..... 25%
TOTAL COST, $14,936
Bond, $7468. Surety, Massachusetts Bonding & Insurance Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(833) NW MABEL AND OREGON 36x100, Berkeley. All work for one-story frame dwelling.
Owner.....George Bradley, Berkeley.
Architect ...None.
Contractor..O. M. and H. G. Patrick, 2001 Hopkins, Berkeley.
Filed Apr. 5, '16. Dated Mar. 30, '16.
Frame up and chimneys completed ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2200
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

DWELLING
(834) E MAGNOLIA 107 N Webster, Berkeley. Two-story 7-room dwlg.
Owner.....Mrs. E. Gilsenan, 2837 Webster, Berkeley.
Architect ...None.
Contractor..V. Dildine, 6243 College Ave., Berkeley.
COST, $3000

DWELLING
(835) S PARKER 280 W Sacramento, Berkeley. One-story 5-room dwlg.
Owner.....Hulda Swanson, 1130 Monterey Ave., Berkeley.
Architect ...None.
Contractor..A. Hellen, 1130 Monterey Ave., Berkeley.
COST, $1600

ALTERATIONS
(836) SW EUNICE AN EUCLID, Berkeley. Alterations.
Owner.....—Hutsell, Mendocino Co.
Architect ...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..Chris Texdahl, 3035 Harper Berkelye.
COST, $500

DWELLING
(837) NO. 2425 McKINLEY, Berkeley. One-story 5-room dwelling.
Owner.....E. A. C. Portel, 2117 San Jose Ave., Alameda.
Architect ...None.
Contractor..H. Tullock, 2445 24th Ave., Oakland.
COST, $2000

DWELLING
(838) ARCH 240 N Vine, Berkeley. Two-story 6-room dwelling.
Owner.....Chas. Bondrow, 1438 Arch, Berkeley.
Architect ...None.
Contractor..Nat T. Kerns, 2219 Russell, Berkeley. COST, $2800

Building Contracts Awarded

Oakland.

823	Weisel	Rockingham	1950
826	O"Connor	Harrison	400
827	Hine	Richards	400
828	Browne	Delanoy	500
829	Lamy	Lamy	800
830	Strang	Strang	2750
831	Noble	Noble	2000

DWELLING
(823) W VERSAILLES AVE 20 S Encinal Ave., Alameda. One-story 5-room dwelling.
Owner.....H. Weisel, 2843 San Jose Ave., Alameda.
Architect ...None.
Contractor..J. H. Rockingham, 2306 San Jose Ave., Alameda.
COST, $1950

REPAIRS
(826) NO. 2329 BLANDING AVE, Alameda. Repairs.
Owner.....O'Connor & Harrison, 311 California, S. F.
Architect ...None.
Day's work. COST, $400

ADDITION
(827) NO. 1310 PACIFIC AVE., Alameda. Addition.
Owner.....Lottie Hine, Premises.
Architect ...None.
Contractor..L. Richards, 1614 Bay St., Alameda.
COST, $100

ADDITION
(828) NO. 922 GRAND, Alameda. Addition.
Owner.....W. J. Browne, 1809 San Jose Ave., Alameda.
Architect ...None.
Contractor..Delanoy & Randlett, 2303 Central Ave., Alameda.
Cost, $500

ALTERATIONS
(829) PALM BEACH, Alameda. Alterations.
Owner.....G. J. Lamy, Premises.
Architect ...None.
Day's work. COST, $800

DWELLING
(830) E BAYO VISTA AVE — S Mont Vista, Alameda. Two-story six-roor dwelling.
Owner.....F. N. Strang, 805 Pacifi Ave., Alameda.
Architect ...None.
Day's work. COST, $275

DWELLING
(831) NO. 2524 SAN JOSE AVE., Alameda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Centra Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Apr. 3, 1916—NE FIFTH AND CLAY 59x75, Okd. Eugent A de St. Germain adm Estate Theophile Adelaide de St. Germain as to improvements on leased property.....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Mar. 31, 1916—LOT 53, 4th Ave Court, Okd. Alice J Harvey to Alex C Wieben.....Mar. 28, 1916
Mar. 31, 1916—SW MAIN on Lots 2, 3 and 4 Stevens Tract, Centerville. Miss A Lernhart, Sonke Hansen, F T Dustenberry and Jno G Mattos, Jr to Robert Irvine.....Mar. 24, 1916
Apr. 3, 1916—LOTS 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and Ptn Lots 4, 5, 6, 7, 25, 26, 27, 28, 29, 30, 31 and 32, R. J. McMullen's Sbdvn Blk 576, Oakland. Pacific Coast Shredded Wheat Co to Alphons Custodis Chimney Co.....Mar. 30, 1916
Apr. 3, 1916—LOT 25 Piedmont Cable Tract, Piedmont. R E Stnbbe to whom it may concern....Apr. 3, 1916
Apr. 4, 1916—S 10 LOT 14 and N 30 Lot 13 Blk 8 Map Northbrae, Okd Tp. C E Sinclair to whom it may concern.....April 4, 1916
Apr. 4, 1916—LOT 7 BLK "H," Northbrae Terrace, Bkly. C E Sinclair to whom it may concern.Apr. 4, 1916
Apr. 4, 1916—PLOT 15 C. Meek-Sota Tract, Eden Tp. Anna Nelson to Juel Christensen.....Mar. 29, 1916
Apr. 4, 1916—N ALBANY TERRACE 61 E Neilson N 90xE 31, Albany. Emma Westwood by Charles Westwood to whom it may concern.....April 3, 1916
Apr. 4, 1916—NW DAIRY AVE AND Cherry Road, Newark. Trustees of the Newark School District to M H Lewis.....Mar. 22, 1916
Apr. 5, 1916—LOT 6 BLK "B" Lincoln Park Tract, Piedmont. Laura E Karriger to Gordon J Wiser.....April 4, 1916
Apr. 5, 1916—SE LAKE SHORE AVE 50 SE Walla Vista Ave SE 110xSW 50, Okd. R H Banning and Jas E Stewart to whom it may concern.....April 4, 1916
Apr. 5, 1916—W BELGRAVE PLACE 157-6 N Napa, N 29-2xW 100, Okd. R H Banning and Jas E Stewart to whom it may concern....Apr. 4, 1916
Apr. 5, 1916—SE NINTY-SIXTH AVE 75 SW Cherry on Ptn SW 35 Lot 13 Blk 14, Warner Tract, Okd. George Ferguson to E E Wells....Apr. 5 1916

Apr. 7, 1916—LOT 7 BLK "D" Map Scenic Boulevard Knoll, Okd. H S Patton to whom it may concern .....April 6, 1916

Apr. 7, 1916—E SAN SEBASTIAN 100 N Elsinore, Okd. C A Sullivan to A J Bellefontaine.....Apr. 6, 1916

Apr. 7, 1916—NO. 1514 UNIVERSITY Ave, being S University Ave bet California and Sacramento, Bkly. Walter E Schott to William Patton .....April 1, 1916

Apr. 7, 1916—LOTS 1 & 2 Broughers Tract Chabot Road, Okd. Elwood Mead to C M Blabon.....Mar. 29, 1916

Ap. 7, 1916—LOT 7 BLK "B" Map Whitney Tract, Bkly. F Herbert Frenzel to Jacob Kollmer.Mar. 29, '16

Apr. 7, 1916—S KEITH AVE 350 W Euclid Ave being Ptn Lot 8 Blk 2 North Cragmont Tract, Oakland Tp. Dora L Martin to C A Martin..... .....April 7, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Mar. 31, 1916—SE JAYNE AVE AND E Perkins SE 130 SW 150 NW 77.31 on curve to left 72.77, Okd. P Ryan vs Frank Moore and John I Thomas $107.45

ALAMEDA COUNTY BUILDING OPERATIONS.

The building operations for March, 1916, for Oakland, Berkeley and Alameda, show splendid totals. Detailed information follows:

OAKLAND BUILDING SUMMARY.

For the Month of March, 1916.

Classification of Buildings.	No. Permits	Costs
1-story dwellings.....	93	$164,186
1½-story dwellings.....	9	21,100
2-story dwellings.....	19	72,369
1-st log cabin dwlg.....	1	10,000
2-story flats.....	1	7,100
2-story flats and stores..	2	5,000
3-story apartments.....	3	30,000
4-story brick apartments	1	90,000
1-story stores.....	4	4,450
2-story warehouse.....	1	1,000
2-st frm & brick wrehse.	1	8,887
Concrete swimming tank	1	19,526
Reinforced concrete automobile factory.....	1	200,000
8-story warehouse.....	1	60,000
2-story brick and concrete market	1	18,750
1-story brick garage.....	1	4,000
Steel work and foundation for 8-story Class "A" office and theatre.	1	110,000
Brick shed.....	1	800
Hot houses.....	2	500
Temporary building.....	1	2,500
Garages, sheds & stables	59	10,212
Work shops, tanks, frames and barns.....	9	5,585
Electric signs.....	15	3,150
Additions	33	26,325
Alterations & repairs....	84	35,240
Total	345	$910,680

SUMMARY

New construction.....	261	$875,440
Alterations & repairs....	84	35,240
Total	345	$910,680

March, 1915, Total.....	318	$500,373
Increase	27	410,307

Total for January, February and March, 1916, 821 permits; cost, $1,497,-424.

Total for January, February and March, 1916, 735 permits; cost, $1,121,-166.

Increase over 1915, 86 permits; cost, $376,258.

Berkeley Building Totals.

March, 1916.....	$160,000
March, 1915.....	140,950
Gain over March, 1915.....	$ 20,050

Alameda Building Totals.

March, 1915.....	$ 48,313
March, 1916.....	47,323

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

FRAME COTTAGE AND GARAGE
W SEVENTEENTH near San Fernando, San Jose. All work for one-story frame cottage and garage.
Owner.....L. Henning.
Architect ...Chas. S. McKenzie, Bank of San Jose Bldg., San Jose.
Contractor..P. T. Jorgensen, 113 W-Santa Clara St., San Jose.
Filed Apr. 5, '16. Dated Mar. 28, '16.
Frame up $842.50
1st coat plaster on..... 842.50
Job completed 842.50
Usual 35 days..... 842.50
TOTAL COST, $3370.00
Bond, $1700. Sureties, Otto E. Schuabel and Chas. W. Brown. Limit, 90 days after filing. Forfeit, none. Plans and specifications filed.

FRAME & STUCCO RESIDENCE
LOT 15 BLK 80 Naglee Park Residence Tract, near San Jose. All work for one-story frame and stucco residence
Owner.....Raymond B. Leland, 151 S-First St., San Jose.
Architect ...Andrew P. Hill Jr., Porter Bldg., San Jose.
Contractor..C. F. Keesling, 347 Coe Ave., San Jose.
Filed Apr. 5, '16. Dated Apr. 3, '16.
Frame up $858.75
Brown coat plaster on..... 858.75
Job completed 858.75
Usual 35 days..... 858.75
TOTAL COST, $3435.00
Bond, $1718. Sureties, R. G. Mitchell and Edwin E. Keesling. Limit, 70 working days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
N FRUITVALE AVE., San Jose. All work for one and one-half-story 8-room frame dwelling.
Owner.....A. Di Fiore, Fruitvale Ave. W of S. P. Tracks, R. F. D. 6 Box 211, San Jose.
Architect ...None.
Contractor..L. J. and V. F. Van Dalsem and L. E. Eddy, 171 N 18th St., San Jose.
Filed Apr. 4, '16. Dated Mar. 29, '16.
Frame up $650
Brown coat plaster on..... 650
House completed 650
Usual 35 days..... 650
TOTAL COST, $2600
Bond, $1300. Surety, American Surety Co. Limit, 90 days after April 15, 1916. Forfeit, none. Plans and specifications filed.

NURSES' QUARTERS
NEAR PALO ALTO. Heating for Nurses' quarters and girls' housekeeping place.
Owner.....Elise A. Drexler, Kohl Bldg., San Francisco.
Architect ...Houghton Sawyer, Shreve Bldg., San Francisco.
Contractor..Peterson-James Co., 710 Larkin, San Francisco.
Filed Mar. 21, '16. Dated Mar. 7, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1694.78
Bond, $850. Surety, Guardian Casualty & Guaranty Co. Limit, none. Forfeit, $5 per day. Plans and specifications filed.

NEAR PALO ALTO. All work for nurses' quarters and girls' housekeeping building.
Owner.....Elise A. Drexler, Kohl Bldg., San Francisco.
Architect ...Houghton Sawyer, Shreve Bldg., San Francisco.
Contractor..Stockholm & Allyn, Monadnock Bldg., S. F.
Filed Mar. 31, '16. Dated Jan. 4, '16.
On 1st day of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $16,177
Bond, $16,177. Surety, Guardian Casualty and Guaranty Co. Limit, 150 days. Forfeit, $5 per day. Plans and specifications filed.

FRAME AND BRICK BUILDING
W-SANTA CLARA ST., bet. San Teresa and Pleasant, San Jose. All work for one-story frame and brick building.
Owner.....Edith K. Dorrance and Ethel K. Farrington.
Architect ...F. D. Wolfe, 1st National Bank Bldg., San Jose.
Contractor..W. J. Moore.
Filed Apr. 1, '16. Dated Mar. 25, '16.
Foundation completed and brick work one-half story high....$1745.75
Roof completed 1745.75
Whole job completed..... 1745.75
Usual 35 days..... 1745.75
TOTAL COST, $6983.00
Bond, $3491. Sureties, James McKagney and F. H. Figel. Limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS.

SAN MATEO COUNTY.

REINFORCED CONCRETE THEATRE
BROADWAY ST., near Washington St., Redwood City. All work for reinforced concrete theatre and store building.
Owner.....Lydia Dugan, Belmont, California.
Architect ...Will H. Toepke, 46 Kearny, San Francisco.
Contractor..L. A. Rose, Monadnock Bldg., San Francisco.
Filed Mar. 31, '16. Dated Mar. 27, '16.
Walls up to 1st girder.....$2620
Walls poured and roofed..... 2620
Inside lathing finished..... 2620
When accepted 2619
Usual 35 days..... 3193
TOTAL COST, $13,972
Bond, $7000. Sureties, Bernard Tormey and Regina Rose. Limit, 90 days. Forfeit, $10 per day. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Apr. 1, 1916—NO. 289 W-SANTA Clara San Jose. Fred and Philip E Jung to W R Latta..Mar. 31, 1916
Apr. 5, 1916—LOT 8 BLK 47, F M Greenwood's re-location and subdivision of Blk 47 to the City of Palo Alto. Jno Dudfield to whom it may concern.....Apr. 5, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
Apr. 5, 1916—SBDVNS 74 AND 75 of Clarke Ranch, Mayfield. Andrew Peterson vs Spokane-Stanford Land Co $262.61

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Mar. 31, 1916—PTN BLK 8 Dimond Tract, Visitacion Valley. J W Wright & Co to whom it may concern.....March 21, 1916

LIENS FILED.

SAN MATEO COUNTY.

RECORDED AMOUNT
Mar. 31, 1916—LOT 27 BLK 9 Sub 2 of Burlingame Park, Burlingame. Loop-Wisnom Lumber Co, $382.28; Hemmer & Hower, $70 vs William Schinkel and J B Woolfrey.....
Mar. 31, 1916—POLHEMUS TRACT near Menlo Park. Anderson Bros Planing Mill & Mfg Co vs Rose E and James G Sharp and Curry & Curry $855.06

BUILDING CONTRACTS.

MARIN COUNTY.

DWELLING
SAUSALITO, Marin Co. All work for two-story and basement dwelling.
Owner.....H. W. Davis, Sausalito.
Architect ...H. W. Davis, Sausalito.
Contractor..N. Christiansen, Oakland.
Filed Mar. 31, '16. Dated Mar. 24, '16.
Frame up $390
When plastered 390
When completed 390
Usual 35 days..... 390
TOTAL COST, $1566.00
Bond, $1500. Sureties, F. M. Dreisbach and Thomas Jensen. Limit, 60 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Apr. 1, 1916—SITUATED IN SAUSALITO. Henry Kruse to Peter Hamilton.....March 23, 1916
Apr. 7, 1916—FOREST KNOLLS, Marin Co. J C Thompson to Oscar Young.....April 5, 1916
Apr. 7, 1916—FOREST KNOLLS TCT, Marin Co. J C Thompson to Frank B Sullivan..... Apr. 5, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

BAKERY AND RESIDENCE
LOT 17 BLK 77, Fresno. All work for bakery and residence.
Owner.....K. Potigian.
Architect ...None.
Contractor..Avak Avakian.
COST, $2120

CHURCH BUILDING
LOTS 12 TO 16 BLK 340, Fresno. All work for church building.
Owner.....First Church of Christ Scientist, 2027 Merced St., Fresno.
Architect ...Robt. B. Hotchkin, Rowell Bldg., Fresno.
Contractor..W. D. Trewhitt and H. W. Shields, 435 Rowell Bldg., Fresno.
Filed Apr. 3, '16. Dated Mar. 28, '16.
Monthly installments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $38,000
Bond, $19,000. Surety, Maryland Casualty Co. Limit, Oct. 1, 1916. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

FRESNO COUNTY.

RECORDED ACCEPTED
Apr. 6, 1916—H AND KERN STS., Fresno. Paul J T Mayer to whom it may concern.....Apr. 5, 1916
Mar. 30, 1916—LOTS 1 TO 5 BLK 84, Fresno. H Graff & Co to A A Cowan & Sons.....Mar. 30, 1916
Mar. 30, 1916—LOT 31 North Elmhurst, Fresno. F E Brown to C J Turner and A M Chitty..Mar. 29, 1916
Mar. 31, 1916—LOT 17 BLK 1, Alta Vista Tract. R F W Anderson to

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
Apr. 5, 1916—CALIFORNIA & ANNA Sts., Fresno. Charles D Marsh, $37.50; J R Paden, $122 vs People's Ice Co .....

BUILDING CONTRACTS

SACRAMENTO COUNTY.

CLASS "C" LODGE BUILDING
LOT 4 L, M, 27th and 28th Sts., Sacramento. Steel work and cast iron bases for three-story and basement Class "C" lodge building.
Owner.....Scottish Rite Cathedral Association of Sacramento.
Architect ...None.
Contractor..Central Iron Works, 631 Florida St., Sacramento.
Filed Apr. 1, '16. Dated Mar. 28, '16.
COST, $9000

DWELLING
NO. 2510 T ST., Sacramento. One-story dwelling.
Owner.....Mrs. J. P. Collins, Miller Ave., Sacramento.
Architect ...None.
Contractor..Corum & White, 2523 1st Ave., Sacramento.
COST, $3250

DWELLING
NO. 921 THIRTY-FIRST ST., Sacramento. One-story dwelling.
Owner.....W. D. McKay, 3029 E St., Sacramento.
Architect ...None.
Day's work. COST, $2400

GARAGE
NO. 2201 M ST., Sacramento. Private garage.
Owner.....C. F. Dillman, D. O. Mills Bank Blg., Sacramento.
Architect ...None.
Contractor..W. F. Feagan, 2202 3rd Ave., Sacramento.
COST, $630

ALTERATIONS
NO. 719 J ST., Sacramento. Remodel store front in brick building.
Owner.....H. H. Dunster.
Architect ...None.
Contractor..Siller Bros., 1614 13th St., Sacramento.
COST, $975

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Apr. 4, 1916—LOT 26, Lockport on E bank of Sacramento River Ptn of farm known as Geo W Locke & Son Noah Adams Lumber Co vs Hoy Lee and Geo W Locke & Son....$488

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Apr. 4, 1916—LOT 16 of Lockport on E bank of Sacramento River and being Ptn of farm known as Geo W Locke & Son Mound Ranch. Geo W Locks & Son as to improvements on leased property.....

ARCHITECTS' CERTIFICATE.

SACRAMENTO COUNTY.

Apr. 6, 1916—E. L. and Julius E. Krafft have filed their certificates of architecture in Sacramento County.

PROTEST AGAINST PROPOSED RICHMOND BOULEVARD.

RICHMOND, Cal.—City Attorney D. J. Hall has been instructed by the City Council to draft a resolution protesting the construction of a $100,000 scenic boulevard 30 miles in length from Mt. Diablo to the city of Oakland which misses the Richmond city limits by some twenty miles.

The boulevard's construction was proposed by the Burgess Development company and according to engineers in their employ was to cost the residents in the assessment district seventy-five per cent and the county twenty-five per cent. The money from the county to come from the general fund with Richmond as the principal payer.

METALLIC MAGNESIUM.

Metallic magnesium, the lightest metal known, will be produced as a commercial commodity by a factory at Niagara Falls. It is said to have many qualities superior to aluminum. The output of the factory has been contracted for by the French government until the end of the war, the material to be made use of in the manufacture of aeroplane parts.

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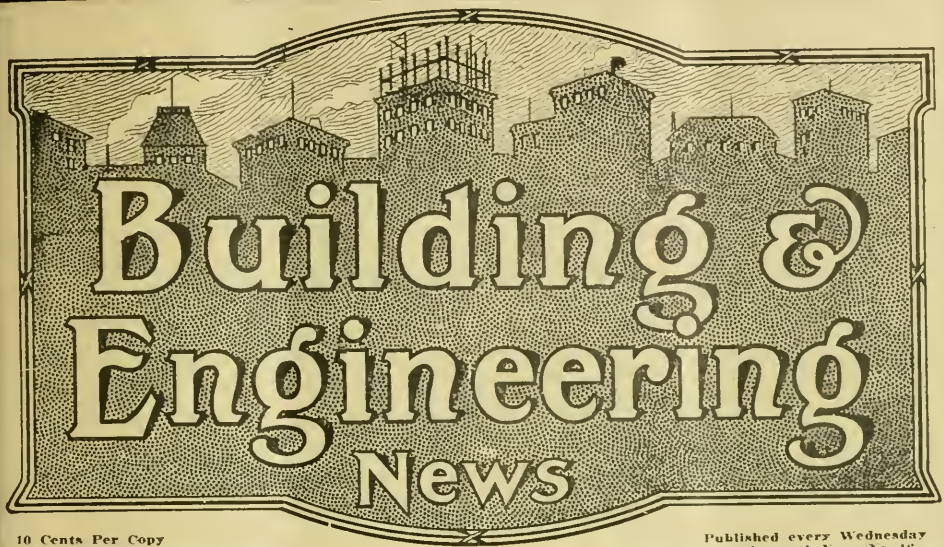

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March Building Totals.

Building operations throughout the country continue unusually active. The figures given below have been compiled by the "American Contractor" of Chicago, The California Development Board and the "Builder" and show a total for March, 1916, of $84,160,262 against $72,505,547 for the same month last year. Of the 120 cities given, 65 show a gain in the comparative statement, which follows:

Cities	Mar., 1916 Cost.	Mar., 1915 Cost.
Akron	$ 524,715	$ 437,605
Alameda	48,313	47,323
Albany	199,090	342,855
Allentown	100,310	127,780
Altoona	21,999	68,528
Atlanta	458,401	267,417
Bakersfield	12,225	18,685
Baltimore	1,305,111	882,701
Bayonne	42,440	39,747
Berkeley	160,000	140,950
Birmingham	188,426	154,555
Binghamton	179,939	134,878
Boston	3,967,000	4,719,000
Brockton	44,285	186,008
Buffalo	899,000	830,000
Canton	529,200	189,250
Chattanooga	184,015	40,865
Chicago	11,477,100	7,403,750
Cedar Rapids	95,000	152,000
Cincinnati	918,500	1,356,124
Cleveland	1,838,465	4,022,035
Colorado	27,617	22,700
Columbus	868,935	519,200
Dallas	452,891	147,690
Davenport	96,084	73,865
Dayton	356,240	112,465
Denver	386,390	181,130
Des Moines	400,141	119,365
Detroit	3,677,785	2,839,490
Duluth	237,595	159,125
East Orange	60,018	86,732
East St. Louis	30,292	80,955
Elizabeth	118,723	96,502
Erie	218,799	296,966
Evansville	139,490	402,327
Fort Wayne	115,125	254,290
Fort Worth	202,992	125,930
Fresno	59,015	191,697
Grand Rapids	617,020	260,429
Harrisburg	158,668	152,750
Hartford	590,120	706,237
Haverhill	25,700	87,250
Hoboken	6,036	47,450
Holyoke	118,950	24,675
Huntington	68,975	390,800
Indianapolis	906,268	889,349
Jacksonville	66,100	259,500
Kansas City, Kan	55,460	165,285
Kansas City, Mo.	1,226,619	848,595
Lawrence	300,405	288,880
Lincoln	153,040	97,450
Long Beach	132,185	225,312
Los Angeles	1,416,535	1,124,356
Louisville	576,730	518,100
Manchester	105,605	83,080
Memphis	306,060	345,785
Milwaukee	690,798	942,921
Montclair	51,702	106,828
Montgomery	47,849	11,765
Nashville	352,884	190,570
New Bedford	495,625	587,775
New Haven	520,560	825,470
New Orleans	248,936	194,385
New York	18,039,878	14,083,815
Manhattan	8,580,139	4,965,380
Bronx	2,285,938	2,268,112
Brooklyn	4,250,128	4,299,969
Queens	2,717,144	1,907,632
Richmond	206,229	242,722
Newark	783,790	643,392
Niagara Falls	309,062	38,450
Norfolk	1,276,139	180,694
Oakland	910,680	500,373
Omaha	346,805	332,860
Pasadena	175,132	79,373
Passaic	94,106	288,360
Paterson	107,268	76,973
Peoria	151,170	159,175
Philadelphia	4,590,730	5,388,265
Pittsburgh	1,767,612	1,006,997
Portland, Me.	110,525	161,750
Portland, Ore.	420,560	503,755
Pueblo	40,454	8,360
Quincy	87,695	185,402
Reading	48,925	164,350
Richmond	593,720	284,826
Richmond, Cal.	49,458	30,466
Rochester	596,243	1,000,000
Sacramento	109,497	148,725
Saginaw	10,940	81,215
Salt Lake City	314,550	209,385
San Antonio	199,470	95,500
San Diego	203,312	94,685
San Francisco	1,979,955	2,043,534
San Jose	53,635	97,971
Santa Rosa	6,975	10,661
Savannah	57,300	132,700
Schenectady	61,860	81,336
Scranton	40,490	102,124
Seattle	735,785	689,675
Shreveport	62,570	47,479
Sioux City	552,680	167,675
South Bend	12,529	43,547
Spokane	246,059	102,660
Springfield, Ill.	670,785	88,920
Springfield, Mass.	535,968	570,558
St. Joseph	214,303	50,903
St. Louis	1,761,781	1,268,878
St. Paul	1,064,152	822,624
Stockton	88,325	140,814
Superior	18,255	67,235
Syracuse	177,715	520,533
Tacoma	168,122	192,150
Tampa	116,245	116,387
Terre Haute	48,235	57,535
Toledo	1,022,195	763,258
Topeka	51,440	73,500
Trenton	235,504	192,868
Troy	35,375	68,106
Utica	37,925	94,855
Washington	1,579,301	714,826
Wichita	145,950	27,900
Wilkes-Barre	173,255	257,752
Worcester	780,130	353,360
Youngstown	176,313	148,295
Total	$84,160,262	$72,505,547

OPPORTUNITY FOR CONTRACTOR.

The Sonoma County Development Association reports an opening for a plant at Sebastopol to manufacture berry juice from berries too ripe for shipment. Good inducements to the right party.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base. Class C construction, $30,000. Architects, Heiman & Schwartz, Nevada Bank Bldg., S. F. Owner, Mrs. Oscar H. Curtaz. Location, west Leavenworth north of Bush, covering an area of 32½ by 76 feet. Will contain seventeen apartments of two and three rooms. Interior finish pine and elm panels. Some hardwood floors. Steam heat and hot water system. Oil burning furnace. Wall Beds Bath rooms tile with composition floors. Marble and tile wainscot. Exterior faced with cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment houses, 2, 5 story and base. Class C construction. Cost not stated. Architect, C. A. Meussdorffer, Humboldt Bank Bldg., S. F. Owner, S. N. Wood. Location, Jackson near Franklin, each covering an area of 60 by 105 feet. Arranged for eight apartments in each building, suites consisting of six and seven rooms. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning furnace and hot water system. Bath rooms tile. Marble and tile wainscot. Exteriors faced with pressed brick and terra cotta. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $10,000. Architect, none. Owner, V. N. Strang, 1521 9th street, Alameda. Location, east Oak south of 10th street. Will contain eighteen rooms arranged in two and three room apartments. Interior finish pine and elm panels with some hardwood floors. Wall beds and private baths. Steam heat and a hot water supply. Bath rooms tile with composition floors. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 2 story and base, frame, $9,000. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, John Williams. Location, College avenue near Woolsey. Will contain four suites of four rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile. Hot water supply and wall beds. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $6,000. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owner, Mr. Harrington. Location, 12th avenue and East 16th St. Will contain a number of two-room apartments with private bath and wall bed. Interior finish pine and white enamel. Hardwood floors. Hot water supply and gas steam radiators. Exterior covered with cement plaster and rustic. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 4 story and base, brick, $60,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Mr. McCullough, of Kidder & McCullough. Location, corner of Milvia and University. Will contain four stores on the ground floor and a total of 48 apartments three rooms each on the upper floors. Interior finish pine, elm and white enamel. Some hardwood floors. Steam heat, oil burning system, hot water supply and automatic elevator. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

SACRAMENTO, CAL. — Apartment house, 3 story and base. Class C construction. Cost not stated. Architect, Walter H. Parker, 12 Geary street, S. F. Owner, F. L. Atkinson. Location, 7th street, between I and J, covering and area of 100 by 72 feet. Will contain a number of two and three room apartments. Interior finish pine and white enamel. Some hardwood floors. Steam heat and hot water supply. Oil burning furnace. Bath rooms tile with composition floors. Hercules interlocking tile walls. Exterior faced with cement plaster. Plans complete and owner taking figures.

SAN FRANCISCO—Apartment house alteration, frame, $3,000. Architect, O. E. Evans, 2569 Mission street, S. F. Owner, Gustave Schnee, 80 Silver St., S. F. Location, northwest San Jose avenue and 26th street. Work will consist of rearranging the present two-story frame dwelling and adding one story. There will be a total of four apartments of three rooms. Work will include carpentry, mill work, plastering, painting, electric work and plumbing. Exterior will be covered with cement plaster. Plans are complete and work will be done by Day Labor.

Contracts Awarded

LONG BEACH, LOS ANGELES CO., CAL.—Apartment house, 3 story and base. Class C construction, $46,000. Architect, Frank H. Gentry, Union Oil Bldg., L. A. Owners, J. Wesley and Franklin Robinson. Contractor, Harry E. Martin, 625½ South Spring street, L. A. Contract price, $46,000.

BONDS

BAKERSFIELD, KERN CO., CAL.—An election will be held in Bakersfield shortly to vote on the proposition of issuing and selling bonds of $150,000 for the purchase of park sites.

RED BLUFF, TEHAMA CO., CAL.—The Red Bluff School District has voted bonds of $15,000 for school improvements. The proceeds of the sale will provide for fire escapes on the two grammar schools of this city, new floors and other improvements in the buildings, new roofs, and the purchase of half a block of ground, adjoining the Lincoln School, for playground purposes.

ALBANY, ALAMEDA CO., CAL.—The election held to vote bonds of $75,000 for a new school and repairs to the present structure, lost by two votes last week. It is probable that another election will be called.

VISALIA, TULARE CO., CAL.—Plans for a $100,000 school bond issue are being formulated by the Visalia school board. It is proposed to erect one grammar school and two primary buildings from the proceeds of the sale of the entire issue.

BOZEMAN, MONT.—Bonds of $235,000, of which $135,000 will be used in the construction of additional waterworks facilities and $100,000 for sewer installations, have been voted and plans will be rushed to completion so as to have work underway as soon as the bonds have been sold.

TEHACHAPI, KERN CO., CAL.—A bond issue for $25,000 for a high school building is being considered. Architect W. B. Wiseman of Bakersfield has submitted sketches of the proposed building, which are now being considered by the trustees. It is probable that a date for the election will be set shortly.

CALEXICO, IMPERIAL CO., CAL.—Arrangements for financing what is estimated as $125,000 worth of improvement work on the Volcano Lake levee, by the construction of a railroad on the top of that levee, have been announced to the Board of Directors of the Imperial Valley Irrigation Company in Calexico.

SANTA CRUZ, SANTA CRUZ CO., CAL.—The Supervisors have set May 17th as the date to decide the question of forming the Brookdale sanitary district. Residents in the Brookdale section petitioned the Supervisors that the district be formed, that assessments might be levied to construct the sewer system.

SANTA ANA, ORANGE CO., CAL.—April 18th is the date set to vote bonds of $40,000 for school improvements in the Santa Ana School District.

VALLEJO, SOLANO CO., CAL.—An election will be called shortly to vote bonds of $80,000 for the erection of a modern concrete primary school.

LODI, SAN JOAQUIN CO., CAL.—The proposition of voting bonds for a paving plant and the construction of a swimming tank carried at an election held recently.

WOODLAND, YOLO CO., CAL.—May 16th is the date set to vote on the question of issuing bonds for water, sewer and ice plant improvements.

REDDING, SHASTA CO., CAL.—By a vote of two to one, Redding decided in favor of constructing and operating its own lighting system.

MODESTO, STANISLAUS CO., CAL.—The $200,000 school bonds voted by the Modesto City High School District in March, have been ordered advertised for sale. The proceeds of the sale will be used in the erection of new schools and improving the present structures.

WHITTIER, LOS ANGELES CO., CAL.—The $111,000 bond issue held April 4th for a municipal water system was defeated.

SAN DIEGO, SAN DIEGO CO., CAL.—The proposed bond election for $2,201,000 to be held May 16, will include the following proposed improvements and construction work: (1) $500,000 repair and construction of roads, among which the principal items are $72,000 for the National City road via Bonita to Mountain Springs; $25,000, Descanso to Dehesa via Japatul, and $41,500, Julian to mouth of San Felipe Gorge via Banner Canyon; $40,600, Escondido to Del Mar and Wellers to coast; (2) $400,000 construction of bridges of which $15,000 will be expended for a bridge over San Diego River at Lakeside, Route No. 6, and $40,000 over the Santa Margarita River, coast road; (3) $75,000 road along the route of the State highway from Flynn Springs to Viejas Valley, and from a point near Descanso to the county line at Mountain Springs, a distance of 52.5 miles; (4) $380,000 for 38 miles of 15-foot concrete pavement inside incorporated cities, and $826,560 for 98.4 miles of 10-foot concrete pavement with 3-foot shoulders outside incorporated cities; and (5) $100,000 for the construction of two buildings at the county hospital.

ARMONA, KINGS CO., CAL.—The bonds for $283,000 voted upon recently for the purchase by the irrigation district of the interest of the Second Extension Water Sompany, carried. The interest consists of canals, pumping plant, a large acreage of water producing terriatory and for the purpose of providing a system of water for domestic use. Work on improving the system will begin at once.

EAST BAKERSFIELD, KERN CO., CAL.—City Engineer Robert B. Ray has submitted a report to W. G. Silber, representing the East Bakersfield wards, giving an estimate of the cost of a proposed water system for that city. The system proposed includes the construction of pumping plants with mains to the distributing system, and the construction of a storage reservoir. Estimated cost of a municipal plant and distributing mains is $170,000. A bond election has been asked.

TULARE, TULARE CO., CAL.—The City Attorney has been instructed to draw up the necessary papers for a bond election for a municipal auditorium building.

ALAMOGORDO, N. M.—Bonds in the sum of $300,000 for the purchase of public utilities carried at the recent election. Of this sum $275,000 is for the purchase of the water works and $25,000 for the electric plant.

BRIDGES, DAMS AND HARBOR WORK

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. Bids will be received on May 1st for furnishing plans and specifications for a reinforced concrete bridge of the arch type over the Calaveras River between the towns of San Andreas and North Branch, in Calaveras County. All plans and specifications must meet the requirements of the State Highway Commission. Profile maps of the bridge site can be procured upon application to the Clerk of the Board of Supervisors.

WOODLAND, YOLO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyors of Yolo and Solano Counties. Owners, Solano and Yolo Counties. Bids will shortly be advertised for on the construction of a large reinforced concrete bridge to be erected over the Putah Creek by the counties of Solano and Yolo. A contract was awarded to the Clinton Fireproofing Co. of San Francisco about two years ago for approximately $60,000. The contractors naturally refuse to carry out the work on these figures owing to the raise in materials, which they claim has been nearly one-third. Further mention will be made of the work when bids are called.

SAN JOSE, SANTA CLARA CO., CAL.—Bridges and road work. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. At the last meeting of the Board of County Supervisors the County Surveyor was directed to prepare plans and specifications for the following named roads and bridges: Bridge on Foot Hill avenue and McKean road in Road District No. 1, and for the improvement of San Martin road from the railroad to the Llagas Creek in Road District No. 1; and for the improvement of McLaughlin avenue in Road District No. 2; and for the improvement of Campbell avenue to 20 feet west of the Southern Pacific track in Road District No. 4; and surfacing the concrete of section "A" on the Alviso road improvement, and from 13th street and Berreyessa to the concrete road already completed; and for the improvement of Sierra, Morrill and Cropley avenue and Trimble road in Road District No. 3; also Lincoln avenue, from Minnesota avenue to Almaden road in Road District No. 4.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Bridges and culverts, concrete and steel. Cost not stated. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. At the last meeting of the County Supervisors the County Surveyor was directed to prepare plans and specifications and present same at the next meeting of the Board for the necessary new bridges and culverts needed in each of the Supervisorial Districts, under instructions from the Supervisors therein. Bids on this work will be called for on the completion of the plans. Further mention will be made of this work.

LOS ANGELES, CAL.—Bridge, steel and concrete. Cost not stated. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of Monday, May 1, 1916, for the construction of one 3-span standard 19-foot span wood trestle bridge, 20-foot roadway, over Ballona Creek on Mesa Drive extension, in accordance with plans and specifications on file in the office of the Board.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. Plans and specifications prepared by the County Surveyor for the construction of a bridge across the Arroyo Grande and Cienega road, were approved by the County Supervisors at their last session and bids were ordered advertised for. Bids close May 4th, 10 a. m. Plans and specifications together with full information may be had from the County Clerk or County Engineer at San Luis Obispo.

WILLOWS, GLENN CO., CAL.—Bridges, 2, reinforced concrete. Cost not stated. Engineer, County Surveyor Knock, Willows, and Consulting Engineers Leonard & Day, Rialto Bldg., S. F. Owners, Glenn County. Bids are now being taken for the construction of two reinforced concrete bridges to be erected in Glenn County. Plans were prepared by Engineers Leonard & Day, Rialto Bldg., S. F. One of the bridges will be known as the Salt Creek bridge and the other as the Farrar Creek bridge. Plans can be secured from the office of County Surveyor Bayard Knock at Willows.

MODESTO, STANISLAUS CO., CAL.—Bridge, reinforced concrete, $100,000. Engineer, County Surveyor Annear, Modesto. Consulting Engineers, Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. Plans prepared by County Engineer Annear for a new steel and concrete bridge over the Tuolumne River at Modesto were adopted at the last meeting of the County Supervisors. Bids for the construction of the bridge will be opened by the Supervisors at 2 o'clock, May 9th. Owing to the present price of steel, which has advanced from $32 to $70 a ton, it is expected that the bridge will cost somewhere in the neighborhood of $100,000.—The bridge will be 1250 feet in length, and will be of reinforced concrete. Plans may be had from the County Clerk at Modesto.

Contracts Awarded.

VENTURA, VENTURA CO., CAL.—Bridge, reinforced concrete, $22,110. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, W. M. Ledbetter, Pacific Electric Bldg., L. A. Contract price, $22,110.

VENTURA, VENTURA CO., CAL.—Bridge, reinforced concrete, $10,036. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, G. E. Preble, Santa Ana. Contract price, $10,036.

SAN FRANCISCO—Furnishing piles. Cost as follows. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Only two sets of figures were received by the State Board of Harbor Commissioners at their meeting on Thursday, April 13th, for furnishing piles on a three years' contract. McCormick Co., Fife Bldg., S. F., bid 15.9c, 19.5c and 21.5c per lineal foot for the first year and presented no other bid. Hammond Lumber Co., Newhall Bldg., S. F., 10c, 12.15c and 13c for the first year; 10c, 12.75c, and 13.5c for the second year, and 11c, 13c and 14c for the third year. The contract was awarded them on that basis.

COURT HOUSES.

BURBANK, LOS ANGELES CO., CAL.—City Hall, 2 story and base, brick. Cost not stated. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Will contain offices for the various city officials, library and quarters for the police and fire departments. Interior finish pine and hardwood. Maple floors. Central heating system. Fireproof vault. Special electric work. Exterior faced with

pressed brick. Plans complete and figures being taken. Bids will be opened on May 4th.

FACTORIES AND WAREHOUSES

OAKLAND, CAL.—Flour mill and warehouse, 4 and 2 story, mill construction, $400,000. Engineer, R. M. Henningsen, Security Bldg., Oakland. Owners, Albers Bros. Milling Co., 332 Pine street, S. F. Location, Key Route Fill. The milling plant will be four stories high and have a capacity of 1,000 bushels per day. A grain elevator with a capacity of 500,000 bushels will also be erected. The warehouse will cover an area of 170 by 350 feet. Heavy mill construction will be used throughout. Special machinery to be installed is estimated to cost $350,000. Plans are being completed and figures are now being taken for the piles and concrete foundation work. Other parts of the work will be figured shortly.

FIRE HOUSES AND JAILS

PATTERSON, STANISLAUS CO., CAL.—Jail, 1 story, concrete and brick. Cost not stated. Engineers, Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. Will cover an area of 46 by 22 feet and will contain a small court room besides the jail. Interior finish pine. Special cell work. Exterior faced with cement plaster. Plans complete and figures being taken. Bids close May 9th.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $3,750. Architect, none. Owner, John A. Dahlin, 115 Judah street, S. F. Location, west 7th avenue north of Judah. Will contain two flats of five rooms and bath. Interior finish pine, elm and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Basement garage. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, none. Owner, John V. Stiefel, 184 23rd avenue, S. F. Location, south Judah west of 5th avenue, covering an area of 25 by 68 feet. Will contain two flats of five and six rooms with bath and basement garage. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Furnace heat. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Flats, 2 story and base, frame, $4,500. Architects, Hutchinson & McLean, 470 13th street, Oakland. Owners, United Home Builders, 1527 Broadway. Location, southeast corner of Vincente and Miranda. Will contain five and six room flats. Interior finish pine and white enamel with some gum. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $4,000 each. Architect, none. Owners, Cuneo Bros., 152 Tiffany avenue, S. F. Location, south Sycamore east of San Carlos. Each building will contain two flats of five and six rooms each. Interior finish pine and redwood. Some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

GARAGES.

OAKLAND, CAL.—Garage, 1 story and base, brick, $20,000. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, Henry Abrahamson. Location, 29th and Broadway. Designed for a commercial garage. Concrete floor. Metal window sash and frames. Special gasoline storage tanks. Office finished in pine. Exterior faced with pressed brick. Plans being prepared.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular No. 146.

The following bids were received and awards made by the depot quartermaster, San Francisco, Cal., under office curcular No. 146, opened March 23: Bid 1, L. Feldmann & Co., 3022 21st street, San Francisco, Cal.

2. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.

3. Muir & Symon, 1015 Battery street, San Francisco, Cal.

4. John Rothschild & Co., Market and Spear streets, San Francisco, Cal.

5. Pacific Coast Paper Co., 545 Mission street, San Francisco, Cal.

6. Pacific Hardware & Steel Co., 7th and Townsend streets, San Francisco, Cal.

7. California Casket Co., 959 Mission street, San Francisco, Cal.

8. Pacific Trading Co., Blake Block, Oakland, Cal.

9. Marshall-Newell Supply Co., 142 Steuart street, San Francisco, Cal.

10. C. J. Hendry Co., 46 Clay street, San Francisco, Cal.

11. Moise-Klinkner Co., 1212 Market street, San Francisco, Cal.

12. Evansville Tool Co., 729 5th street N. W., Washington, D. C.

13. Zellerbach Paper Co., Battery and Jackson streets, San Francisco, Cal.

14. Snelling & Son, South Brooklyn, N. Y.

15. Pacific Fire Extinguisher Co., 507 Montgomery street, San Francisco, Cal.

16. Hayden-Corbett Chain Co., Columbus, Ohio.

17. Holbrook, Merrill & Stetson Co., 6th and Bloxumne streets, San Francisco, Cal.

18. Walter's Surgical Co., 393 Sutter street, San Francisco, Cal.

19. Gorham Fire Apparatus Co., 127 Mission street, San Francisco, Cal.

20. Johnson & Joseph Co., 34 Sacramento street, San Francisco, Cal.

21. Hooper & Jennings, 100 Howard street, San Francisco, Cal.

22. W. W. Montague & Co., 557 Market street, San Francisco, Cal.

23. Weeks-Howe-Emerson Co., 51 Market street, San Francisco, Cal.

24. Western Electric Co., 680 Folsom street, San Francisco, Cal.

25. Herbert F. Dugan, 1170 Sutter street, San Francisco, Cal.

26. Hatteroth's Surgical Co., 228 Powell street, San Francisco, Cal.

27. Joseph Gutradt Co., 350 Fremont street, San Francisco, Cal.

28. Hauck Mfg. Co., 24 California street, San Francisco, Cal.

29. Universal Trading Co., 171 Broadway, New York City.

30. H. W. Johns-Manville Co., 2nd and Howard streets, San Francisco, Cal.

31. U. S. Rubber Co. of California, 50 Fremont street, San Francisco, Cal.

32. The Heyman-Weil Co., 720 Mission street, San Francisco, Cal.

33. W. E. Mushet & Co., 518 Mission street, San Francisco, Cal.

34. Marshall-Wells Hardware Co., Portland, Ore.

35. Morgan & Allen Co., 150 Post street, San Francisco, Cal.

36. Burroughs Adding Machine Co., 742 Market street, San Francisco, Cal.

37. Paul Brant, 67 Main street, San Francisco, Cal.

38. Nathan-Dormann Co., Geary and Stockton streets, San Francisco, Cal.

39. Haller-Cunningham Electric Co., 428 Market street, San Francisco, Cal.

40. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

41. H. S. Crocker Co., 565 Market street, San Francisco, Cal.

42. Bennett Bros., 514 Market street, San Francisco, Cal.

43. Handlan-Buck Mfg. Co., St. Louis, Mo.

44. Levenson & Co., 325 Market street, San Francisco, Cal.

45. Crane Co., 2nd and Brannan Sts., San Francisco, Cal.

46. Marine Electric Co., 350 Howard street, San Francisco, Cal.

47. G. M. Josselyn & Co., 58 Sacramento street, San Francisco, Cal.

48. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

49. The Osborn Mfg. Co., Cleveland, Ohio.

Item 1. 12 hooks, letter copying—Bid 29, $2.98 ea; no award.

2. 50 fittings, electric, sockets—Bid 2, 24.57c ea; 8, 24.97c; 24, 24.57c; 39, 25c; 46, 24.57c; 48, 23.45c, accepted.

3. 48 holystones, genuine, 10x6x4 in—Bid 20, 48c ea, accepted; 47, 60c.

4. 100 kettles, tea, 5-qt—Bid 6, $1 ea; 8, 68.33c, accepted; 17, 71c; 22, 85c and $1; 34, 85c.

5. 100 pots, coffee, 4-qt—Bid 1, 37c ea; 6, 43c; 8, 49.97c; 17, 38c; 22, 40c; 29, 40.97c; 34, 50c; 38, 37c; 48, 35c, accepted.

6. 4 anchors, marine, kedge, 200-1b—Bid 3, 8.2c lb; 20, 10c; 23, 8c, accepted; 29, 8.34c; 47, 10c.

7. 6 do, 250-1b—Bid 20, 10c lb; 23, 8c, accepted; 29, 8.34c; 47, 10c.

8. 12 do, 300-1b—Bid 20, 10c lb; 23, 8c, accepted; 29, 8.34c; 47, 10c.

9. 3 do, 400-1b—Bid 20, 10c lb; 23, 8c, accepted; 29, 8.34c; 47, 10c.

10. 50 axes, firemen's per spec. 4-1b—Bid 6, $1.15 ea; 8, $1.463; 12 83½c, accepted; 19, $1.19; 29, 99.7c; 37, $1; 40, $1.24; 43, $1.04; 48, 98c.

11. 150 do, 5-1b—Bid 6, $1.15 ea; 8, $1.463; 12, 87½c, accepted; 15, $1.30; 19, $1.24; 29, $1.034; 37, $1; 40, $1.24; 43, $1.09; 48, $1.02.

14. 1,000 bolts, stove, r. h., 3-16x⅜ in—Bid 6, 16c per 100; 17, 24c; 48, 17c, accepted.

15. 300 lbs brass, sheet, hard, No. 8—Bid 6, 58c lb, accepted; 9, 70c.

16. 150 lbs do, No. 14—Bid 9, 70c lb; no award.

17. 750 brooms, deck, coir, round—Bid 1, 34c ea; 29, 58.97c, 62.97c, and 66.97c; 32, 39c; 49, 32½c; award pending.

18. 750 do, square—Bid 1, 38c ea; 9, 36c; 20, 43c, 45c, and 55c; 32, 44½c; award pending.

19. 5,000 ft chain, anchor, ⅝-in, plain link—Bid 10, 7½c lb; 16, 6¼c, accepted; 20, 8c; 23, 7¼c; 34, 7¾c; 40, 8c; 43, 10.55c.

20. 4,800 ft do, ⅝-in—Bid 3, 8.95c lb; 10, 7.1c; 16, 5.85c, accepted; 20, 7¾c; 23, 6.85c; 34, 7¼c; 40, 7.6c; 43, 9.7c.

21. 6,000 ft do, ¾-in, studded link—Bid 10, 6.8c lb; 16, 5½c, accepted; 20, 9¼c; 23, 6¾c; 34, 7c; 40, 7¼c; 43, 8.6c.

22. 2 chains, wheel, steel block—Bid 3, 7½c, 8c, and 9c lb; 10, 7¾c; 20, 7¾c; 23, 7c, accepted; 34, 7½c; 40, 9½c.

23. 2 clocks, office, 8-in, octagon—Bid 33, $7.26 ea; 35, $2.90; award pending.

24. 6 do, octagon drop—Bid 33, $1.68 ea; 35, $3.05; do.

25. 100,000 clothespins, common—Bid 1, 15½c gr; 6, 15c; 17, 90c and 80c per 5 gr; 21, 13.88c gr, accepted; 29, 25.97c and 28.97c; 32, 15c; 34, 17c; 44, 16c; 48, 16c.

26. 50 dusters, ostrlich feather—Bid 6, $1.60 ea; 29, $3.47; 32, $2.79; 42, $2.79, accepted.

27. 30 pads, numbering machine, 7-wheel—Bid 11, 6½c ea, accepted; 41, 10c.

28. 30 do, 6 wheel—Bid 11, 6½c ea, accepted; 41, 10c.

29. 100 rms paper, bond, light green—Bid 5, 49c rm, accepted; 13, 82c and 54c; 29, 52.4c.

30. 400 rms do, white—Bid 5, 49c rm, accepted; 13, 63c and 54c; 29, 49.7c.

31. 100 rms do, yellow—Bid 5, 49c rm, accepted; 13, 82c and 54c; 29, 52.4c

32. 4,000 sheets paper, bristol board, 22½x28½ in—Bid 3, $3 and $2.50 per 100 sheets; 13, $2.80, accepted.

36. 6 bushings, locking, electrose—Bid 2, $1.35 ea, accepted; 24, $1.35; both 60 days delivery.

37. 6 insulators, roof electrose—Bid 2, $3 ea, accepted; 24, $3; both 50 days.

38. 100 insulators, strain, electrose—Bid 2, 50c ea, accepted; 24, 50c; both 60 days.

39. 10 insulators, electrose, 7-in—Bid 2, 90c ea, accepted; 24, 90c; both 60 days.

10. 1 lb silicon, fused—Bid 39, $2.50 lb, accepted.
41. 5,000 ft wire, antennae—Bid 39, 2½c ft; 46, 2c, accepted.
42. 350ft do, high tension—Bid 46, 12½c ft, accepted.
43. 24 ribbons, adding machine—Bid 14, 29c ea, accepted; 29, 49c; 36, 75c.
44. 60 do, numbering machine—Bid 14, 9c ea, accepted; 29, 24c; 41, 22c.
45. 6 scales, ice, spring balance—Bid 34, $3.25 ea; no award.
46. 12 sets grommet, style B—Bid 10, $1.45 ea, accepted; 20, $2.50.
47. 10,000 lbs soda, sal—Bid 4, 2.37c lb; 21, 1.87c, accepted; 27, 1.95c.
48. 4 vises, bench, comb, 3½-in jaws—Bid 6, $6.25 ea, accepted; 9, $6.40; 40, $7.10; 48, $7.13.
49. 4 do, 4¾-in jaws—Bid 6, $11 ea, accepted; 9, $11.20; 40, $12.50; 48, $13.-97.
51. 2 lbs wire, magnet—Bid 39, 70c lb, accepted.
52. 6 wrenches, pipe, Stillson, 48-in—Bid 6, $4.70 ea; 9, $5.20; 17, $5.25; 40, $3.74, accepted; 45, $4.72; 48, $5.15.
53. 300 snaths, scythe—Bid 6, 62½c ea; 8, 67.75c and 64.75c; 29, 70.89c; 34, 60c; 40, 59c, accepted; 43, 60½c; 48, 60c.
54. 600 lbs waste, wool—Bid 8, 11.-91c and 14.37c lb; 40, 9½c; award pending.
55. 6 furnaces, plumber's—Bid 6, $3.-70 ea; 17, $6; 24, $3.67, accepted; 28, $7.
56. 6 levels and plumbs, 12-in—Bid 6, $1.20 ea; 40, $1.10; 48, $1.20; no award.
57. 12 planes, iron block, 5½-in—Bid 6, 35c ea; 40, 35c; 48, 35c, accepted; all 1 day delivery.
58. 200 lbs compound, hardening—Bid 7, 12c lb, accepted; 8, 8.19c; 29, 15.73c.
59. 150 gals fluid, embalming—Bid 7, $1.60 gal; 8, $1.57, accepted; 29, $1.447.
60. 12 prs gloves, rubber, No. 8—Bid 8, 34.4c pr; 18, 46c; 25, 29c, accepted; 26, 48c; 29, 43.9c; 31, 42 2-3c.
61. 12 prs do, No. 9—Bid 8, 34.4c pr; 18, 46c; 25, 29c, accepted; 26, 48c; 29, 43.9c.
62. 12 prs do, No. 10—Bid 8, 34.4c pr; 18, 46c; 25, 29c, accepted; 26, 48c; 29, 43.9c.

Aberdeen, Wash., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., April 3, for the construction, complete, including mechanical equipment and approaches, of the U. S. post office at Aberdeen, Wash.:

M. P. Zindorf, Seattle, Wash., limestone, $83,160; sandstone, $83,160.

Knoell Bros., Tacoma, Wash., limestone, $89,623; sandstone, $87,677.

T. E. Young & Co., Seattle, Wash., limestone, $74,526; sandstone, $74,161.

Hiram Lloyd Building and Construction Co., Odd Fellows' Building, St. Louis, Mo., limestone, $83,786; sandstone, $83,586.

Harding F. Allen, Seattle, Wash., limestone, $75,300; sandstone, $74,700.

Thomas W. Cissell, Wooster, Ohio, limestone, $82,000; sandstone, $85,000.

Stebinger Bros., Portland, Ore., limestone, $78,210; sandstone, $77,210.

Campbell Building Co. of Utah, Salt Lake City, Utah, limestone, $96,700; sandstone, $96,400.

Sylliaasen & Sando, Seattle, Wash., limestone, $107,300; sandstone, $86,855.

Wm. H. Maxwell, Lakeside, Wash., limestone, $107,300; sandstone, $107,-800.

J. B. Sweatt, Spokane, Wash., limestone, $87,247; sandstone, $87,000.

H. D. Stewart, Seattle, Wash., limestone, $89,994; sandstone, $89,694.

Welch Bros., & Hannaman, Oakland, Cal., limestone, $77,777; sandstone, $77,377.

Olsen & Johnson Co., Missoula, Mont., limestone, $79,740; sandstone, $79,140.

Sound Construction & Engineering Co., Seattle, Wash., limestone, $76,869; sandstone, $76,500.

Palmberg & Mattson, Astoria, Ore., limestone, $113,000; sandstone, $113,000.

John Wallin, Tacoma, Wash., limestone, $75,776; sandstone, $75,318.

Henrikson & Co., Seattle, Wash., limestone, $74,708; Wilkinson sandstone, $74,050; Tinino sandstone, $73,-858.

Douglas, Wyo., Shelving.

The contract for installing metal vault shelving in the U. S. post office at Douglas, Wyo., has been awarded to the H. H. Shults Co., Gowanda, N. Y., at $267.

North Platte Project.

Under authority of the Secretary of the Interior the following contracts have been awarded in connection with the Fort Laramie Canal, North Platte irrigation project, Nebraska-Wyoming: For earthwork involving the excavation of approximately 810,000 cu yds and 157,000 cu yds of overhaul, to MacArthur Bros. Co., Chicago, Ill., contract price, $153,605. To the Security Bridge Co., Minneapolis, Minn., schedule 1, Laramie River siphon and Deer Creek siphon, contract price, $39,877. To MacArthur Bros. Co., Chicago, Ill., schedule 2, three culverts, $18,265.

Medford, Ore., Desks.

The following bids were received by the supervising architect, Treasury Department Washington, D. C., for furnishing desks for the court house at Medford, Ore.:

Pacific Furniture & Fixture Factory, 113 S. Holly street, Medford, Ore., $176.

John E. Sjostrom Co., Philadelphia, Pa., $255.

R. I. Stuart, Medford, Ore., $300.

Jacob Beitzel & Sons, York, Pa., $321.

Honolulu, H. T., Paints and Oils.

The contract for furnishing paints and oils for the U. S. quarantine station at Honolulu, H. T., has been awarded to E. O. Hall & Son at $802.27.

Barren Island Light, Tower.

The following bids were received by the lighthouse inspector, 16th district, Ketchikan, Alaska, for constructing a steel tower for Barren Island light:

Item 1, all material galvanized; 2, painted with oil and red lead; 3, painted with Tockolith.

Seattle Construction and Dry Dock Co., Seattle, Wash., item 1, $1,824; 2, $1,340; 3, $1,326; 30 days.

Judson Mfg. Co., San Francisco, Cal., item 1, $1,698; 2, $1,260; 3, $1,260; 60 days.

Westerman Iron Works, Seattle, Wash., item 1, $2,040; 2, $1,440; 3, $1,-450; 35 days.

Electric Galvanizing Works, Portland, Ore., item 1, $1,345.

Northwest Steel Co., Portland, Ore., item 1, $1,275, accepted; 2, $1,000; 3, $990; 85 days.

Multnomah Iron Works, Portland, Ore., item 1, $1,065; 2, $735; 3, $735; 60 days.

Dyer Bros. Golden West Iron Works, San Francisco, Cal., item 1, $2,150; 2, $1,600; 3, $1,500; 60 days.

Muir & Symon, Inc., San Francisco, Cay., item, 1, $1,660; 2, $1,185; 3, $1,095.

Reclamation Steel Gates.

The Secretary of the Interior has awarded contract to the Vulcan Iron Works, Denver, Colo., for 468 steel gates and miscellaneous steel for the Flathead irrigation project, Montana. The price involved is $5,407.

HOSPITALS

SAN FRANCISCO—Hospital, 2 story and base, reinforced concrete, $50,000. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Location, 18th and Pennsylvania. Will contain wards and private rooms, office and operating room. Construction fireproof. Interior finish pine, hardwood and white enamel. A large amount of tile wainscot will be used. Steam heat and hot water system, vacuum cleaning and oil burning equipment. Bath rooms tile. Exterior faced with cement plaster. Plans complete and figures being taken.

SAN RAFAEL, MARIN CO., CAL.—Hospital cottage, frame. Cost not stated. Architect, none. Owners, Marin County. Location, Lucas Valley. Designed for a Tuberculosis Cottage. Interior finish, pine. Exterior covered with rustic. Plans complete and figures being taken. Bids to be opened on May 3rd at 2 p. m.

LOS ANGELES, CAL.—Hospital service building and girls' hall, 5 and 3 story and base. Class A construction. Cost not stated. Architect, John Schulz, Wright and Callender Bldg., L. A. Owners, Los Angeles County. Location, County Hospital grounds. The service building will be five stories and cover an area of 73 by 110 feet, while the girls' hall will be three stories and cover an area of 110 by 150 feet. Complete steel frames and exterior walls of brick faced with pressed brick will be used. Interiors will be finished in pine, hardwood and tile. Hollow tile interior partitions are specified. There will be four automatic elevators, three dumb waiters, steam heat, hot water supply, vacuum cleaning and oil burning plant. Plans are being prepared.

LOS ANGELES, CAL.—Hospital additions, 2, 1 and 2 story, brick. Cost not stated. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. Both the men's and women's wards will have an additional wing of 27 by 110 feet. Each will contain accommodations for twenty patients and the help. Exteriors will be faced with pressed brick. Plans are complete and figures will be called for shortly.

COLFAX, WASH.—Hospital, 5 story and base, brick and stone, $90,000. Architects, Beezer Bros., Northern Bank Bldg., Seattle. Owners, Sisters of Charity. Construction will be fireproof. There will be a large number of private rooms, several wards, operating rooms, offices and special treatment rooms. One wing of the building will be occupied by the Sisters as living quarters. Interior will be finished in hardwood and tile. A central heating plant, probably steam heat will be installed. Bath rooms tile. Elevator service, vacuum cleaning, hot water supply and special plumbing. Exterior faced with pressed brick and cut stone. Plans being prepared.

HOTELS

OCEAN PARK, LOS ANGELES CO., CAL.—Hotel, 10 story and base. Class A construction, $1,000,000. Architect, A. B. Rosenthal, Lankershim Bldg., L. A. Owner, Henry W. Schleuter. The

hotel will extend over the ocean for a distance of 300 feet and is designed in the shape of the letter "E." The outer wings will be eight stories and the central portion, ten stories. The building will be 200x250 feet, and will contain over 600 guest rooms, each with private bath room, dressing room and closet. There will also be a lobby, 200x150 feet, banquet room 50x200 feet, ball room 50x200 feet, buffet 50x100 feet, Dutch grille 48x90 feet. The basement will contain a large cafe, plunge, gymnasium, showers, servants' rooms, etc.

IRRIGATION PROJECTS

FRESNO, FRESNO CO., CAL.—Irrigation dam, reinforced concrete. Cost as follows. Engineer's name not given. Owners, Nares and Teilman, Fresno. Engineers, representing L. A. Nares and I. Teilman, are now in the Mill Creek and Pine Flat country making preliminary working surveys for the reservoir project to develop the sites for the impounding of the waste waters of the Kings River, owner by the Nares-Teilman interests. The construction of reservoirs costing $6,000,000, and large enough to impound water sufficient for irrigating and reclaiming 600,000 acres, is planned for the future.

ALPAUGH, KERN CO., CAL.—Irrigating pumps and machinery. Cost not stated. Engineer, Chief Engineer Alpaugh Irrigation District, Alpaugh. Owners, Alpaugh Irrigation District. Sealed proposals will be received by the undersigned up to 1 o'clock p. m. of the 28th day of April, 1916, to furnish and install the following equipment: (1) Furnishing and installing machinery, motors, transformers, wiring and appurtenances and housing for same to lift twenty second feet or 9,000 gallons per minute at Smyrna, Kern County, California. (2) Drilling five wells at Alpaugh, California, and equipping same with proper pumping machinery. (3) To furnish and erect one 65,000-gallon hemispherical bottom steel tank and tower with concrete foundation and appurtenances at Alpaugh. (4) To furnish and install a pump, motor, gasoline engine and appurtenances and housing for same at said tank at Alpaugh. (5) To construct concrete reservoir. (6) To furnish and lay approximately 193,500 feet of soil-proof riveted steel pipe, with necessary valves, fittings and appurtenances. (7) Repairing and regrading approximately 6.5 miles of earth canal. Plans and specifications for said work may be seen at the office of the undersigned. They may be obtained by addressing the undersigned and enclosing $10.00, which will be refunded upon return of plans. By order of the Board of Directors of Alpaugh Irrigation District. W. T. HOLTON, Secretary, Alpaugh, California.

MUSEUM.

SAN FRANCISCO—Museum, 2 story, reinforced concrete, $50,000. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Location, Golden Gate Park. Designed in the Mission style. Interior finish pine and hardwood. Will contain public display rooms, office and store rooms. Special electric work. Exterior faced with cement plaster. Clay tile roof. Preliminary plans only prepared.

POWER IMPROVEMENTS

OAKLAND, CAL.—Well boring. Cost not stated. Engineer, County Surveyor Oakland. Owners, Alameda County. Bids will be received on May 1st at 10 a. m. for boring and constructing a well and furnishing the necessary appliances as per plans and specifications adopted by said Board for the doing of said work. The plans are in two sections, one section for the well drilling and casing; and the second section for the pump and tank. Bidders may bid on one or both of said sections.

PASADENA, LOS ANGELES CO., CAL.—Boiler and pump equipment. Cost not stated. Engineer, City Engineer, Pasadena. Owners, City of Pasadena. Bids will be received by the City Clerk up to 10 a. m. Tuesday, April 25, 1916, for furnishing the city with the following boiler and pump equipment: Item 1, one water tube boiler, 200 pounds pressure, 6,000 square feet heating surface, 4-inch tubes, 100-degree F. superheater, Lukemheimer Excelsior gauge cocks, No. 1402 Nelson 300-pound blowoff, Hammell oil furnace and burners, 60-inch by 100-foot stack, etc. Item 2, one water tube boiler, 7,000 to 7,500 square feet heating surface. Item 3, separate bids for setting boilers in steel casings. Item 4, one 7-stage, high-lift, centrifugal boiler feed pump, maximum 300 gallons per minute against 225 pounds head, cast iron bed plate, operated by motor, 75 H. P., 50-cycle, 3-phase, 2300-volt, polar wound, wound rotor, complete with started, General Electric, Westinghouse, Allis-Chalmers or equivalent equipment. Check for 10 per cent to accompany all bids. Heman Dyer is City Clerk.

HEMET, RIVERSIDE CO., CAL.—Water system repairs, $65,000 to $75,000. Engineer's name not given. Owner, W. F. Whittier, Hemet. The Lake Hemet Water Co. is preparing to rebuild four miles of 26-inch main flume and repair the entire system.

RAYMOND, WASH.—Water system, $100,000. Engineer, City Engineer D. Henry, Raymond. Owners, City of Raymond. City Engineer D. Henry is making surveys for the construction of an extension and addition to the water system here. The work will consist of a reservoir for the distribution system, impounding reservoir and headworks and a seven-mile gravity line of 26-inch continuous wood stave pipe.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Water pipe. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the Clerk was authorized to advertise for bids for the purchase of approximately 900 feet of 14-inch water pipe for use from the upper reservoir to Spring street. Further information may be had from the City Clerk at Santa Cruz.

Contracts Awarded

CALEXICO, IMPERIAL CO., CAL.—Water system extensions, $21,764.48. Engineer, City Engineer, Calexico. Owners, City of Calexico. Contractors, Poyton & Co., 216 North Los Angeles street, L. A. Contract price, $21,764.48.

RESIDENCES.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,000. Architect, P. Righetti, Phelan Bldg., S. F. Owner, Miss Alma Kress. Location, west Crafton Way north of El Portal. Will contain six rooms, bath and basement garage. Interior finish pine and elm panels with white enamel in the bed rooms. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residences, 3, 2 story and base, frame, $3,000 each. Architect, none. Owner, F. B. Southworth, First National Bank Bldg., S. F. Location, west Greenwich east of Broderick. Each house will contain six rooms, bath and basement garage. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with pressed brick and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,750. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Will contain seven rooms, two baths and sleeping porch. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $6,000. Architect, Josept A. Leonard, 85 Ceritos avenue, S. F. Owners, Urban Realty Co., sold to B. A. Larned. Location, west Urban Drive south of Moncada. Will contain eight rooms, two baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and hot water system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $2,400. Architect, none. Owner, W. Miller, 2503 Clement street, S. F. Location, west 28th avenue north of Clement. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $7,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner's name withheld. Location, Forest Hill. Will contain seven rooms, bath and sleeping porch. Separate garage. Interior finish gum and white enamel. Hardwood floflors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 1 story and base, frame, $2,500. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, J. R. Sloan. Location, Eagle avenue and Willow street. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and elm panels. Hardwood floors. White

enamel in the bed rooms. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $4,500. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, S. P. Ward. Location, Caperto avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Furnace heat. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, A. C. Lee, 1526 Morton street, Alameda. Location, west Loma Vista north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. C. Hillen, 430 Haight street, Alameda. Location, west Vicksburg south of 50th avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 28th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, P. Schnoor, 5905 Claremont avenue, Oakland. Location, north Cabot Road west of Elsie. Will contain eight rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story, and base, frame, $2,000. Architect, none. Owner, R. K. Larsen, 1205 30th avenue, Oakland. Location, west 30th avenue south of East 14th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, T. T. Frickstad, 2145 Stuart street, Berkeley. Location, west Baker north of Irving. Wil contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,300. Architect, none. Owner, Edith Hampel, 1149 18th avenue, Oakland. Location, north Logan west of Fruitvale. Will contain six rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 4, 1 story and base, frame, $2,000 each. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owners, Alameda Land Co. Location, Santa Clara near Benton. Each will contain five rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Bath rooms tile. Exteriors covered with cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, ohn Hudson Thomas, First National Bank Bldg., Berkeley. Owner, T. L. Hamlin. Location, Benvenue avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Hot water heater. Bath room finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, H. L. Houch, 4315 Everett avenue, Oakland. Location, south Edgewood avenue north of Wellington. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. B. Clifford, 3847 35th avenue, Oakland. Location, southwest corner Laurel avenue and Delaware. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, C. N. Taylor, Oakland. Location, east Seminary north of Foothill Boulevard. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, J. C. Coward, 6081 Claremont avenue, Oakland. Location, east Elsie north of Chabot road. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, A. P. Anderson, 622 47th street, Oakland. Location, south Alleen west of Adeline. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,800. Architect, Charles W. McCall, Central Bank Bld., Oakland. Owner, Miss L. L. Wood. Location, west Monte avenue near Park Way. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL. — Residences, 3, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, south Cleveland east of Spruce. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

PALO ALTO, SANTA CLARA CO., CAL.—Residence, 2 story and base, concrete and brick, $25,000. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, Trustees of Leland Stanford, Jr., University. Location, University Campus. The first sketches for the president's residence have been changed and a new location, involving a high side scheme has been selected. The dwelling will contain twelve or fourteen rooms, several bath and sleeping porches. Interior will be finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors will be used. There will be steam heat and a hot water system. Bath rooms will be finished in tile. Open fire places and tile or brick mantels will be used. Exterior will be faced with cement plaster. Plans are being prepared.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $6,500. Architect, none. Owners, Central California Land and Improvement Co., 955 I street, Fresno. Location, La Sierra Tract. Will contain eight rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors and furnace heat. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $3,900. Architect, none. Owners, Central California Land and Improvement Co., 955 I street, Fresno. Location, La Sierra Tract. Will contain seven rooms, bath

and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath room tile. Automatic water heater. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

WOODLAND, YOLO CO., CAL.—Residence, 2 story and base, frame, $6,000. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. G. Stephens. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

WOODSIDE, SAN MATEO CO., CAL.—Residence and outbuildings, 1 and 2 story and base, frame, $25,000 or more. Architects, Reid Bros., California Pacific Bldg., S. F. Owner, William M. Fitzhugh. Will contain fourteen rooms, several baths and sleeping porches. Stables and greenhouses will also be erected. Interior of the dwelling will be finished in pine, hardwood and white enamel. Hardwood floors. Central heating system and open fire places. Mantels brick and tile. Bath rooms finished in tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 1 to 4 story and base, frame, $5,000. Architect, Charles E. J. Rogers, Phelan Bldg., S. F. Owner's name withheld. Location, Villa Terrace. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base frame, $2,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Miss Edith Harwood. Location, East Oakland. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, Universal Drafting Bureau, 1844 5th avenue, Oakland. Location, Stonehurst. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 13, 1 story and base, $2,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. H. Packard. Location, Fernside and Pearl streets. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame, $25,000. Architect, A. D. Hill, 775 South Molino avenue, L. A. Owner, L. A. Olmsted. Location, Ridgeway and El Molino avenues. Will contain thirteen rooms, four baths, sleeping porches and conservatory. Interior finish hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Central heating system and hot water circulating system. Open fire places and tile or brick mantels. Exterior finished with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Frank L. Meline, 7772 Hollywood Boulevard, L. A. Owner, Mr. Williamson. Location, Hollywood Boulevard and Martel. Will contain sixteen rooms and four baths, sleeping porches and servants' quarters. Interior finish hardwood, white enamel and gum. Hardwood floors. Hot water heating system and hot water circulating system. Bath rooms tile. Showers. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor under the direction of the architect.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architect, Reginald D. Johnson, Staats Bldg., L. A. Owner, Briggs C. Keck Co. Location, South El Molino avenue between Oak and Canyon. Will contain eleven rooms and three baths. Interior finish pine, gum and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Central heating system and hot water supply. Bath rooms finished in tile. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $2,800 each. Architect, none. Owner, Oscar Lind, 4385 25th street, S. F. Location, east 9th avenue north of Balboa. Each house will contain six rooms and bath. Basement garages. Interiors finished in gum, pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MARTINEZ, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $4,500. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, J. E. Colton. Will contain seven rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel. Hardwood floors. Furnace heat and open fire place. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and bids to be called for at once.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Peter Nemcook, 1145 Washington street, Albany. Will contain four rooms. Interior finish pine and redwood. Hardwood floor. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,000. Architect, none. Owner, J. Salvaviessa, 5471 Claremont avenue, Oakland. Location, east Vincente south of 58th street. Will contain five rooms and bath. Interior finish pine. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson, Thomson Bldg., Oakland. Location, west Bella Vista avenue north of East 28th street. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, George Risher, 1814 Hearst avenue, Berkeley. Location, south Hearst avenue east of Grant. Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Tile bath room. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Owner, Miss Helen Cashman. Contractor, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Contract price not stated.

SCHOOLS

HILLSBOROUGH, SAN MATEO CO., CAL.—School, 1 story, frame. Cost not stated. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Will contain two class rooms. Interior finish pine with maple floors. Exterior covered with cement plaster. Plans complete and figures being taken. Bids to be opened on May 2 at 11 a. m. Plans on file at architect's office. An official proposal appears in another column of this issue.

OAKLAND, CAL.—Manual training school, 2 story, frame, $4,000. Architect, none. Owners, City of Oakland. Bids opened on April 13th for construction of the manual training school at the Highland School show George C. Nall as the lowest bonifide bidder at $4,150. Bids were taken under advisement. A complete list of the bids will be found under the heading of Oakland and Alameda County in this issue.

SEWERS, STREET WORK & WATER SYSTEMS

SAUSALITO, MARIN CO., CAL.—Sewer construction. Cost not stated. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Clerk has been instructed to advertise for bids for sewer work in District D-2. The bids close April 24th, 8 p. m. Plans may be had from the Town Clerk at Sausalito.

HILLSBOROUGH, SAN MATEO CO., CAL.—Road improvement. Cost not stated. Engineer, City Engineer, 202 Hearst Bldg., S. F. Owners, City of Burlingame. Bids will be opened on May 2 for grading, surfacing and otherwise improving Pump House road, from Forest View avenue to the south line of the 15-foot strip of land owned by the Burlingame Land and Water Co.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Sidewalks and paving. Cost not stated. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the City Engineer was instructed to prepare plans and specifications for sidewalks on North Branciforte avenue, from Chilverton street to Lavega Park; also for paving on Seabright avenue. Bids will be called for shortly on this work.

MONTEREY, MONTEREY CO., CAL.—Road work. Cost not stated. Engineer, County Surveyor, Monterey. Owners, Monterey County. Bids will be received on April 1st for grading and macadamizing the Monterey - Carmel road, in Monterey and Carmel Road Districts.

VALLEJO, SOLANO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The City Council has instructed City Clerk Alf. E. Edgcumbe to advertise for bids for constructing sewers in Solano avenue and Everett alley. Further information may be had from the City Clerk at Vallejo.

UKIAH, MENDOCINO CO., CAL. — Culverts, reinforced concrete. Cost not stated. Engineer, County Surveyor, Ukiah. Owners, Mendocino. Bids will be opened on May 5th for the construction of four concrete culverts to be constructed in the First Supervisorial District.

OROVILLE, BUTTE CO., CAL.—Road construction. Cost as follows. Engineer, County Surveyor, Oroville. Owners, Butte County. At the last meeting of the Board of Supervisors bids on the rebuilding of 3½ miles of road between Biggs and Princeton were opened. The bids were as follows: The J. L. Mery Co., Woodland and Mary's Lane, Chico, bid $756 for the subgrade of sections 1, 2 and 3 and $204 for section 4. The Chico Construction Co., 408 Broadway, Chico, bid $150 for section 1, $100 for section 2, $425 for section 3, and $100 for section 4. The bids per cubic yard of rock were: J. L. Mery Co., $2.41 for section 1, $2.50 for section 2; $2.98 for section 3; $4.26 for section 4. Chico Construction Co., $2.61 for section 1; $2.65 for section 2; $3.70 for section 3; $1.35 for section 4. The bids were taken under advisement.

WOODLAND, YOLO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Woodland. Owners, City of Woodland. Bids were ordered received up to April 1st at 8 p. m. at the last meeting of the Council for the paving of First street, from Main to Beamer. Plans may be had from the City Clerk.

SAN RAFAEL, MARIN CO., CAL.—Street paving, etc. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Bids will be received on May 1st for street improvements under the following resolution: A portion of C street, between 2nd and 3rd, be graded and paved with a rock macadam pavement, and that a concrete curb and concrete gutter be constructed along the westerly side thereof.

SAN RAFAEL, MARIN CO., CAL.—Street paving, etc. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Bids will be received until May 1st for paving, curbing and guttering a portion of Linden Lane west of Grand avenue.

NAPA, NAPA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Napa. Owners, City of Napa. Bids will be received until April 24th for street work ordered under the following resolution: That the roadway on Laurel street from Grant avenue to Even street, be graded, cement concrete curbs, and roadway be paved with two-course asphalt macadam, consisting of crushed rock 6 inches in depth after its final rolling, and asphaltum with a penetration between 101 and 150 degrees, District of Columbia standard.

OAKLAND, CAL.—Street paving. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on April 27th under the following resolution: That Sunset avenue, from Lynde street to Bona street, be graded, curbed with redwood, guttered with concrete gutters 3 feet wide and paved with oil macadam.

OAKDALE, STANISLAUS CO., CAL.—Street paving, $10,020. Engineer, City Engineer Harlowe, Oakdale. Owners, City of Oakdale. After considerable discussion and delay the City Trustees have passed a resolution of intention providing for the paving of F street. The specifications prepared by City Engineer Charles Harlowe called for the removal of 10,125 cubic feet of earth in excavation, and of 12,825 feet of filing, and 76,583 square feet of paving.

MERCED, MERCED CO., CAL. — Street paving. Cost not stated. Engineer, City Engineer, Merced. Owners, City of Merced. At the last meeting of the City Trustees a resolution was adopted providing for the grading of 30th street, from M to V, with a macadam facing 20 feet wide; and also the grading of 14th street, from M to P; 15th street, from M to R; M street, from 13th to 15th; N street, from 13th to 15th; O street, from 12th to 15th, and as much of this covered with macadam as the funds will permit.

CALEXICO, IMPERIAL CO., CAL.—Sewer system. Cost not stated. Engineer, City Engineer, Calexico. Owners, City of Calexico. The Board of Trustees has instructed City Engineer H. W. Blaisdell to prepare surveys, plans and specifications for a proposed drainage storm sewer from the end of 6th street. The sewer will be for the purpose of carrying overflow and drainage waters to New River. All of the drainage, it is said, flows into 6th street, and the proposed extension would handle the problem for the entire city. Further mention will be made of this work.

BERKELEY, ALAMEDA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contracts for the following work: Improving Durant avenue, from Shattuck avenue to College avenue, by regrading, concrete curbs and gutters, cast iron culverts with concrete inverts and granite header blocks, and paved with asphaltic concrete wearing surface 2 inches thick laid on a concrete foundation 5 inches thick.

SACRAMENTO, CAL.—Street paving. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Teichert & Son, Ochsner Bldg., Sacramento. Contract for the following work: Improving 17th street, between Q and R streets, by removing and disposing of all surplus and refuse material; constructing concrete curbs, manholes, 6-inch vitrified ironstone sewer pipe, etc., grading and an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches thick.

SAN RAFAEL, MARIN CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. Bids will be opened on May 3rd at 2 p. m. for repairing, reconstructing and regrading that portion of the county road leading from Marshalls to Tomales, from the Walker's Creek bridge northerly for a distance of 8-10 of a mile, in Road District No. 5; and from said bridge southerly for a distance of three miles, in Road District No. 11, and for constructing culverts, paving and rip-rap thereon.

WHITTIER, LOS ANGELES CO., CAL.—Street improvement, $18,000. Engineer, City Engineer, Whittier. Owners, City of Whittier. The S. C. Contracting Co. was the lowest bidder at about $18,000 for improving a portion of Lemon street.

LOS ANGELES, CAL.—Highway improvement, $19,700. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. The S. C. Contracting Co. was the lowest bidder at $19,700 for constructing concrete pavement on 1.51 miles of highway near Pale Verde station in Road Improvement District No. 61.

Contracts Awarded

BERKELEY, ALAMEDA CO., CAL.—Street paving, $28,976.63. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Oakland Paving Co., 5000 Broadway, Oakland. Contract price, $28,976.63.

FRESNO, FRESNO CO., CAL.—Furnishing cement, $2.83 per barrel. Engineer, County Surveyor, Fresno. Owners, Fresno County. Contractors, Santa Cruz Portland Cement Co., Crocker Bldg., S. F. Contract price, $2.83 per barrel.

EL CENTRO, IMPERIAL CO., CAL.—Sewer work, $119,347.80. Engineer, City Engineer, El Centro. Owners, City of El Centro. Contractor, James Kennedy, Washington Bldg., L. A. Contract price, $119,347.80.

CALEXICO, IMPERIAL CO., CAL.—Sewer construction, $15,343.18. Engineer, City Engineer, Calexico. Owners, City of Calexico. Contractors, California-Arizona Construction Co., 1700 East Washington street, L. A. Contract price, $15,343.18.

SAN FRANCISCO—Street improvements. Costs not given. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Ransome-Crummey Co., First National Bank Bldg., Oakland, for the improvement of Faxon avenue, from De Montfort avenue to Lake View avenue, by grading, construction of concrete curbs,

artificial stone sidewalks, brick catchbasins, an 8-inch vitrified, salt-glazed, ironstone pipe sewer; a 14-foot central strip of vitrified brick pavement, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. D. L. Bienfield, Phelan Bldg., S. F., for the improvement of Highland avenue, from Holly Park Circle to Andover street, by the construction of concrete curbs, a 14 foot central strip of basalt block pavement with gravel filler on a concrete foundation, artificial stone sidewalks, brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. Felix McHugh & Son, San Francisco, for the improvement of Plymouth avenue, between Board St. and Farallones street, by the construction of concrete curbs, artificial stone sidewalks, four brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface. J. F. Dowling, Russ Bldg., S. F., for the improvement of 24th street, between Hoffman avenue and Fountain street, with concrete curbs and a vitrified brick pavement, stone sidewalks, one brick catchbasin, and an asphaltic pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. Felix McHugh & Son, San Francisco, for the improvement of Bacon street, between Girard street and Berlin street, by the construction of concrete curbs, artificial stone sidewalks, brick catchbasin, 8-inch vitrified, salt-glazed, ironstone pipe sewer; also as asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. A. E. Buckman, 352 Geary street, S. F., for the improvement of Judah street, from 17th avenue to 18th avenue, by grading, concrete curbs, artificial stone sidewalks, vitrified, salt-glazed, ironstone pipe sewers and appurtenances, as follows, 8, 12, 15 and 21 inch; four brick manholes, brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch wearing surface.

REDWOOD CITY, SAN MATEO CO., CAL.—Street improvement, $42,073. Engineer, City Engineer, Redwood City. Owners, Redwood City. Outbidding ten other bidders, Blanchard & Ehrhart, 660 Market street, S. F., were awarded the three contracts at the special meeting of the City Trustees for the grading and macadamizing of Broadway from the railroad track to the county road, Main street from the railroad track to the Five Points and for the construction of concrete shoulders on the county road from the Five Points to Whipple avenue. The total amount of Blanchard & Ehrhart's bid for the three jobs was $42,073.06, which was considerably below the total of the next lowest bidder. The Board awarded the contract for the construction of the Main and Broadway street curbs and gutters to Joseph Birkett.

MODESTO, STANISLAUS CO., CAL.—Street improvement. Cost as follows. Engineer, City Engineer, Modesto. Owners, City of Modesto. Contractors, Central California Paving Co., Schafer Bldg., Modesto. Contract prices, 11½c a foot for the paving, 1c per foot for the grading and 65c per linear foot for curb and gutter.

VENTURA, VENTURA CO., CAL.—Street paving, $17,193.38. Engineer, City Engineer, Ventura. Owners, City of Ventura. Contractors, Magill-Finley Co., Santa Ana. Contract price, $17,193.38.

WALLA WALLA, WASH. — Street paving, $89,839. Engineer, City Engineer, Walla Walla. Owners, City of Walla Walla. Contractors, Independent Asphalt Co., Seattle. Contract price, $89,839.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Street paving, $23,507.69. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Contractor, W. E. Miller, Santa Cruz. Contract price, $23,507.69.

STORES AND OFFICES

MARTINEZ, CONTRA COSTA CO., CAL.—Store and offices, 2 story and base, brick, $5,000. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, C. H. Hayden. Will contain one store on the first floor and a number of small offices on the second floor. Interior finish pine. Patent store fronts and marble base. Gas steam radiators. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

SAN MATEO, SAN MATEO CO., CAL.—Department store, 2 story and base, brick and steel, $60,000. Architect, M. M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate. Bids have been opened for this work and show W. S. Leadley, San Mateo, low on the general construction. A contract has not been signed, but it is reported that he will be awarded the work shortly.

LOS ANGELES, CAL.—Stores and lofts, 3 story and base. Class C construction. Cost not stated. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owners, Brown, Pallette & Brown. Location, Los Angeles, between 10th and 11th streets, covering an area of 60 by 140 feet. Will contain stores on the ground floor and a number of lofts on the upper two floors. Interior finish pine. Patent store fronts and marble bases. Elevator service and steam heat. Exterior faced with pressed brick. Plans complete and figures being taken.

THEATRES

SAN FRANCISCO — Theatre alteration. Class C construction, $20,000. Architect, M. Mattanovich, David Hewes Bldg., S. F. Owner, S. H. Levin. Location, southwest Haight and Cole Sts. Work will consist of addition to the stage, a completely equipped scenery loft, new balcony and new interior decoration. A contract for the structural steel has been awarded to the Golden Gate Iron Works for $3,990 and figures are being taken on other parts of the work.

SEALED PROPOSALS

NOTICE TO CONTRACTORS.

SEALED BIDS will be received at the office of Lewis P. Hobart, Crocker Building, San Francisco, **at or before 11 A. M., Tuesday May, 2nd, 1916, for the erection of the Hillsborough District School,** situated in the Town of Hillsborough, County of San Mateo, as per plans and specifications on file at said office.

A deposit of $25.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon return of said plans and specifications accompanied by a regular bid for the work. No bid will be received unless accompanied by a certified check or bond in favor of the undersigned equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

BOARD OF TRUSTEES, HILLSBOR-

PROPOSALS WANTED FOR FURNISHING METAL BOOK RACKS.

SEALED PROPOSALS are hereby invited for furnishing and installing metal book racks in Recorder's Office and will be opened in open session of the Board of Supervisors of the City and County of San Francisco on April 24, 1916, at 3 P. M.

Proposal blanks furnished on application.

J. S. DUNNIGAN, Clerk.

NOTICE TO CONTRACTRS.

SEALED PROPOSALS will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., **until May 20, 1916,** for constructing one concrete and two wooden buildings, and sewer and water system at the naval radio station, Cordova, Alaska. Plans and specifications may be obtained on application to the Bureau of Yards and Docks, Washington, or to the commandant, navy yard, Mare Island, Cal.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 8, 1916.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction complete of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1031 — Proposals for Boiler Tubes, Sheet Copper, Copper Nails, Malleable Iron Castings, Missing Links, Turnbuckles, Twist Drills, Pipe Tongs, Post-Hole Diggers, Garbage Cans, Electric Cable, Wire Transformers, Watthour meters, Electric Switches, Electrical Attachments, Slate, Vitrified Sewer Pipe, Magnesia Pipe Covering, Flax Packing, Plate Glass, Buckskin Gloves, Chrome Yellow, Paper and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 26, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1031) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR LIGHT FIXTURES.

LIGHT FIXTURES—Treasury Department, Supervising Architect's Office, Washington, D. C.—Sealed proposals will be opened in this office at **1 p. m. May 2, 1916,** for furnishing light ing in the United States post office at Denver, Colo., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the custodian, Denver, Colo., in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR BRIDGE.

BRIDGE.—Sealed proposals will be opened by the light house inspector, San Francisco, Cal., at **2 o'clock p. m. April 25, 1916,** for constructing a timber truss foot bridge 78 feet long at Fort Point Light Station, Cal. Information upon application to above office.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Sealed proposals addressed "Proposals for Three Radio Buildings" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. May 20, 1916**, and then and there publicly opened, for constructing the concrete, two wooden buildings and sewer and water systems at the naval radio station, Cordova, Alaska. Plans and specifications can be obtained on application to the bureau or to the commandant, navy yard, Mare Island, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **2 p. m. May 18, 1916**, for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK — Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Powell, Wyo., until **2 o'clock p. m. May 8, 1916**, for the construction of structures on the Shoshone project, Wyoming, involving about 16,000 cubic yards of excavation, 1,500 cubic yards of reinforced concrete, 5,500 square yards of paving and the placing in wooden structures of about 120,000 feet, B. M., of lumber. The work is located near the stations of Garland, Mantua, Prannie, Deaver and Cowley, Wyo., on the C. B. & Q. Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Powell, Wyo. A. P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK — Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Malta, Mont., until **2 o'clock p. m. April 25, 1916**, for structures, Bowdoin Canal, Milk River project, involving about 6,000 cubic yards of excavation, 390 cubic yards of reinforced concrete, 720 square yards of paving, the placing of 17,000 pounds of reinforcement steel, and the placing in wooden structures of about 50,000 feet, B. M., of lumber, the work is located about seven miles east of Malta, Mont., near Strater and Bowdoin stations on the Great Northern Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1032 — Proposals for Steel Reinforcing Bars, Malleable Iron Castings, Nails, Journal Jacks, Drill Sockets, Saucers, Paper Towels, Coal Tar Pitch, Asphaltum, Fire Clay, Ferromanganese, Silica Wash, Silica Grit, Soda Ash and Lime. —Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal Washington, D. C., until **10:30 a. m. April 27, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1032) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum building, Sacramento, California, **up to and including 12 o'clock, noon, Tuesday, May 2, 1915**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineeffing reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Monday, May 8th, 1916**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two New Stairs to Basement," Exposition Building, Agricultural Park, Los Angeles, California, in accordance with plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and al bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two New Stairs to Basement,' Exposition Building, Agricultural Park, Los Angeles, California."

(Signed) W. F. McCLURE,
State Engineer.

NOTICE TO CONTRACTORS.

THE OPENING OF BIDS FOR THE construction and erection of the Armory, Stockton, California, heretofore set for **Tuesday, May 2nd, 1916, at 12 o'clock, noon**, is hereby postponed until **Thursday, May 4th, 1916, at 12 o'clock, noon.**

This postponement is necessary, because of the fact that section 13 of chapter 2, enacted at the extra session of the Legislature, held in January, 1916, provides that the first May presidential primary election to be held under the provisions of the act shall be held on the second day of May, 1916, and said presidential primary election, being a general State election, the second day of May, 1916, is, therefore, a legal holiday.

(Signed) W. F. McCLURE,
State Engineer.

April 6th, 1916.

NOTICE TO CONTRACTORS.

OFFICE OF THE BOARD OF EDUCation of Alameda, Alameda County, California.

Bids will be received by the Board of Education of the City of Alameda, State of California, until **5 o'clock p. m. Tuesday, April 25, 1916**, for the construction and completion of a two-story and basement School Building on that piece of property, two hundred fifty (250) feet west of Oak street, and bounded on the north by Alameda avenue, and on the south by Encinal avenue, in the City of Alameda, County of Alameda, State of California, for each of the following departments of work:

Department 1. Excavating, Grading, Concrete Work, Granite Work, Brick Work, etc.

Department 2. Carpenter Work, Mill Work, Galvanized Iron Work, Roofing, Glass Work, Hardware, Stairs, Patent Flues, etc.

Department 3. Iron Work, both Ornamental and Structural Stetl, Post Caps, Bases, Anchors, etc.

Department 4. Plumbing, Gas Fitting, Marble Work, Vacuum Piping, etc.

Department 5. Electrical Work.

Department 6. Lathing, Plastering, Ornamental Work, Cement Plaster, etc.

Department 7. Painting and Kalsomining.

Department 8. Heating and Ventilating.

Plans and specifications for each of the eight (8) separate Departments, or classes of work, are on file in the office of the Board of Education, in the Alameda City Hall or at the office of Werner & Rogers, architects, Phelan Building, San Francisco, and copies may be obtained upon the deposit of ten dollars ($10.00), which said deposit will be returned upon the return of said plans and specifications. No bidder on Departments 1, 4, 5, 6 and 8 shall keep said plans and specifications for a period exceeding three (3) days. No bidder on Departments 2 and 7 shall keep plans and specifications for a period exceeding two days. No bidder on Department 2 shall keep plans and specifications for a period exceeding seven days.

If any bidder retains said plans and the number of days above designated, specifications for a period exceeding then said deposit of ten dollars ($10.00) shall be forfeited to the City of Alameda.

Bidders may make their bids on any or all of said Departments or classes of work, or any combination of two or more Departments. No bid will be considered unless accompanied by a certified check, payable to the order of C. J. DuFour, secretary of the Board of ducation, certified to by some responsible bank, for an amount not less than 10 per cent of the agwregate amount of the bid or proposal, which it accompanies, said check to be forfeited to the City of Alameda, as agreed and liquidated damages should the party or parties to whom the contract or contracts should be awarded fail to enter into the contract or contracts within ten days after the award, or fail to give a bond or bonds for the faithful performance of a contract or contracts.

Bidders shall make thier bids on the blank forms furnished with the plans and specifications. All blanks in the bid forms shall be completely filled in, giving all proposals asked.

All bids must be enclosed in sealed envelopes, addressed to the Board of Education of the City of Alameda, and be endorsed on the envelope, "Bid for the construction and completion of the New Porter School Building," followed by a designation as to the Department or Departments for which the bid is made.

All bids that do not comply with the above provisions in this notice, and all bids delivered later than **5 o'clock p. m.** sharp on date above specified, will be rejected.

The Board of Education reserves the right to reject any or all bids or proposals.

Dated Tuesday, March 28th, 1916.

JAMES M. SHANLY,

President of the Board of Education of the City of Alameda.
C. J. DUFOUR,
Secretary of the Board of Education of the City of Alameda.

PROPOSALS FOR STEEL TOWERS.

SEALED proposals will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **April 29, 1916**, for constructing two 400-foot steel towers at the Pacific coast torpedo station, Keyport, Wash. Plans and specifications may be obtained on application to the Commandant, Navy Yard, Bremerton, Wash., or to the Bureau of Yards and Docks, Washington.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1029 — Proposals for Galvanized Sheet Steel or Iron, Planished Iron, Malleable Iron Castings, Steel and Iron Repair Parts for Cars, Spring Plates, Drawbar Springs, Brake Beams, Car Journal Bearings, Steel Cable, Scrub Brushes, Duster Brushes, Paint Brushes, File Brushes, Hose, Packing, Asbestos Gaskets, Tarpaulins, Canvas, Burlap, Cheesecloth, Linoleum, Emery Cloth, Toilet Paper, Magnesia Pipe Covering, Drain Tile, Window Glass, Granulated Cork, Calcium Carbide, Lump Chalk, Manganese Dioxide, Sulphate of Copper and Lye.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 20, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1029) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednesday, May 3, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Four Sanitary Hospital Cottages and Six Sanitary Cottages," Veteran's Home of California, Yountville, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's Bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, envelope: "Proposal for 'Four Sanitary Hospital Cottages and Six Sanitary California, and plainly marked on the Cottages,' Veteran's Home of California, Yountville, California."

(SIGNED) W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Tuesday, May 2, 1916**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection

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of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(Signed) W. F. McCLURE,
State Engineer.

NOTICE.

The opening of bids on the Stockton State Armory has been postponed to Thursday, May 4th, due to May 2nd being a Holiday.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F.McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, May, 1, 1915,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Boiler Plant Equipment," Power House, Norwalk State Hospital, near Norwalk, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Boiler Plant Equipment,' Power House, Norwalk State Hospital, near Norwalk, California."

(SIGNED) W. F. McCLURE,
State Engineer. (

FAST ELECTRIC TRAINS TO Sacramento

LEAVE KEY ROUTE FERRY

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., P burg, Bay Point. Carries servation Car. Through to Chico, Marysville, Co Oroville and Woodland.
8:00A	Concord, Diablo and Way tions.
9:00A	Sacramento, Bay Point, P burg, Dixon, Chico, Woodl Carries Parlor Observa Car.
9:40A	Pinehurst, Concord, Sundays Holidays.
11:20A	Sacramento, Pittsburg, Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Point, Colusa, Chico, Wood
3:00P	Sacramento, Dixon, Pittsb Bay Point, Elverta, W land.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, D Jct., Marysville, Colusa, ville and Chico. Observa Car.
5:15P	Pittsburg, Concord, Danville Way Stations, except Sun and Holidays.
8:00P	Sacramento, Pittsburg, D Woodland and Way Stati

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

'ARTMENT HOUSE—3 story and Class C construction, $30,000. Francisco. Architects, Heiman & 'artz, Nevada Bank Bldg., S. F. er, Mrs. Oscar H. Curtaz. Location, Leavenworth north of Bush, cov- g an area of 32½ by 76 feet. Will aln seventeen apartments of two three rooms. Interior finish pine elm panels. Some hardwood floors. m heat and hot water system. Oil ning furnace. Wall beds. Bath ns tile with composition floors. ble and tile wainscot. Exterior d with cement plaster. Plans com- e and segregated figures being en.

'ARTMENT HOUSES—2, 5 story base. Class C construction. Cost stated. San Francisco. Architect, A. Meussdorffer, Humboldt Bank g., S. F. Owner, S. N. Wood. Loca- t, Jackson near Franklin, each cov- ng an area of 60 by 105 feet. Ar- ged for eight apartments in each lding, suites consisting of six and en rooms. Interiors finished in pine, dwood and white enamel. Hard- od floors. Steam heat, oil burning nace and hot water system. Bath ms tile. Marble and tile wainscot. teriors faced with pressed brick and ra cotta. Plans complete and fig- s being taken.

'LATS—2 story and base, frame, 750. San Francisco. Architect, none. ner, John A. Dahlin, 115 Judah St., F. Location, west 7th avenue north Judah. Will contain two flats of e rooms and bath. Interior finish ne, elm and white enamel. Hard- od floors. Open fire places and tile brick mantels. Basement garage. utomatic water heaters. Exterior vered with rustic and cement plaster. ans complete and work to be done by ay Labor.

FLATS—2 story and base, frame, ,000. San Francisco. Architect, none. wner, John V. Stiefel, 184 23rd ave- ue, S. F. Location, south Judah west 5th avenue, covering an are of 25 by feet. Will contain two flats of five nd six rooms with bath and basement arage. Interior finish pine and white amel. Hardwood floors. Open fire laces and tile or brick mantels. Auto- atic water heaters. Furnace heat. xterior covered with rustic and ce- ent plaster. Plans complete and work o be done by Day Labor.

RESIDENCE — 2 story and base, rame, $4,000. San Francisco. Archi- ect, P. Righetti, Phelan Bldg., S. F. Owner, Miss Alma Kress. Location, vest Crafton Way north of El Portal. Will contain six rooms, bath and base- nent garage. Interior finish pine and lm panels with white enamel in the ed rooms. Hardwood floors. Open ire places and furnace heat. Mantels ile and brick. Bath room tile. Auto- matic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, F. B. Southworth, First National Bank Bldg., S. F. Location, west Greenwich east of Broderick. Each house will contain six rooms, bath and basement garage. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with pressed brick and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,750. San Francisco. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Will contain seven rooms, two baths and sleeping porch. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $6,000. San Francisco. Architect, Joseph A. Leonard, 85 Cerritos avenue, S. F. Owners, Urban Realty Co., sold to B. A. Larned. Location, west Urban Drive south of Moncada. Will contain eight rooms, two baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and hot water system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and work to bedone by Day Labor.

RESIDENCE — 2 story and base, frame, $2,400. San Francisco. Architect, none. Owner, W. Miller, 2503 Clement street, S. F. Location, west 28th avenue north of Clement. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,000. San Francisco. Architect, O. R. Thayer, 20 Montgomery St., S. F. Owner's name withheld. Location, Forest Hill. Will contain seven rooms, bath and sleeping porch. Separate garage. Interior finish gum and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1 to 4 story and base, frame, $5,000. San Francisco. Architect, Charles E. J. Rogers, Phelan Bldg., S. F. Owner's name withheld. Location, Villa Terrace. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCES—2, 2 story and base, frame, $2,800 each. San Francisco. Architect, none. Owner, Oscar Lind, 4385 25th street, S. F. Location, 9th avenue north of Balboa. Each house will contain six rooms and bath. Basement garages. Interiors finished in gum, pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2, 2 story and base, frame, $4,000 each. San Francisco. Architect, none. Owners, Cuneo Bros., 152 Tiffany avenue, S. F. Location south Sycamore east of San Carlos. Each building will contain two flats of five and six rooms each. Interior finish pine and redwood. Some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE ALTERATION —Frame, $3,000. San Francisco. Architect, O. E. Evans, 2569 Mission St., S. F. Owner, Gustave Schnee, 80 Silver avenue, S. F. Location, northwest San Jose avenue and 26th street. Work will consist of rearranging the present two-story dwelling and adding one story. There will be a total of four apartments of three rooms. Work will include carpentry, mill work, plastering, electric work and plumbing. Exterior will be covered with cement plaster. Plans are complete and work will be done by Day Labor.

FURNISHING PILES—Cost as follows. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Only two sets of figures were received by the State Board of Harbor Commissioners at their meeting on Thursday, April 13th, for furnishing piles on a three years' contract. McCormick Co., Fife Bldg., S. F., bid 15.9c, 19.5c and 21.5c per lineal foot for the first year, and presented no other bid. Hammond Lumber Co., Newhall Bld., S. F., 10c, 12.45c and 13c for the first year; 10c, 12.75c and 13.5c for the second year, and 11c, 13c and 14c for the third year. The contract was awarded them on that basis.

MUSEUM—2 story, reinforced concrete, $50,000. San Francisco. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Location, Golden Gate Park. Designed in the Mission style. Interior finish pine and hardwood. Will contain public display rooms, office and store rooms. Special electric work. Exterior faced with cement plaster. Clay tile roof. Preliminary plans only prepared.

HOSPITAL—2 story and base, reinforced concrete, $50,000. San Francisco. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Location, 18th and Pennsylvania. Will contain wards and private rooms, office and operating room. Construction fireproof. Interior finish pine, hardwood and white enamel. A large amount of tile wainscot will be used. Steam heat and hot water system, vacuum cleaning and oil burning equipment. Bath rooms tile. Exterior faced with cement plaster. Plans complete and figures being taken.

THEATRE ALTERATION—Class C construction, $20,000. San Francisco. Architect, M. Mattanovich, David Hewes Bldg., S. F. Owner, S. H. Levin. Location, southwest Haight and Cole streets. Work will consist of addition to stage, a completely equipped scenery loft, new balcony and new interior decoration. A contract for the structural steel has been awarded to the Golden Gate Iron Works for $3,990 and figures are being taken on other parts of the work.

Contracts Awarded.

STREET IMPROVEMENTS—Cost not given. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Ransome-Crummey Co., First National Bank Bldg., Oakland, for the improvement of Faxon avenue, from De Montfort avenue to Lake View avenue, by grading, construction of concrete curbs, artificial stone sidewalks, brick catchbasins, an 8-inch vitrified, salt-glazed, ironstone pipe sewer; a 14-foot central strip of vitrified brick pavement, an asphalt pavement consisting of a 6-inche concrete foundation and 2-inch asphaltic wearing surface. D. L. Bienfield, Phelan Bldg., S. F., for the improvement of Highland avenue, from Holly Park Circle to Andover street, by the construction of concrete curbs, a 14-foot central strip of basalt block pavement with gravel filler on a concrete foundation, artificial stone sidewalks, brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. Felix McHugh & Son, San Francisco, for the improvement of Plymouth avenue, between Board St. and Farallones street, by the construction of concrete curbs, artificial stone sidewalks, four brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface. J. F. Dowling, Russ Bldg., S. F., for the improvement of 24th street between Hoffman avenue and Fountain street, concrete curbs and a vitrified brick pavement, stone sidewalks, one brick catchbasin and an asphaltic pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. Felix McHugh & Son, San Francisco, for the improvement of Bacon street, between Girard street and Berlin street, by the construction of concrete curbs, artificial stone sidewalks, brick catchbasins, 8-inch vitrified, salt-glazed, ironstone pipe sewer; also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface. A. E. Buckman, 352 Geary street, S. F., for the improvement of Judah street, from 17th avenue to 18th avenue, by grading, concrete curbs, artificial stone sidewalks, vitrified, salt-glazed, ironstone pipe sewer and appurtenances, as follows, 8, 12 15 and 21 inches; 4 brick manholes, brick catchbasins, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface.

OAKLAND AND ALAMEDA COUNTY

WELL BORING—Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received on May 1st at 10 a. m. for boring and constructing a well and furnishing the necessary appliances as per plans and specifications adopted by said Board for the doing of said work. The plans are in two sections, one section for the well drilling and casing, and the second section for the pump and tank. Bidders may bid on one or both of said sections.

STREET PAVING—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on April 27th under the following resolution: That Sunset avenue, from Lynde street to Bona street, be graded, curbed with redwood, guttered with concrete gutters 3 feet wide and paved with oil macadam.

STREET IMPROVEMENTS—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contracts for the following work: Improving Durant avenue, from Shattuck avenue to College avenue, by regrading, concrete curbs and gutters, cast iron culverts with concrete inverts and granite header blocks and paved with asphaltic concrete wearing surface 2 inches thick laid on a concrete foundation 5 inches thick.

APARTMENT HOUSE—3 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owner, V. N. Strang, 1521 9th street, Alameda. Location, east Oak south of 10th street. Will contain 18 rooms arranged in two and three room apartments. Interior finish pine and elm panels with some hardwood floors. Wall beds and private baths. Steam heat and a hot water supply. Bath rooms tile with composition floors. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base, frame, $9,000. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, John Williams. Location, College avenue near Woolsey. Will contain four suites of four rooms, bath and sleeping porch. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile. Hot water supply and wall beds. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, frame, $6,000. Oakland, Cal. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owner, Mr. Harrington. Location, 12th avenue and East 16th St. Will contain a number of two-room apartments with private baths and wall beds. Interior finish pine and white enamel. Hardwood floors. Hot water supply and gas steam radiators. Exterior covered with cement plaster and rustic. Plans being prepared.

APARTMENT HOUSE 4 story and base, brick, $60,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, Mr McCullough, of Kidder & McCullough. Location, corner of Milvia and University. Will contain four stores on the ground floor and a total of 48 apartments of three rooms each on the upper floors. Interior finish pine, elm and white enamel. Some hardwood floors. Steam heat, oil burning system, hot water supply and automatic elevator. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

FLATS—2 story and base, frame, $4,500. Oakland, Cal. Architects, Hutchinson & McLean, 470 13th street, Oakland. Owners, United Home Builders, 1527 Broadway. Location, southeast corner of Vicente and Miranda. Will contain five and six room flats. Interior finish pine and white enamel with some gum. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 1 story and base, frame, $2,500. Alameda, Alameda Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, J. R. Sloan. Location, Eagle avenue and Willow street. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and elm panels. Hardwood floors. White enamel in the bed rooms. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $4,500. Piedmont, Alameda Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, S. P. Ward. Location, Caperto avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Furnace heat. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, A. C. Lee, 1526 Morton street, Alameda. Location, west Loma Vista north of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, west Vicksburg south of 50th avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 28th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open

fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, none. Owner, P. Schnoor, 5905 Claremont avenue, Oakland. Location, north Cabot road west of Elsie. Will contain eight rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Automatic water heater. Bath room tile. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, R. K. Larsen, 1206 30th avenue, Oakland. Location, west 30th avenue south of East 14th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, T. T. Frickstad, 2145 Stuart street, Berkeley. Location, west Baker north of Irving. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,300. Oakland, Cal. Architect, none. Owner, Edith Hampel, 1449 18th avenue, Oakland. Location, north Logan west of Fruitvale. Will contain six rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, M. L. Newsom, 1748 Broadway, Oakland. Owners, Alameda Land Co. Location, Santa Clara near Benton. Each will contain five rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Bath rooms tile. Exteriors covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, T. L. Hamlin. Location, Benvenue avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Furnace heat. Hot water heater. Bath room finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Owner, H. L. Houch, 1315 Everett avenue, Oakland. Location, south Edgewood avenue north of Wellington. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, J. B. Clifford, 3847 35th avenue, Oakland. Location, southwest corner Laurel and Delaware. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, C. N. Taylor, Oakland. Location, east Seminary north of Foothill Boulevard. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, J. C. Coward, 6081 Claremont avenue, Oakland. Location, east Elsie north of Chabot road. Will contain five rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans complete and work by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, A. P. Anderson, 622 47th street, Oakland. Location, south Aileen west of Adeline. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,800. Piedmont, Alameda Co., Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, Miss L. L. Wood. Location, west Monte avenue near Park Way. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCES—3, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, south Cleveland east of Spruce. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Miss Edith Harwood. Location, East Oakland. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Automatic water heater Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Location, Stonehurst. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—13, 1 story and base, $2,000 each. Alameda, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. H. Packard. Location, Fernside and Pearl streets. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Albany, Alameda Co., Cal. Architect, none. Owner, Peter Nemcook, 1145 Washington street, Albany. Will contain four rooms. Interior finish pine and redwood. Hardwood floor. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,000. Oakland, Cal. Architect, none. Owner, J. Salvaviessa, 5471 Claremont avenue, Oakland. Location, east Vicente south of 58th street. Will contain five rooms and bath. Interior finish pine. Open fire place and tile mantel. Exterior covered with rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $1,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson, Thomson Bldg., Oakland. Location, west Bella Vista avenue north of East 28th St. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, George Risher, 1811 Hearst avenue, Berkeley. Location, south Hearst avenue east of Grant. Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Tile bath room. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MANUAL TRAINING SCHOOL — 2 story, frame, $4,000. Oakland, Cal. Architect, none. Owners, City of Oakland. Bids opened on April 13th for construction of the manual training school at the Highland School show George C. Nall at the lowest bonifide bidder at $4,150. Bids were taken

under advisement. A complete list of the bids will be found under the heading of Oakland and Alameda County in this issue.

FLOUR MILL AND WAREHOUSE—4 and 2 story, mill construction, $400,000. Oakland, Cal. Engineer, R. M. Henningsen, Security Bldg., Oakland. Owners, Albers Bros. Milling Co., 332 Pine street, S. F. Location, Key Route Fill. The milling plant will be four stories high and have a capacity of 1,000 bushels per day. A grain elevator with a capacity of 500,000 bushels will also be erected. The warehouse will cover an area of 170 by 350 feet. Heavy mill construction will be used throughout. Special machinery to be installed is estimated to cost $350,000. Plans are being completed and figures are now being taken for the piles and concrete foundation work. Other parts of the work will be figured shortly.

GARAGE—1 story and base, brick, $20,000. Oakland, Cal. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, Henry Abrahamson. Location, 29th and Broadway. Designed for a commercial garage. Concrete floor. Metal window sash and frames. Special gasoline storage tanks. Office finished in pine. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

STREET PAVING—$28,976.63. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Contractors, Oakland Paving Co., 5000 Broadway, Oakland. Contract price, $28,976.63.

Receive Figures For Oakland School Addition.

Seven Sets of Figures Received for Manual Training Addition at the Highland School.

Seven bids were received by the Oakland Board of Education on April 13th for the construction of a two-story frame manual training building at the Highland School site. All bids were referred to the District Attorney. Following is a complete list of the bids received:

Addition, Highland School.

George C. Nall	$4,150.00
John R. Faulkes	4,323.35
Alfred Olson (Bid received late)	3,452.00
D. F. Harris	4,065.00
Christensen Bros.	3,880.00
J. C. Nielson	4,188.00
Peter M. Schmidt	4,300.00

Alameda Supervisors Receive Figures.

Bids For Lighting Fixtures, Shades and Linoleum for New Detention Home Opened and Contracts Let.

The following bids were received by the Alameda County Board of Supervisors on April 10th for light fixtures linoleum and window shades for the new Detention Home, designed by Architect Henry H. Meyers, Kohl Bldg., San Francisco. Contracts were awarded to the lowest bidders in each case. Following is a list of the bids received:

Lighting Fixtures.

Bradshaw Electric Co.	$1,080.00
Maxwell Hardware Co	900.00
Roberts Mfg. Co.	1,113.00
Bird-Rymer Co.	1,043.50

Linoleum.

Jackson Furniture Co.	$837.32
R. H. Chamberlain	777.00

Window Shades.

R. H. Chamberlain	$195.00

SAN JOSE AND THE SANTA CLARA VALLEY

BRIDGES AND ROAD WORK—Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. At the last meeting of the Board of County Supervisors the County Surveyor was directed to prepare plans and specifications for the following named roads and bridges: Bridge on Foot Hill avenue and McKean road in Road District No 1, and for the improvement of San Martin road from the railroad to the Llagas Creek in Road District No. 1; and for the improvement of McLaughlin avenue in Road District No. 2, and resurfacing roads in Road District No. 2; and for the improvement of Campbell avenue to 20 feet west of the Southern Pacific track in Road District No. 4; and surfacing the concrete of section "A" on the Alviso road improvement, and from 13th street and Berreyessa to the concrete road already completed, and for the improvement of Sierra, Morrill and Cropley avenue and Trimble road in Road District No. 3; also Lincoln avenue from Minnesota avenue to the Almaden road in Road District No. 4.

ROAD IMPROVEMENT — Cost not stated. Hillsborough, San Mateo Co., Cal. Engineer, City Engineer, 202 Hearst Bldg., S. F. Owners, City of Burlingame. Bids will be opened on May 2 for grading, surfacing and otherwise improving Pump House road, from Forest View avenue to the south line of the 15-foot strip of land owned by Burlingame Land and Water Co.

SIDEWALKS AND PAVING — Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the City Engineer was instructed to prepare plans and specifications for sidewalks on North Branciforte avenue, from Chilverton street to Laveaga Park; also for paving on Seabright avenue. Bids will be called for shortly on this work.

ROAD WORK—Cost not stated. Monterey, Monterey Co., Cal. Engineer, County Surveyor, Monterey. Owners, Monterey County. Bids will be received on April 21st for grading and macadamizing the Monterey-Carmel road, in Monterey and Carmel Road Districts.

RESIDENCE — 2 story and base, concrete and brick, $25,000. Palo Alto, Santa Clara Co., Cal. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, Trustees of Leland Stanford, Jr., University. Location, University Campus. The first sketches for the president's residence have been changed and a new location involving a high side scheme has been selected. The dwelling will contain twelve or fourteen rooms, several baths and sleeping porches. Interior will be finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors will be used. There will be steam heat and a hot water system. Bath rooms will be finished in tile. Open fire places and tile or brick mantels will be used. Exterior will be faced with cement plaster. Plans are being prepared.

RESIDENCE AND OUTBUILDINGS—1 and 2 story and base, frame, $25,000 or more. Woodside, San Mateo Co., Cal. Architects, Reid Bros., California Pacific Bldg., S. F. Owner, William M. Fitzhugh. Will contain fourteen rooms, several baths and sleeping porches. Stables and greenhouses will also be erected. Interior of the dwelling will be finished in pine, hardwood and white enamel. Hardwood floors. Central heating system and open fire places. Mantels brick and tile. Bath rooms finished in tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

STREET IMPROVEMENT — $42,073. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. Outbidding ten other bidders, Blanchard & Ehrhart, 660 Market street, S. F., were awarded the three contracts at the special meeting of the City Trustees for the grading and macadamizing of Broadway from the railroad track to the County road; Main street from the railroad track to the Five Points and for the construction of the concrete shoulders on the county road from the Five Points to Whipple avenue. The total amount of Blanchard & Ehrhart's bid for the three jobs was $42,073.06, which was considerably below the total of the next lowest bidder. The Board awarded the contract for the construction of the Main and Broadway street curbs and gutters to Joseph Birkett.

WATER PIPE — Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. At the last meeting of the City Council the Clerk was authorized to advertise for bids for the purchase of approximately 900 feet of 14-inch water pipe for use from the upper reservoir to Spring street. Further information may be had from the City Clerk at Santa Cruz.

DEPARTMENT STORE—2 story and base, brick and steel, $60,000. San Mateo, San Mateo Co., Cal. Architect, M. M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate. Bids have been opened for this work and show W. S. Leadley, San Mateo, low on the general construction. A contract has not been signed, but it is reported that he will be awarded the work shortly.

SCHOOL—1 story, frame. Cost not stated. Hillsborough, San Mateo Co., Cal. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Will contain two class rooms. Interior finish pine with maple floors. Exterior covered with cement plaster. Plans complete and figures being taken. Bids to be opened on May 2 at 11 a. m. Plans on file at architect's office. An official proposal appears in another column of this issue.

Contracts Awarded

STREET PAVING—$23,507.69. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. Contractor, W. E. Miller, Santa Cruz. Contract price, $23,507.69.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SEWER CONSTRUCTION—Cost not stated. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Clerk has been instructed to advertise for bids for sewer work in District D-2. The bids close April 24th, 8 p. m. Plans may be had from the Town Clerk at Sausalito.

SEWER CONSTRUCTION—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The City Council has instructed City Clerk Alf. E. Edgcumbe to advertise for bids for constructing sewers in Solano avenue and Everett alley. Further information may be had from the City Clerk at Vallejo.

ROAD CONSTRUCTION — Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. Bids will be opened on May 3rd at 2 p. m. for repairing, reconstructing and regrading that portion of the county road leading from Marshalls to Tomales, from the Walker's Creek bridge northerly for a distance of 8-10 of a mile in Road District No. 5; and from said bridge southerly for a distance of three miles, in Road District No. 11, and for constructing culverts, paving and rip-rap thereon.

RESIDENCE — 1 story and base, frame, $4,500. Martinez, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, J. E. Colton. Will contain seven rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel. Hardwood floors. Furnace heat and open fire place. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and bids to be called for at once.

STREET IMPROVEMENTS—Cost not stated. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. Bids will be received until April 24th for street work ordered under the following resolution: That the roadway on Laurel street, from Grant avenue to Even street, be graded, cement concrete curbs, and roadway paved with two course asphal macadam, consisting of crushed rock 6 inches in depth after its final rolling and asphaltum with a penetration between 101 and 150 degrees, District of Columbia standard.

STREET PAVING, ETC.—Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Bids will be received until May 1st for paving, curbing and guttering a portion of Linden Lane west of Grand avenue.

STREET PAVING, ETC.—Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Bids will be received on May 1st for street improvements under the following resolution: A portion of C street, between 2nd and 3rd, be graded and paved with a rock macadam pavement, and that a concrete curb and a concrete gutter be constructed along the westerly side thereof.

STORE AND OFFICES—2 story and base, brick, $5,000. Martinez, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, C. H. Hayden. Will contain one store on the first floor and a number of small offices on the second floor. Interior finish pine. Patent store fronts and marble bases. Gas steam radiators. Exterior faced with pressed brick. Plans complete and figures to be called for at once.

HOSPITAL COTTAGE—Frame. Cost not stated. San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. Location, Lucas Valley. Designed for a Tuberculosis Cottage. Interior finish pine. Exterior covered with rustic. Plans complete and figures being taken. Bids to be opened on May 3rd at 2 p. m.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

BRIDGES AND CULVERTS — Concrete and steel. Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. At the last meeting of the County Supervisors the County Surveyor was directed to prepare plans and specifications and present same at the next meeting of the Board for the necessary new bridges and culverts needed in each of the several Supervisorial Districts, under instructions from the Supervisors therein. Bids on this work will be called for on the completion of the plans. Further mention will be made of this work.

IRRIGATION DAM—Reinforced concrete. Cost as follows. Fresno, Fresno Co., Cal. Engineer's name not given. Owners, Nares and Teilman, Fresno. Engineer, representing L. A. Nares and I. Teilman, are now in the Mill Creek and Pine Flat country making preliminary working surveys for the reservoir project to develop the sites for the impounding of the waste waters of the Kings River, owned by the Nares-Teilman interests. The construction of reservoirs costing $6,000,000, and large enough to impound water sufficient for irrigating and reclaiming 600,000 acres is planned for the future.

STREET PAVING—$10,020. Oakdale, Stanislaus Co., Cal. Engineer, City Engineer Harlowe, Oakdale. Owners, City of Oakdale. After considerable discussion and delay the City Trustees have passed a resolution of intention providing for the paving of F street. The specifications prepared by City Engineer Charles Harlowe called for the removal of 10,125 cubic feet of earth in excavation, and of 12,825 feet of filling, and 76,583 square feet of paving.

RESIDENCE — 2 story and base, frame, $6,500. Fresno, Fresno Co., Cal. Architect, none. Owners, Central California Land and Improvement Co., 955 I street, Fresno. Location, La Sierra Tract. Will contain eight rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors and furnace heat. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,900. Fresno, Fresno Co., Cal. Architect, none. Owners, Central California Land and Improvement Co., 955 I street, Fresno. Location, La Sierra Tract. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath room tile. Automatic water heater. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

STREET IMPROVEMENT — Cost as follows. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Owners, City of Modesto. Contractors, Central California Paving Co., Schafer Bldg., Modesto. Contract prices, 11½c a foot for the paving, 1c per foot for the grading and 65c per linear foot for curb and gutter.

IRRIGATION PUMPS AND MACHINERY—Cost not stated. Alpaugh, Kern Co., Cal. Engineer, Chief Engineer Alpaugh Irrigation District, Alpaugh. Owners, Alpaugh Irrigation District. Sealed proposals will be received by the undersigned up to 1 o'clock p. m. of the 28th day of April, 1916, to furnish and install the following equipment: (1) Furnishing and installing machinery, motors, transformers, wiring and appurtenances and housing for same to lift twenty-second feet or 9,000 gallons per minute at Smyrna, Kern County, California. (2) Drilling five wells at Alpaugh, California, and equipping same with proper pumping machinery. (3) To furnish and erect one 65,000-gallon hemispherical bottom steel tank and tower with concrete foundation and appurtenances at Alpaugh. (4) To furnish and install a pump, motor, gasoline engine and appurtenances and housing for same at said tank at Alpaugh. (5) To construct concrete reservoir. (6) To furnish and lay approximately 193,500 feet of soil-proof riveted steel pipe, with necessary valves, fittings and appurtenances. (7) Repairing and regrading approximately 6.5 miles of earth canal. Plans and specifications for said work may be seen at the office of the undersigned. They may be obtained by addressing the undersigned and enclosing $10.00, which will be refunded upon return of plans. By order of the Board of Directors of the Alpaugh Irrigation District. W. T. HOLTON, Secretary, Alpaugh, California.

BRIDGE—Reinforced concrete, $100,000. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor Annear, Modesto. Consulting Engineers, Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. Plans prepared by County Engineer Annear for a new steel and concrete bridge over the Tuolumne River at Modesto, were adopted at the last meeting of the County Supervisors. Bids for the construction of the bridge will be opened by the Supervisors at 2 o'clock, May 9th. Owing to the present price of steel, which has advanced from $32 to $70 a ton, it is expected that the bridge will cost somewhere in the neighborhood of $100,000. The bridge will be 1250 feet in length, and will be of reinforced concrete. Plans may be had from the County Clerk at Modesto.

JAIL—1 story, concrete and brick. Cost not stated. Patterson, Stanislaus Co., Cal. Engineers, Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. Will cover an area of 46 by 22 feet and will contain a small court room besides the jail. Interior finish pine. Special cell work. Exterior faced with cement plaster. Plans complete

and figures being taken. Bids close May 9th.

STREET PAVING—Cost not stated. Merced, Merced Co., Cal. Engineer, City Engineer, Merced. Owners, City of Merced. At the last meeting of the City Trustees a resolution was adopted providing for the grading of 30th street, from M to V, with a macadam facing 20 feet wide, and also the grading of 14th street, from M to P; 15th street, from M to R; M street, from 13th to 15th; N street, from 13th to 15th; O street, from 12th to 15th, and as much of this covered with macadam as the funds will permit.

Contracts Awarded.

FURNISHING CEMENT—$2.83 per barrel. Fresno, Fresno Co., Cal. Engineer, County Surveyor, Fresno. Owners, Fresno County. Contractors, Santa Cruz Portland Cement Co., Crocker Bldg., S. F. Contract price, $2.83 per barrel.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA.

BRIDGE—Reinforced concrete and steel. Cost not stated. San Andreas, Calaveras Co., Cal. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. Bids will be received on May 1st for furnishing plans and specifications for a reinforced concrete bridge of the arch type over the Calaveras River between the towns of San Andreas and North Branch, in Calaveras County. All plans and specifications must meet the requirements of the State Highway Commission. Profile maps of the bridge site can be procured upon application to the Clerk of the Board of Supervisors.

BRIDGE—Reinforced concrete. Cost not stated. Woodland, Yolo Co., Cal. Engineer, County Surveyors of Yolo and Solano Counties. Owners, Solano and Yolo Counties. Bids will shortly be advertised for on the construction of a large reinforced concrete bridge to be erected over the Putah Creek by the counties of Solano and Yolo. A contract was awarded to the Clinton Fireproofing Co. of San Francisco about two years ago for approximately $60,000. The contractors naturally refuse to carry out the work on these figures owing to the raise in materials, which they claim has been nearly one-third. Further mention will be made of the work when bids are called.

CULVERTS — Reinforced concrete. Cost not stated. Ukiah, Mendocino Co., Cal. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. Bids will be opened on May 5th for construction of four concrete culverts to be constructed in the First Supervisorial District.

ROAD RECONSTRUCTION—Cost as follows. Oroville, Butte Co., Cal. Engineer, County Surveyor, Oroville. Owners, Butte County. At the last meeting of the Board of Supervisors bids on the rebuilding of 3½ miles of road between Biggs and Princeton were opened. The bids were as follows: The J. L. Mery Co., Woodland and Mary's Lane, Chico, bid $756 for the subgrade of sections 1, 2 and 3 and $204 for section 4. The Chico Construction Co., 408 Broadway, Chico, bid $150 for section 1, $100 for section 2, $125 for section 3 and $100 for section 4. The bids per cubic yard of rock were J. L. Mery Co., $2.44 for section 1, $2.50 for section 2, $2.98 for section 3, $4.26 for section 4. Chico Construction Co., $2.61 for section 1, $2.65 for section 2, $3.70 for section 3, $4.35 for section 4. The bids were taken under advisement.

STREET PAVING, ETC.—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Teichert & Son, Ochsner Bldg., Sacramento. Contract for the following work: Improving 17th street, between Q and R streets, by removing and disposing of all surplus and refuse material; constructing concrete curbs, manholes, 6-inch vitrified ironstone sewer pipe, etc., grading and an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches thick.

APARTMENT HOUSE—3 story and base. Class C construction. Cost not stated. Sacramento, Cal. Architect, Walter H. Parker, 12 Geary street, S. F. Owner, F. L. Atkinson. Location, 7th street between I and J, covering an area of 100 by 72 feet. Will contain a number of two and three room apartments. Interior finish pine and white enamel. Some hardwood floors. Steam heat and a hot water supply. Oil burning furnace. Bath rooms tile with composition floors. Hercules interlocking hollow tile walls. Exterior faced with cement plaster. Plans complete and owner taking figures.

RESIDENCE — 2 story and base, frame, $6,000. Woodland, Yolo Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. G. Stephens. Will contain eight rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BRIDGES — 2, reinforced concrete. Cost not stated. Willows, Glenn Co., Cal. Engineer, County Surveyor Knock, Willows, and Consulting Engineers Leonard & Day, Rialto Bldg., S. F. Owners, Glenn County. Bids are now being taken for the construction of two reinforced concrete bridges to be erected in Glenn County. Plans were prepared by Engineers Leonard & Day, Rialto Bldg., S. F. One of the bridges will be known as the Salt Creek bridge and the other as the Farrar Creek bridge. Plans can be secured from the office of County Surveyor Bayard Knock at Willows.

STREET PAVING—Cost not stated. Woodland, Yolo Co., Cal. Engineer, City Engineer, Woodland. Owners, City of Woodland. Bids were ordered received up to April 21st at 8 p. m., at the last meeting of the Council for the paving of First street from Main to Beamer. Plans may be had from the City Clerk.

LOS ANGELES & SOUTHERN CALIFORNIA.

BRIDGE—Steel and concrete. Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of Monday, May 1, 1916, for the construction of one 3-span standard 19 foot span wood trestle bridge, 20-foot roadway, over Ballona Creek on Mesa Drive extension in accordance with plans and specifications on file in the office of the Board.

BOILER AND PUMP EQUIPMENT—Cost not stated. Pasadena, Los Angeles Co., Cal. Engineer, City Engineer, Pasadena. Owners, City of Pasadena. Bids will be received by the City Clerk up to 10 a. m. Tuesday, April 25, 1916, for furnishing the city with the following boiler and pump equipment: Item 1, one water tube boiler, 200 pounds pressure, 6,000 square feet heating surface, 4-inch tubes, 100-degres F. superheater, Luckemheimer Excelsior gauge cocks, No. 1102 Nelson 300-pound blow-off, Hammell oil furnace and burners, 60-inch by 100-foot stack, etc. Item 2, one water tube boiler, 7,000 to 7,500 square feet heating surface. Item 3, separate bids for setting boilers in steel casings. Item 4, one 7-stage, high lift, centrifugal boiler feed pump, maximum 500 gallons per minute against 225 pounds head, cast iron bed plate, operated by motor, 75 H. P., 50-cycle, 3-phase, 2300 volt, polar wound, wound rotor, complete with starter, General Electric, Westinghouse, Allis-Chalmers, or equivalent equipment. Check for 10 per cent to accompany all bids. Heman Dyer is City Clerk.

BRIDGE—Reinforced concrete. Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. Plans and specifications prepared by the County Surveyor for the construction of a bridge across the Arroyo Grande Creek, near Oceano, on the Arroyo Grande and Cienega road, were approved by the County Supervisors at their last session and bids were ordered advertised for. Bids close May 4th, 10 a. m. Plans and specifications together with full information may be had from the County Clerk or County Engineer at San Luis Obispo.

SEWER SYSTEM—Cost not stated. Calexico, Imperial Co., Cal. Engineer, City Engineer, Calexico. Owners, City of Calexico. The Board of Trustees has instructed City Engineer H. W. Blaisdell to prepare surveys, plans and specifications for a proposed drainage storm sewer from the end of 6th street. The sewer will be for the purpose of carrying overflow and drainage waters to New River. All of the drainage, it is said, flows into 6th street, and the proposed extension would handle the problem for the entire city. Further mention will be made of this work.

RESIDENCE — 2 story and base, frame, $25,000. Pasadena, Los Angeles Co., Cal. Architect, A. D. Hill, 775 South Molino avenue, L. A. Owner, L. A. Olmsted. Location, Ridgeway and El Molino avenues. Will contain 13 rooms and 4 baths, sleeping porches and conservatory. Interior finish hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Central heating system and hot water circulating system. Open fire places and tile or brick mantels. Exterior finished with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Frank L. Meline, 7772 Hollywood Boulevard, L. A. Owner, Mr. Williamson. Location, Hollywood Boulevard and Martel. Will contain sixteen rooms and four baths, sleeping porches and servants' quarters. Interior finish hardwood, white enamel and

gum. Hardwood floors. Hot water heating system and hot water circulating system. Bath rooms tile. Showers. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor under the direction of the architect

RESIDENCE — 2 story and base, hollow tile. Cost not stated. Oak Knoll, Los Angeles Co., Cal. Architect, Regnald D. Johnson, Staats Bldg., L. A. Owner, Briggs C. Keck Co. Location, South El Molino avenue between Oak and Canyon. Will contain eleven rooms and three baths. Interior finish pine, gum and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Central heating system and hot water supply. Bath rooms finished in tile. Exterior covered with cement plaster. Plans being prepared.

STORES AND LOFTS—3 story and base. Class C construction. Cost not stated. Los Angeles, Cal. Architect, Fred R. Dorn, Marsh-Strong Bldg., L. A. Owners, Brown, Pallette & Brown. Location, Los Angeles, between 10th and 11th streets, covering an area of 60 by 140 feet. Will contain stores on the ground floor and a number of lofts on the upper two floors. Interior finish pine. Patent store fronts and marble bases. Elevator service and steam heat. Exterior faced with pressed brick. Plans complete and figures being taken.

CITY HALL—2 story and base, brick. Cost not stated. Burbank, Los Angeles Co., Cal. Architects, Jeffery & Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Will contain offices for the various city officials, library and quarters for the police and fire departments. Interior finish pine and hardwood. Maple floors. Central heating system. Fireproof vault. Special electric work. Exterior faced with pressed brick. Plans complete and figures being taken. Bids will be opened on May 4th.

HOTEL—10 story and base. Class A construction, $1,000,000. Ocean Park, Los Angeles Co., Cal. Architect, A. B. Rosenthal, Lankershim Bldg., L. A. Owner, Henry W. Schleuter. The hotel will extend over the ocean for a distance of 300 feet and is designed in the shape of a letter "E." The outer wings will be eight stories and the central portion, ten stories. The building will be 209x250 feet, and will contain over 600 guest rooms, each with private bath room, dressing room and closet. There will also be a lobby, 200x150 feet, banquet room 50x200 feet, ball room 50x200 feet, buffet 50x100 feet, Dutch grille 18x90 feet. The basement will contain a large cafe, plunge, gymnasium, showers, servants' rooms, etc.

HOSPITAL SERVICE BUILDING AND GIRLS' HALL—5 and 3 story and base. Class A construction. Cost not stated. Los Angeles, Cal. Architect, John Schulz, Wright and Callender Bldg., L. A. Owners, Los Angeles County. Location, County Hospital grounds. The service building will be 5 stories and cover an area of 73 by 110 feet, while the girls' hall will be 3 stories and cover an area of 110 by 150 feet. Complete steel frames and exterior walls of brick faced with pressed brick will be used. Interior will be finished in pine, hardwood and tile. Hollow tile interior partitions are specified. There will be four automatic elevators, three dumb waiters, steam heat, hot water supply, vacuum cleaning and oil burning plant. Plans are being prepared.

HOSPITAL ADDITIONS—2, 1 and 2 story, brick. Cost not stated. Los Angeles, Cal. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. Both the men's and women's wards will have an additional wing of 27 by 110 feet. Each will contain accommodations for 20 patients and the help. Exteriors will be faced with pressed brick. Plans are complete and figures will be called for shortly.

Contracts Awarded.

SEWER WORK—$149,347.80. El Centro, Imperial Co., Cal. Engineer, City Engineer, El Centro. Owners, City of El Centro. Contractor, James Kennedy, Washington Bldg., L. A. Contract price, $149,347.80.

SEWER CONSTRUCTION—$15,343.18. Calexico, Imperial Co., Cal. Engineer, City Engineer, Calexico. Owners, City of Calexico. Contractors, California-Arizona Construction Co., 1700 East Washington street, L. A. Contract price, $15,343.18.

WATER SYSTEM REPAIRS—$65,000 to $75,000. Hemet, Riverside Co., Cal. Engineer's name not given. Owner, W. F. Whittier, Hemet. The Lake Hemet Water Co. is preparing to rebuild four miles of 26-inch main flume and repair the entire system.

WATER SYSTEM EXTENSIONS — $21,764.48. Calexico, Imperial Co., Cal. Engineer, City Engineer, Calexico. Owners, City of Calexico. Contractors, Boyton & Co., 216 North Los Angeles street, L. A. Contract price, $21,764.18.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architect, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Owner, Miss Helen Cashman. Contractor, Frank L. Meline, 6772 Hollywood Boulevard, L. A. Contract price not stated.

STREET IMPROVEMENT — $18,000. Whittier, Los Angeles Co., Cal. Engineer, City Engineer, Whittier. Owners, City of Whittier. The S. C. Contracting Co. was the lowest bidder at about $18,000 for improving a portion of Lemon street.

HIGHWAY IMPROVEMENT—$19,700. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. The S. C. Contracting Co. was the lowest bidder at $19,700 for constructing concrete pavement on 1.51 miles of highway near Palo Verde station in Road Improvement District No. 61.

STREET PAVING—$17,193.38. Ventura, Ventura Co., Cal. Engineer, City Engineer, Ventura. Owners, City of Ventura. Contractors, Magill-Finley Co., Santa Ana. Contract price, $17,193.38.

BRIDGE—Reinforced concrete, $22,110. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, W. M. Ledbetter, Pacific Electric Bldg., L. A. Contract price, $22,110.

BRIDGE—Reinforced concrete, $10,036. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractor, G. E. Prehle, Santa Ana. Contract price, $10,036.

APARTMENT HOUSE—3 story and base. Class C construction, $46,000. Long Beach, Los Angeles Co., Cal. Architect, Frank H. Gentry, Union Oil Bldg., L. A. Owner, J. Wesley and Franklin Robinson. Contractor, Harry E. Martin, 625½ South Spring street, L. A. Contract price, $46,000.

SEATTLE AND WASHINGTON

WATER SYSTEM—$100,000. Raymond, Wash. Engineer, City Engineer D. Henry, Raymond. Owners, City of Raymond. City Engineer, D. Henry is making surveys for the construction of an extension and addition to the water system here. The work will consist of a reservoir for the distribution system, impounding reservoir and headworks and a seven-mile gravity line of 26-inch continuous wood stave pipe.

HOSPITAL—5 story and base, brick and stone, $90,000. Colfax, Wash. Architects, Beezer Bros., Northern Bank Bldg., Seattle. Owners, Sisters of Charity. Construction will be fireproof. There will be a large number of private rooms. One wing of the building will be occupied by the Sisters as living quarters. Interior will be finished in hardwood and tile. A central heating plant, probably steam heat will be installed. Bath rooms tile. Elevator service, vacuum cleaning, hot water supply and special plumbing. Exterior faced with pressed brick and cut stone. Plans being prepared.

Contracts Awarded.

STREET PAVING — $89,839. Walla Walla, Wash. Engineer, City Engineer, Walla Walla. Owners, City of Walla Walla. Contractors, Independent Asphalt Co., Seattle. Contract price, $89,839.

MYSTERY OF STEEL.

Our Modern Civilization is Based on a Freak of Nature.

It it were not for one tiny, erratic break in nature's orderly progression we should never have had the machinery that has brought about modern civilization. For we should not have had steel. It is true we should have had iron, but pure iron is almost useless. It is only when a small quantity of carbon is added to it that it becomes hard enough to take a cutting edge. Then it is called steel.

Why steel hardens is an unsolved problem. The Scientific American reproduces some extracts from an address before the British Institute of Mechanical Engineers, delivered by Professor Arnold, who has for many years been investigating the chemical and mechanical relations between iron, carbon and other metals, and Sir Robert Hadfield's experiments that called attention to this "break" in the order of nature which alone makes steel possible.

Nickel and cobalt are so closely related to iron in their properties and in their position in the periodic classification—atomic weights, specific gravity, fusing point and valence being almost the same—that it might be expected they would behave identically when united with carbon. Not so, however. Sir Robert Hadfield found that when the "steel" made of nickel and cobalt was heated or hammered the carbon came out of the composition and was precipitated as graphite. If iron behaved this way tool steel would turn to cast iron as soon as heated. And it is on the fact that it does not—"a seemingly quite erratic departure on nature's part from her orderly plan"—that modern manufacture is founded.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1009	Macdonald	Macdonald	400
1010	Stewart	Glunz	400
1011	Schmidt	Schmidt	1000
1012	Scoble	Scoble	12000
1013	Whitney	Vaughn	1000
1014	Johnson	Johnson	2800
1015	Little	Little	6000
1016	Overland	Leonard	275000
1017	Payne	De Luca	20000
1018	Same	Mealy	——
1019	Same	Sunset Iron	——
1020	Same	Bartholme	——
1021	Same	Bldrs' Supply	——
1022	Same	McCullum	——
1023	Same	Habenicht	——
1024	Same	Pinkerton	——
1025	Same	Peterson	——
1026	Same	Marconi	——
1027	Same	Huck	——
1028	Same	Brouillet	——
1029	Same	Ginsberg	——
1030	Same	Mission Marble	——
1031	Ford	Brode	4734
1032	Hueter	Brode	700
1033	Wallerstein	Koschnitzke	8118
1034	Ghirardelli	Petterson	16650
1035	Ruddock	Greene	7000
1036	Metzger	Lange	41590
1037	Same	Scott	8414
1038	Allen	Allen	5000
1039	Same	Same	4500
1040	Metro Inv	Metro Inv	750
1041	Same	Same	800
1042	Linebaugh	Linebaugh	4000
1043	Dahlin	Dahlin	3750
1044	Stiefel	Stiefel	5000
1045	Sudden	S F Art	425
1046	Greslat	McGlumphy	2207
1047	Cesar	Cook	2700
1048	Davini	Pastorini	2585
1049	Fugazi	Rudgear	13000
1050	Same	Machetti	1390
1051	Same	Brass	1093
1052	Same	Scott	7050
1053	Same	Clark	5950
1054	Same	Melbourne	41297
1055	Theall	Bryant	5300
1056	Assenti	Assenti	1000
1057	Alcoufre	Debrien	500
1058	Armstrong	Howe	400
1059	Clark	Clark	500
1060	American Can	Lindgren	8000
1061	Webster	Carson	400
1062	Brown	Terry	500
1063	Olsen	Evans	600
1064	Lyons	Becket	400
1065	Leventritt	Rector	291
1066	Boitano	Brandt	7450
1067	Levin	G G Iron	3990
1068	Galletta	Sangiacomo	2040
1069	Connell	Nelson	5933
1070	Lange	W'n Furnace	1413
1071	Same	Atlas Htg	1395
1072	Same	Central Elec	1575
1073	Same	Tozer	1700
1074	Same	Anderson	4091
1075	Same	Fay	3100
1076	Same	Klimm	5194
1077	Lange	Stewart	625
1078	Same	Sunset Iron	1278
1079	Same	Jorgensen	500
1080	Same	Eureka	425
1081	Same	Pike	496
1082	Same	Dresser	455
1083	Same	Holloway	594
1084	Same	Price	121
1085	Same	Spencer	1500
1086	de Urioste	Fuller	1560
1087	Allan	Clark	11330
1088	Same	Same	7944
1089	Simmons	Lindgren	40900
1090	Baumgartner	Williams	15339
1091	Western Pac	W'n Motor	——
1092	Southworth	Owner	2900
1093	Same	Same	2900
1094	Same	Same	2900
1095	Urban Rlty	Owner	6000
1096	Koenig	Koenig	3500
1097	Same	Same	3500
1098	Miller	Miller	2400
1099	Giannini	Duncanson	2500
1100	Lick	Lick	500
1101	Fitchen	Hanlon	450
1102	Bernard	Bernard	1000
1103	Kress	Kress	4000
1104	Hyett	Hyett	600
1105	Nightengale	Hillman	400
1106	Berthianne	Berthianne	400
1107	Clifford	Clifford	1200
1108	Dixon	Wilhelm	400
1109	Zimmer	Glaze	500
1110	Feedman	Heden	600
1111	Ehrhart	Murray	5000
1112	Ghirardelli	Morrison	11500
1113	Smith	Smith	2950
1114	Hampton	Carnahan	3788
1115	Wobber	Mager	6500
1116	Kelly	Anderson	5700
1117	Otis	Petersen	1449
1118	Wasserman	Petersen	2184

ALTERATIONS

(1009) NO. 1714 FILLMORE. Alter for lunch room.
Owner.....Graeme Macdonald, 29 New Montgomery, S. F.
Architect ...None.
Day's work. COST, $400

TERRAZZO STEPS

(1010) E MASONIC AVE 128 N Frederick. Terrazzo steps.
Owner.....C. N. Stewart, 1376 Masonic Ave., S. F.
Architect ...None.
Contractor..J. B. Glunz, 527 Balboa. San Francisco.
COST, $400

FRAME DWELLING

(1011) W ELLSWORTH 150 N Powhattan. One-story and basement frame dwelling.
Owner.....J. C. Schmidt, 91 Ellsworth San Francisco.
Architect ...None.
Day's work. COST, $1000

FRAME FLATS

(1012) NW CALIFORNIA & FIFTH Ave. Three-story and basement frame (6) flats.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $12,000

CONCRETE VAULT

(1013) NW HYDE AND McALLISTER. Reinforced concrete vault.
Owner.....Bancroft Whitney Co., Premises.
Architect ...None.
Contractor..H. G. Vaughn, 216 Foxcroft Bldg., S. F.
COST, $1000

FRAME DWELLING

(1014) W SIXTEENTH AVE 150 S Anza. Two-story and basement frame dwelling.
Owner.....Alfred Johnson, 433 24th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2800

FRAME RESIDENCE

(1015) W TWENTY-FOURTH AVE 175 S Lake. Two-story and basement frame residence.
Owner.....John Little, 1371 5th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $6000

BRICK STORES AND OFFICES

(1016) SW BUSH AND VAN NESS Ave. Two-story and basement brick stores and offices.
Owner.....The Overland Stores Co., Toledo, Ohio.
Architect ...Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio.
Contractor..Leonard Constr. Co., McCormick Bldg., Chicago.
COST, $275,000.

BRICK APARTMENTS

(1017) E LARKIN 103 N Geary. Concrete and cement work for three-story and basement brick (10) apartments and stores.
Owner.....Clyde S. Payne, 46 Kearny, San Francisco.
Architect ...W. G. Hind, 46 Kearny, San Francisco.
Contractor..R. De Luca, 2256 Jones, San Francisco.
COST of entire building, $20,000

(1018) BRICK WORK ON ABOVE.
Contractor..Mealy & Colline, 185 Stevenson, San Francisco.
COST, $——

(1019) IRON WORK ON ABOVE.
Contractor..Sunset Iron Works, 1124 Folsom, San Francisco.
COST, $——

(1020) SHEET METAL WORK ON above.
Contractor..Bartholme & Hartmanshenn.
COST, $——

(1021) MILL WORK ON ABOVE.
Contractor..Builders' Supply Depot, 42 8th, San Francisco.
COST, $——

(1022) LUMBER ON ABOVE.
Contractor..J. H. McCullum, 740 Bryant, San Francisco.
COST, $——

(1023) GLASS AND GLAZING ON above.
Contractor..Habenicht & Howlett, 525 Clay, San Francisco.
COST, $——

(1024) PLUMBING ON ABOVE.
Contractor..J. H. Pinkerton, 2266 Fulton, San Francisco.
COST, $——

(1025) HEATING & VENTILATING on above.
Contractor..Peterson-James Co., 710 Larkin, San Francisco.
COST, $——

(1026) PLASTERING ON ABOVE.
Contractor..J. Marconi, 737 Green, San Francisco.
COST, $——

(1027) PAINTING ON ABOVE.
Contractor..A. Huck, 59 Capp, S. F.
COST, $——

(1028) ELECTRIC WORK ON ABOVE
Contractor..Brouillet Elec. Co., 492 Castro, San Francisco.
COST, $——

(1029) TILE WORK ON ABOVE.
Contractor..S. Ginsberg, 1029 Larkin, San Francisco.
COST, $——

(1030) MARBLE WORK ON ABOVE.
Contractor..Mission Marble Co., 363 Guerrero, San Francisco.
COST, $——

IRON WORK
(1031) SE TREAT AVE & TWENTY-first. Miscellaneous and ornamental iron work for five-story reinforced concrete garage addition.
Owner.....Ford Motor Co., Premises.
Architect...Albert Kahn & Ernest Wilby, Detroit, Michigan.
Contractor..Brode Iron Works.
Not filed.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $4734
Bond, limit, forfeit, plans and specifications, none.

IRON WORK
(1032) W FILLMORE 103 N Sutter. Iron work for two-story and basement brick store and loft building.
Owner.....E. C. & O. M. Heuter, 816 Mission, San Francisco.
Architect...Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Higginson Co., Humboldt Bank Bldg., S. F.
Sub-Contractor..Brode Iron Works.
Not filed.
Progressive payments equal to 75%
Usual 35 days..... 25%
TOTAL COST, $700
Bond, limit, forfeit, plans and specifications, none.

FRAME FLATS
(1033) SE JACKSON AND BAKER 27-0¾x60. Grading, carpentry work and balanee of carpenter work under specifications, also electrical work for three-story frame flats.
Owner.....Ella Walterstein.
Architect...Plans by Contraetor.
Contractor..J. Koschnitzke, 1321 12th Ave., San Francisco.
Filed Apr. 8, '16. Dated Mar. 25, '16.
Frame up and roof on.....$1522.00
Brown coated 1522.00
Standing finish on interior.. 1522.00
Completed and accepted..... 1522.50
Usual 35 days..... 2029.50
TOTAL COST, $8118.00
Bond, $4060. Surety, National Surety Co. Limit, 90 days. Forfeit, $10. Plans and specifications filed.

CARPENTER WORK, ETC.
(1034) NW NORTH POINT & LARkin W 112-6 (412.6)x N 275. Carpenter, mill, cabinet, hardwood floors, hardware, glass, marble, tile, lath, plaster, east cement and cementing, dampproofing, ornamental iron, and stair work for three buildings.
Owner.....D. Ghirardelli Co., Inc., 941 North Point, San Francisco
Architect...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..Petterson & Persson, 110 Jessie, San Francisco.
Filed Apr. 8, '16. Dated Apr. 3, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $16,650
Bond, $8325. Surety, Fidelity & Deposit Co. of Maryland. Limit, not given Forfeit, $50. Plans and specifications filed.

CLASS "C" LOFT BUILDING
(1035) S GROVE 158-9½ W Polk W 24 S 120 E 48 N 40 W 24 N 80. All work for part one-story and part 2-story Class "C" loft building.
Owner.....Catherine W. Ruddock.
Architect...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..W. E. Greene, 1357 Oak, San Francisco.
Filed Apr. 8, '16. Dated Mar. 25, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $7000
Bond, $3500. Sureties, J. H. McCallum and E. O. Benner. Limit, 44 days. Forfeit, $5. Plans and specifications filed.

OFFICES
(1036) SW CALIFORNIA & DRUMM W 46-11½ S 94-4 NE 57-2½ N 60 m or l to beg. Concrete, fireproofing, plastering, roofing, carpenter and mill work for alterations and additions of four stories to present 8-story building, for offices.
Owner.....Louis Metzger, 58 Second, San Francisco.
Architect...Sylvain Schnaittacher, 233 Post, San Francisco.
Contractor..Lange & Bergstrom, Sharon Bldg., San Francisco.
Filed Apr. 8, '16. Dated Mar. 29, '16.
On 3rd of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $41,590
Bond, $20,795. Surety, The Aetna Accident & Liabiltiy Co. Limit, 95 days after steel frame for fireproofing is ready. Forfeit, $50. Plans and specifications filed.

(1037) PLUMBING AND HEATING on above.
Contractor..Scott Co., 243 Minna, S. F.
Filed Apr. 8, '16. Dated Mar. 29, '16.
Payments same as above.....
TOTAL COST, $8414
Bond, $4207. Surety, New Amsterdam Casualty Co. Limit, without delay. Forfeit, $50. Plans and specifications filed.

FRAME RESIDENCE
(1038) W TWENTY-EIGHTH AVE 131 N California. Two-story and basement frame residenee.
Owner.....Allen & Co., 125-127 Sutter, San Francisco.
Architect...Architectural Dept. of Owners, 125 Sutter, S. F.
Day's work. COST, $5000

FRAME RESIDENCE
(1039) W TWENTY-EIGHTH AVE 181 N California. Two-story and basement frame residence.
Owner.....Allen & Co., 125-127 Sutter, San Francisco.
Architect...Architectural Dept. of Owners, 125 Sutter, S. F.
Day's work. COST, $4500

ALTERATIONS
(1040) W FILLMORE 100 N Fell. New steps, plumbing, electric work, painting, etc.
Owner.....Metropolis Invst. Co., 333 Kearny, San Francisco.
Architect...None.
Day's work. COST, $750

ALTERATIONS
(1041) NE HOWARD ANL 20TH. New steps, bulkhead, sidewalks, etc.
Owner.....Metropolis Invst. Co., 333 Kearny, San Francisco.
Architect...None.
Day's work. COST, $800

FRAME FLATS
(1042) N ANZA 107-6 W Ninth Ave. Two-story and basement frame (2) flats.
Owner.....Chas. A. Linebaugh, 1860 Geary, San Francisco.
Architect...None.
Day's work. COST, $1000

FRAME FLATS
(1043) W SEVENTH AVE 125 N Judah Two-story and basement frame (2) flats.
Owner.....John A. Dahlin, 115 Judah, San Francisco.
Architect...None.
Day's work. Cost, $3750

FRAME FLATS
(1044) S JUDAH 95 W 5th Ave. Two-story and basement frame (2) flats.
Owner.....John V. Stiefel, 184 23rd Ave., San Francisco.
Architect...None.
Day's work. COST, $5000

RESIDENCE
(1045) N WASHINGTON 103 W Spruce N 127-8¼xW 62-6. Ceiling light over stair (as per sketch No. 672) in residence.
Owner.....Margaret E. Sudden, 62 Jordan Ave., San Francisco
Architect...G. A. Applegarth, Clans Spreckels Bldg., S. F.
Contractor..San Francisco Art Glass Co., 862 Mission, S. F.
Filed Apr. 10, '16. Dated Mar. 31, '16.
Monthly payments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $425
Bond, limit, forfeit, none. Plans and specifications, none.

RESIDENCE
(1046) LOT 13 NEW BLK NO. 1461, being on 33rd Ave 275 N Geary. All work for two-story and basement residence.
Owner.....E. H. Greslat, 6816 Geary, San Francisco.
Architect...None.
Contractor..Geo. McGlumphy and C. W. Agee, 2532 Geary, S. F.
Filed Apr. 10, '16. Dated Feb. 24, '16.
Frame up $551
Brown coated 551
Completed and accepted..... 551
Usual 35 days..... 554
TOTAL COST, $2207.50
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.
NOTE:—1st report Mar. 14th. No. 662

FRAME APARTMENTS
(1047) E UTAH 87-6 N 18th 25x100. All work exeept shades and electric fixtures for one-story and basement frame (2) apartments.
Owner.....Jacob and Anna Cesar, 2110 19th, San Francisco.
Architect...None.
Contractor..W. F. Cook, 723 Andover, San Francisco.
Filed Apr. 10, '16. Dated Apr. 3, '16.

Concrete work in and basement finished $405
Frame up 405
Enclosed 405
White cooaed 405
Completed and accepted..... 405
Usual 35 days..... 675
TOTAL COST, $2700

Bond, $1350. Sureties, Lizzie Hundemer and Alva E. Skelly. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1048) S HOLLISTER AVE 175 W Jennings 50x100. All work for one-story and basement frame residence.
Owner.....G. Davini, 352 Lombard, San Francisco.
Architect ...Louis Mastropasqua, 580 Washington, San Francisco
Contractor..L. Pastorini & A. Lindelli, 15 Carr, San Francisco.
Filed Apr. 10, '16. Dated Apr. 6, '16.
Frame up and roof on.....$646.25
1st coat plaster on..... 646.25
Completed and accepted..... 646.25
Usual 35 days..... 646.25
TOTAL COST, $2585.00

Bond, $1292.50. Surety, Ernest Ferrario Limit, 75 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1049) NW COLUMBUS AVE AND Montgomery NW 164-7¼ E 106-4 S 126-6. Ornamental iron and bronze work for alterations and additions to building adj. Hotel Louvre.
Owner.....Fugazi Banca Popolare Operaia Italiana, 2 Columbus Ave., San Francisco.
Architect ...Italo Zanolini, 604 Montgomery, San Francisco.
Contractor..Rudgear-Merle Co., Bay & Stockton, San Francisco.
Filed Apr. 10, '16. Dated Jan. 29, '16.
Payments of 60% monthly and 15% on completion and acceptance.....
Usual 35 days..... 25%
TOTAL COST, $13,000

Bond, $6500. Sureties, A. and A. E. Sbarboro. Limit, 210 days. Forfeit, $10. Plans and specifications filed.

(1050) PAINTING AND DECORATING on above.
Contractor..S. Machetto.
Filed Apr. 10, '16. Dated Jan. 29, '16.
Inside priming completed..... 25%
Outside priming completed.... 25%
Completed and accepted..... 25%
Usual 35 days..... 25%
TOTAL COST, $1390

Bond, $900. Surety, Hartford Accident & Indemnity Co. Limit, 210 days. Forfeit, $10. Plans and specifications filed.

(1051) LIGHTING FIXTURES ON above.
Contractor..Brass & Bronze Ornamental Art Mfg. Co., 1061 Mission, San Francisco.
Filed Apr. 10, '16. Dated Jan. 29, '16.
All material delivered.....$409.00
Completed and accepted..... 410.75
Usual 35 days..... 273.25
TOTAL COST, $1093.00

Bond, $547. Surety, Hartford Accident & Indemnity Co. Limit, 210 days. Forfeit, $10. Plans and specifications filed.

(1052) HEATING, PLUMBING AND gas fitting on above.
Contractor..Scott Co., 243 Minna, S. F.
Filed Apr. 10, '16. Dated Jan. 29, '16.
Payments of 75% as work progresses as follows:
All work delivered except radiators .....
Completed and accepted and radiators delivered .....
Usual 35 days..... 25%
TOTAL COST, $7050

Bond, $2655. Surety, New Amsterdam Casualty Co. Limit, 210 days. Forfeit, $10. Plans and specifications filed.

(1053) ARCHITECTURAL TERRA cotta work on above.
Contractor..N. Clark & Son, 116 Natoma, San Francisco.
Filed Apr. 10, '16. Dated Jan. 30, '16.
Terra cotta for Columbus Avenue front to 3rd story cornice delivered $1700
Balance of terra cotta delivered. 900
Completed and accepted..... 850
Usual 35 days..... 1500
TOTAL COST, $5950

Bond, none. Limit, 100 days. Forfeit, $10. Plans and specifications filed.

(1054) EXCAVATION, CONCRETE, brick and terra cotta setting, granite, plaster, carpenter, cabinet work, glazing and electric wiring on above.
Contractor..Frank J. Melbourne, 46 Kearny, San Francisco.
Filed Apr. 10, '16. Dated Feb. 7, '16.
Payments of 60% monthly.....
On completion 15%
Usual 35 days..... 25%
TOTAL COST, $41,297

Bond, $20,649. Surety, Guardian Casualty & Guaranty Co. Limit, 210 days. Forfeit, $10. Plans and specifications filed.
NOTE:—1st report Feb. 19th. No. 893

(1055) W NINTH AVE 100 N Cabrillo. All work for two-story and basement frame flats.
Owner.....Phoebe S. Theall, 4130 20th San Francisco.
Architect ...None.
Contractor..Arthur W. Bryant, 1372 9th Ave., San Francisco.
Filed Apr. 10, '16. Dated Apr. 4, '16.
Frame up $1325
Brown coated 1325
Completed and accepted..... 1325
Usual 35 days..... 1325
TOTAL COST, $5300

Bond, $2650. Sureties, R. H. Flaherty and T. Gainfford. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1056) NO. 278 STATES (rear). One-story and basement frame dwelling.
Owner.....Mrs. Louis Assenti, 247 States, San Francisco.
Architect ...None.
Day's work. COST, $1000

FRAME DWELLING
(1057) N EGBERT 75 E Hawes. One-story and basement frame dwlg.
Owner.....Jules Alcoufre, 1724 Revere San Francisco.
Architect ...None.
Contractor..A. Dehrien, 1733 Oakdale Ave., San Francisco.
COST, $500

ALTERATIONS
(1058) NOS. 2780-82-84 SACRAMENTO Brick chimneys, mantels, etc.
Owner.....J. H. Armstrong, 2786 Sacramento, San Francisco.
Architect ...None.
Contractor..V. C. Howe, 2207 Bush, San Francisco.
COST, $400

FRAME DWELLING
(1059) E PRENTISS 125 N Powhattan. One-story and basement frame dwlg.
Owner.....Bert T. Clark, 1334 Valencia, San Francisco.
Architect ...None.
Day's work. COST, $500

FRAME BOX FACTORY
(1060) E THIRD 382-1 N 22nd. One-story frame box factory.
Owner.....American Can Co., Mills Bldg., San Francisco.
Architect ...C. G. Preis, Cr. Owner.
Contractor..Lindgren Co., 954 Monadnock Bldg., S. F.
COST, $3000

ALTERATIONS
(1061) NO. 3740 CLAY. Alter for garage in basement.
Owner.....W. B. Webster, Premises.
Architect ...None.
Contractor..Geo. B. Carson & Sons, 219 32nd Ave., San Francisco.
COST, $400

ALTERATIONS
(1062) NO. 270 TWENTY-SIXTH AVE. Alter dwelling.
Owner.....Ralph C. Brown, 1437 Willard, San Francisco.
Architect ...None.
Contractor..Wm. L. Terry, 1456 Willard, San Francisco.
COST, $500

ALTERATIONS
(1063) E FOURTH AVE 80 N Hugo. Alter for flats.
Owner.....J. M. Olsen, 538 Douglass, San Francisco.
Architect ...None.
Contractor..Oliver Evans, 537 Naples, San Francisco.
COST, $600

ADDITION
(1064) NO. 32 ROMAIN. Add 3 rooms.
Owner.....Patrick D. Lyons, Premises
Architect ...None.
Contractor..M. Becket, 832 Corbett Ave., San Francisco.
COST, $400

RADIATORS
(1065) MISSION near 22nd. All work for 7 radiators connected with motor and fan for building.
Owner.....Marion Leventritt, New York City.
Architect ...G. Albert Lansburgh, 709 Mission, San Francisco.
Contractor..Rector System Gas Heating Co., 331 Sutter, S. F.
Filed Apr. 11, '16. Dated Apr. 10, '16.
Payments not given.....
TOTAL COST, $291

Bond, $150. Surety, The Fidelity & Deposit Co. of Maryland. Limit, 6 days after access to premises. Forfeit, none Specifications only filed.

FRAME MOTION PICTURE HOUSE
(1066) NW TWENTY-EIGHTH AND Church N 49xW 100. All work except electric work for frame motion picture house.
Owner.....Albert Rosa & L. Boltano, 626 Front, S. F.
Architect ...Welsh & Carey, Merchants National Bank Bldg., S. F.

Contractor..Brandt & Stevens, Hearst Bldg., San Francisco.
Filed Apr. 11, '16. Dated Apr. 10, '16.
Frame up $1862
Plastering finished 1862
Completed and accepted..... 1863
Usual 35 days..... 1863
TOTAL COST, $7450
Bond, $3725. Sureties, D. B. Macdonald and N. Capurro. Limit, 60 days. Forfeit, none. Plans and specifications filed

THEATRE
(1067) NW HAIGHT AND COLE. Structural steel and two fire escapes for alterations and additions to Haight Street Theatre.
Owner.....S. H. Levin.
Architect ...M. Mattanovich.
Contractor..Golden Gate Iron Works, 1541 Howard, S. F.
Filed Apr. 11, '16. Dated Apr. 5, '16.
On signing contract.....$ 500.00
Steel fabricated and delivered 1500.00
Steel erected in place..... 992.50
Usual 35 days..... 997.50
TOTAL COST, $3990.00
Bond, $1995. Surety, Guardian Casualty & Guaranty Co. Limit, June 27, 1916. Forfeit, none. Plans and specifications filed.

STORE BUILDING
(1068) S CALIFORNIA 107-6 E 13th Ave E 25xS 100. All work for one-story store building.
Owner.....John & Josephine Galletta.
Architect ...None.
Contractor..Guiseppe Sangiacomo, 459 9th Ave., San Francisco.
Filed Apr. 11, '16. Dated Apr. 10, '16.
On signing contract.....$900
Balance, $1140 in installments of $25 per month on 1st of each month .....
TOTAL COST, $2040
Bond, none. Limit, July 10. Forfeit, none. Plans and specifications filed.

RESIDENCES
(1069 W DIAMOND 163 N 20th N 50x W 125 H A 210. All work for two two-story and basement frame residences.
Owner.....Patrick Connell, 771 11th Ave., San Francisco.
Architect ...Plans by Contractor.
Contractor..P. Algot Nelson, 4333 19th, San Francisco.
Filed Apr. 11, '16. Dated Mar. 25, '16.
Roof and rustic on.....$1483.25
Brown coated 1483.25
Completed and accepted..... 1483.25
Usual 35 days..... 1483.25
TOTAL COST, $5933.00
Bond, $3600. Surety, The Aetna Accident & Liability Co. Limit, 120 days after April 1, 1916. Forfeit, $2.50. Plans and specifications, none.
NOTE:—One building is to be erected W Diamond 188 N 20th.

CLASS "C" APARTMENTS
(1070) N POST 62-6 E Leavenworth. Sheet metal work for five-story and basement Class "C" apartments.
Owner.....Lange & Bergstrom, Sharon Bldg., San Francisco.
Architect ...Chas. P. Weeks, Mutual Bank Bldg., S. F.
Contractor..Western Furnace & Cornice Co., 1645 Howard, San Francisco.
Filed Apr. 11, '16. Dated Mar. 16, '16.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1413
Bond, limit, forfeit, none. Plans and specifications filed.

(1071) HEATING, EXCEPT OIL burning system and tank on above.
Contractor..Atlas Heating & Ventilating Co., 4th & Freelon, S. F
Filed Apr. 11, '16. Dated Mar. 23, '16.
Payments same as above.....
TOTAL COST, $1395
Bond, limit, forfeit, none. Plans and specifications filed.

(1072) ELECTRIC WIRING ON ABOVE
Contractor..Central Elec. Co., 175 Jessie, San Francisco.
Filed Apr. 11, '16. Dated Mar. 16, '16.
Payments same as above.....
TOTAL COST, $1515
Bond, limit, forfeit, none. Plans and specifications filed.

(1073) PAINTING & PAPER HANGing on above.
Contractor..The Tozer Co., 228 Grant Ave., San Francisco.
Filed Apr. 11, '16. Dated Mar. 16, '16.
Payments same as above.....
TOTAL COST, $1700
Bond, limit, forfeit, none. Plans and specifications filed.

(1074) MILL WORK ON ABOVE.
Contractor..Anderson Bros. Planing Mill & Mfg. Co., 2399 Powell, S. F .
Filed Apr. 11, '16. Dated Mar. 29, '16.
Payments same as above.....
TOTAL COST, $4091
Bond, limit, forfeit, none. Plans and specifications filed.

(1075) LATHING & PLASTERING ON above.
Contractor..John Fay, 180 Jessie, S. F.
Filed Apr. 11, '16. Dated Mar. 16, '16.
Payments same as above.....
TOTAL COST, $3100
Bond, limit, forfeit, none. Plans and specifications filed.

(1076) PLUMBING, GAS FITTING & sewering on above.
Contractor..Frank J. Klimm, 221 Oak, San Francisco.
Filed Apr. 11, '16. Dated Mar. 16, '16.
Payments same as above.....
TOTAL COST, $5194
Bond, limit, forfeit, none. Plans and specifications filed.

CLASS "C" APARTMENTS
(1077) N POST 62-6 E Leavenworth. Stair work for five-story and basement Class "C" apartments.
Owner.....Lange & Bergstrom, Sharon Bldg., San Francisco.
Architect ...Chas. P. Weeks, Mutual Bank Bldg., S. F.
Contractor..J. K. Stewart, Army and Alabama, San Francisco.
Filed Apr. 11, '16. Dated Mar. 17, '16.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $625
Bond, limit, forfeit, none. Plans and specifications filed.

(1078) ORNAMENTAL & MISCELlaneous iron work, except reinforcing steel, elevator fronts and cage on above.
Contractor..Sunset Iron Works, 1124 Folsom, San Francisco.
Filed Apr. 11, '16. Dated Mar. 16, 1'6.
Payments same as above.....
TOTAL COST, $1278
Bond, limit, forfeit, none. Plans and specifications filed.

(1079) DUMB WAITERS ON ABOVE.
Contractor..C. Jorgensen & Co., 356 Market, San Francisco.
Filed Apr. 11, '16. Dated Mar. 21, '16.
Payments same as above.....
TOTAL COST, $500
Bond, limit, forfeit, none. Plans and specifications filed.

(1080) ELEVATOR CAR, ELEVATOR fronts and iron guards over sheaves in elevator shaft on above.
Contractor..Eureka Iron & Wire Wks., 374 11th, San Francisco.
Filed Apr. 11, '16. Dated Mar. 17, '16.
Payments same as above.....
TOTAL COST, $425
Bond, limit, forfeit, none. Plans and specifications filed.

(1081) FINISH HARDWARE ON above.
Contractor..A. W. Pike & Co., 711 Mission, San Francisco.
Filed Apr. 11, '16. Dated Mar. 21, '16.
Payments same as above.....
TOTAL COST, $496
Bond, limit, forfeit, none. Plans and specifications filed.

(1082) PATENT CHIMNEYS ON ABOVE
Contractor..Dresser, McDonell & Co., 34 Isis, San Francisco.
Filed Apr. 11, '16. Dated Mar. 21, '16.
Payments same as above.....
TOTAL COST, $455
Bond, limit, forfeit, none. Plans and specifications filed.

(1083) TILE FLOOR AND TILE SINK backs on above.
Contractor..Holloway Expanded Metal Co., 515 2nd, San Francisco
Filed Apr. 11, '16. Dated Mar. 22, '16.
Payments same as above.....
TOTAL COST, $594
Bond, limit, forfeit, none. Plans and specifications filed.

(1084) TAR AND GRAVEL ROOFING on above.
Contractor..Thos. H. Price Co., Monadnock Bldg., S. F.
Filed Apr. 11, '16. Dated Mar. 21, '16.
Payments same as above.....
TOTAL COST, $121
Bond, limit, forfeit, none. Plans and specifications filed.

(1085) ONE ELECTRIC PASSENGER elevator on above.
Contractor..Spencer Elevator Co., 128 Beale, San Francisco.
Filed Apr. 11, '16. Dated Jan. 27, '16.
On installation ..... ¼
Engine delivered ..... ¼
In complete running order..... ¼
Usual 35 days.....Balance
TOTAL COST, $1500
Bond, limit, forfeit, none. Plans and specifications filed.

APARTMENTS
(1086) NE VAN NESS AVE AND McAllister 120x109. Class and glazing for apartment building.
Owner.....Mrs. Hannah de Urioste.
Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.
Contractor..W. P. Fuller & Co., Beale and Mission, San Francisco.
Filed Apr. 11, '16. Dated Apr. 10, '16.
Glazing of windows and skylights finished $685
Finished and accepted..... 485

Usual 35 days..... 390
TOTAL COST, $1560
Bond, $780. Sureties, N. B. Wagner and H. H. Somers. Limit, as work progresses. Forfeit, $20. Specifications only filed.

FRAME RESIDENCES
(1087) W FORTY-THIRD AVE 31 S Cabrillo S 125 W 120 N 50 E 25 N 75 E 95. All work for five two-story frame residences.
Owner.....Martin Allan, 704 Sycamore Oakland.
Architect ...None.
Contractor..Samuel Clark, 1384 15th, Oakland.
Filed Apr. 11, '16. Dated Mar. 10, '16.
Frame up $662
Brown coated 662
Completed and accepted..... 662
Usual 35 days..... 662
TOTAL COST, $13,440
Bond, none. Limit, 120 days. Forfeit, $5. Plans and agreement filed.

FRAME RESIDENCES
(1088) E FORTY-THIRD AVE 25 S Cabrillo S 75xE 95. All work for three two-story frame residences.
Owner.....Martin Allan, 704 Sycamore Oakland.
Architect ...None.
Contractor..Samuel Clark, 1384 15th, Oakland.
Filed Apr. 11, '16. Dated Apr. 10, '16.
Frame up $662
Brown coated 662
Completed and accepted..... 662
Usual 35 days..... 662
TOTAL COST, $7944
Bond, none. Limit, 120 days. Forfeit, $5. Plans and agreement filed.

FACTORY BUILDING
(1089) SE NORTH POINT & POWELL E 206-3xS 275. All work (owner to furnish and install metal stairs and fire escapes and will furnish contractor the reinforcing rods for foundations and footings) for factory building.
Owner.....Simmons Co. of State of Delaware, 200 Bay, S. F.
Architect ...Owners.
Contractor..Lindgren Co., Monadnock Bldg., San Francisco.
Filed Apr. 12, '16. Dater Apr. 11, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $40,900
Bond, $20,500 Surety, California Casualty Co. Limit, 80 days from April 12. Forfeit, $25. Plans and specifications filed

FRAME DWELLING
(1090) N VALLEJO 55 W Baker W 55 xN 137-6. All work except painting, window shades, finish hardware, heating and light fixtures for two-story attic and basement frame dwlg.
Owner.....Mrs. J. J. Baumgartner, Vallejo near Baker, S. F.
Architect ...Louis M. Upton, 111 Ellis, San Francisco.
Contractor..Williams Bros. & Henderson, 447 Holbroook Bldg., San Francisco.
Filed Apr. 12, '16. Dated Apr. 11, '16.
As work progresses..... 75%
Completed and accepted.....$3835
TOTAL COST, $15,339
Bond, $7700. Surety, Casualty Co. of America. Limit, on or before Oct. 25, 1916. Forfeit, $15. Bonus, $15 per day. Plans and specifications filed.

FILLING AND GRADING
(1091) NAPOLEON ST., on a frontage of 550 feet at a point 380 W Connecticut. Filling and grading.
Owner.....Frank G. Dunn & Warren Olney Jr., receivers of Western Pacific Railway Co., Mills Bldg., S. F.
Architect ...None.
Contractor..Western Motor Draying Co., 351 Noe, S. F.
Filed Apr. 12, '16. Dated Mar. 29, '16.
Completed and accepted..... 75%
36 days after..... 25%
TOTAL COST, $1.50 per lineal foot.
Bond, none. Limit, 6 months from April 30, 1916. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1092) W GREENWICH 50 E Broderick Two-story and basement frame residence.
Owner.....F. B. Southworth, 607 1st National Bank Bldg., S. F.
Architect ...None.
Day's work. COST, $2900

FRAME RESIDENCE
(1093) W GREENWICH 75 E Broderick Two-story and basement frame residence.
Owner.....F. B. Southworth, 607 1st National Bank Bldg., S. F.
Architect ...None.
Day's work. COST, $2900

FRAME RESIDENCE
(1094) W GREENWICH 100 E Broderick. Two-story and basement frame residence.
Owner.....F. B. Southworth, 607 1st National Bank Bldg., S. F.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING
(1095) W URBANO DRIVE 260 S Moncada Way. Two-story and basement frame dwelling.
Owner.....Urban Realty Imp. Co., 85 Cerritos Ave., S. F.
Architect ...Jos. A. Leonard, 85 Cerritos Ave., San Francisco.
Day's work. COST, $6000

FRAME RESIDENCE
(1096) W TWELFTH AVE 197 N Cabrillo. Two-story and basement frame residence.
Owner.....Margaretha J. Koenig, 1108 Cabrillo, S. F.
Architect ...Wm. Koenig, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $3500

FRAME RESIDENCE
(1097) W TWELFTH AVE 169 N Cabrillo. Two-story and basement frame residence.
Owner.....Margaretha J. Koenig, 1108 Cabrillo, S. F.
Architect ...Wm. Koenig, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $3500

FRAME RESIDENCE
(1098) W TWENTY-EIGHTH AVE 175 N Clement. Two-story and basement frame residence.
Owner.....W. Miller, 2563 Clement, San Francisco.
Architect ...None.
Day's work. COST, $2400

(1099) SW MASON AND WATER. Excavate basement, underpin walls, lay cement floors in basement.
Owner.....A. P. Giannini Co., Bank of Italy Bldg., S. F.
Architect ...Paul F. De Martini, 212 Powell, San Francisco.
Contractor..Duncanson-Harrelson Co Chronicle Bldg., S. F.
COST, $250

ALTERATIONS
(1100). NO. 607 SAN BRUNO. Alte dwelling.
Owner.....E. W. Lick.
Architect ...August Nordin, 717 Mill Bldg., San Francisco.
Day's work. COST, $50

ALTERATIONS
(1101) NO. 1651 LA SALLE. Move alter and add to dwelling.
Owner.....Fred Fitchen, Premises.
Architect ...None.
Contractor..Frank Hanlon, 1007 Mendell, San Francisco.
COST, $45

ALTERATIONS
(1102) NO. 110 GOUGH. Alter fo tenements.
Owner.....Geo. F. Bernard, Premises
Architect ...None.
Day's work. COST, $100

FRAME RESIDENCE
(1103) W CRAFTON WAY 53 N E Portal Way. Two-story and basement frame residence.
Owner.....Miss Alma Kress.
Architect ...P. Righetti, 668 Phelar Bldg., San Francisco.
Day's work. COST, $400

FRAME DWELLING
(1104) E TEDDY 231 N Alpha. One-story and basement frame dwelling.
Owner.....C. B. Hyett, Bay Shore Hotel, San Francisco.
Architect ...None.
Day's work. COST, $600

ALTERATIONS
(1105) NO. 1612 MARKET. Enlarge and alter for stores.
Owner.....The Nightengale Estate, 300 Haight, S. F.
Architect ...None.
Contractor..E. F. Hillman, Premises.
COST, $400

REPAIRS
(1106) NOS. 19 AND 21 BOYCE. Plaster front and repair interior of dwlg.
Owner.....Frances C. Berthianne, Continental Hotel, S. F.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1107) S GERMANIA 80 E Steiner. Raise and alter flats.
Owner.....P. A. Clifford, 3220 16th, San Francisco.
Architect ...None.
Day's work. COST, $1200

FRAME SHED
(1108) S FULTON 150 W Fillmore. One-story frame shed.
Owner.....Helen C. Dixon, 915 Fulton, San Francisco.
Architect ...None.
Contractor..A. W. Wilhelm, 180 Jessie, San Francisco.
COST, $400

ADDITION
(1109) SW CLAY AND PRESIDIO AVE Add bath and bed room.
Owner.....— Zimmer.

Architect ...H. C. Smith, Humboldt Bank Bldg., S. F.
Contractor..R. Glaze, 1704 Humboldt Bank Bldg., S. F.
COST, $500

ALTERATIONS
(1110) NO. 244 ELSIE. Alter and repair dwelling.
Owner.....Jake Feedman, Premises.
Architect ...None.
Contractor..G. Heden, 155 Beaver, San Francisco.
COST, $600

FRAME RESIDENCE
(1111) LOT 14 FOREST HILL EXTENSION on Merced Ave. Two-story and basement frame residence.
Owner.....Ehrhart Constr. Co., 803 Hearst Bldg., S. F.
Architect ...David C. Coleman, Metropolis Bank Bldg., S. F.
Contractor..J. J. Murray, 803 Hearst Bldg., San Francisco.
COST, $5000

METAL WORK, ETC.
(1112) NW NORTH POINT AND LARKIN W 412-6xN 275. Tin, galvanized iron, metal work, asphalt and gravel roof, etc., for three buildings.
Owner.....D. Ghirardelli Co., Inc., 941 North Point, S. F.
Architect ...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..Morrison & Co., 769 McAllister, San Francisco.
Filed Apr. 13, '16. Dated Apr. 3, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $11,500
Bond, $5750. Surety, Fidelity & Deposit Co. of Maryland. Limit, none. Forfeit, $50. Plans and specifications filed.

FRAME RESIDENCE
(1113) N SAN YSABEL E of San Jose Ave., being Lot 16 Blk 'D" Mission Terrace. All work for two-story frame residence and garage.
Owner.....Francis and Wm. Smith.
Architect ...None.
Contractor..Smith Bros.
Filed Apr. 13, '16. Dated Apr. 12, '16.
Payments not given.....
TOTAL COST, $2950
Bond, none. Limit, 120 days after Mar. 20. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1114) SW FREDERICK & DOWNEY W 53-1½ S 106 W A 677. All work for alterations and additions to two frame buildings.
Owner.....Alfred Hampton, 348 Church, S. F.
Architect ...Chas. J. I. Devlin, Pacific Bldg., San Francisco.
Contractor..Carnahan & Mulford, 45 Kearny, San Francisco.
Filed Apr. 13, '16. Dated Apr. 7, '16.
On 1st and 15th of each month 75%
Usual 35 days, 25%.....$947
TOTAL COST, $3788
Bond, $1900. Surety, The Aetna Accident & Liability Co. Limit, 70 days. Forfeit, $25. Plans and specifications filed.

FRAME RESIDENCE
(1115) LOT 19 BLK 16, Forest Hill District. All work except furnace, finish hardware, shades, wall beds, electric light fixtures and wall paper for two-story and basement frame residence.
Owner.....May Wobber, 774 Market, San Francisco.
Architect...Albert Schroepfer, Foxcroft Bldg., San Francisco.
Contractor..Mager Bros., 110 Jessie, San Francisco.
Filed Apr. 13, '16. Dated Apr. 12, '16.
Frame up $1500
Brown coated 1500
Completed and accepted..... 1875
Usual 35 days..... 1625
TOTAL COST, $6500
Bond, $3250. Sureties, Wm. Camp and D. B. Macdonald. Limit, 75 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(1116) E FIFTEENTH AVE 100 N Fulton. All work for two-story frame flats.
Owner.....Catherine F. Kelly, 648 Hayes, San Francisco.
Architect ...None.
Contractor..O. E. Anderson, 248 18th Ave., San Francisco.
Filed Apr. 14, '16. Dated Apr. 12, '16.
Rough frame up and roof on....$1425
Rough plaster on..... 1425
Completed and accepted..... 1425
Usual 35 days..... 1425
TOTAL COST, $5700
Bond, limit, forfeit, none. Plans and specifications filed.

REINFORCED CONCRETE WORK
(1117) SE MARKET 75 SW Eighth SW 200 SE 275 NE 155 NW 105 NE 45 NW 170. Reinforced concrete work in the construction of reinforced concrete floor for alterations to seven-story and basement Class "B" building.
Owner.....James Otis Trustee, 310 California, San Francisco.
Architect ...Wright & Rushforth, 354 Pine, San Francisco.
Contractor..H. L. Petersen, 62 Post, San Francisco.
Filed Apr. 14, '16. Dated Apr. 12, '16.
Completed and accepted.....$1086
36 days after 363
TOTAL COST, $1449
Bond, $724.50. Surety, New Amsterdam Casualty Co. Limit, 21 days from date except removal of forms. Forfeit, $10. Plans and specifications filed.

STEAM BOILER, ETC.
(1118) NE CALIFORNIA AND WEBB E 63-3xN 137-6. Steam boiler, water heater and oil burning equipment for Pacific States Hotel Building.
Owner.....Edwin A. Wasserman, 563 Pacific Bldg., S. F.
Architect ...None.
Contractor..Petersen-James Co., 710 Larkin, San Francisco.
Filed Apr. 14, '16. Dated Apr. 13, '16.
Monthly payments of..... 75%
36 days after..... 25%
TOTAL COST, $2184
Bond, $1092. Surety, Guardian Casualty & Guaranty Co. Limit, May 13, 1916. Forfeit, $10. Plans and specifications filed.

LEASE.

Apr. 12, 1916—N HOWARD AND THIRD NW 70 NE 60 SE 15 NE 20 SE 55 SW 80. Mary A Swift to H Mottet and A Orteon, assigns April 25, 1911 by Auguste Orteon and Henry Mottet to Mottet Co., value received; assigned April 8, 1916 by Mottet Co to Mrs C M Fraser, value received.

Apr. 7, 1916—NO. 1601 BUCHANAN W line N Geary. Margaretha E Schroeder to Baptiste Dupony. 5 years. $2085.

Apr. 8, 1916—SE FRONT & PACIFIC E 275xS 120. Zeile Invst Co to F B Russi, John B Depaoli Geo J Lagomarsino and Armando V Brusco. 10 years. $750 per month.

Apr. 8, 1916—N TWENTY-SIXTH 70 E Dolores E 27-6xN 50; No. 3784 26th. William G McDearmid to Chas J Grisez. . year. $27.50 per month.

Apr. 10, 1916—W EIGHTH 215 m or l N Brannan N 60 m or l by W 110 m or l. Moses Ellis Trs Moses Ellis Real Estate Trust to John Traynor and Chas Harcourt. 5 years. $3600.

Apr. 12, 1916—NO. 1675 FOLSOM E line bet. 12th and 13th. C W Groth to Jno Zwissig. Sept. 1, 1918. $1137.50.

Apr. 12, 1916—NO. 1314 PAGE. Mrs L W Dabner to D C Talbot. 2 years. $33 per month.

INCORPORATIONS.

San Francisco Casing Co. Capital Stock, $10,000; subscribed, $10,000; shares, $100 each. Directors—C. W. Coey, 98 shares; G. A. Corey, E. Leonard 1 share each. Place of business, S. F.

The Thompson Valve Co. Capital Stock, $25,000; subscribed, $15; shares, $5 each. Directors—J. C. Thompson, J. R. Atchison, W. B. Lawrence, 1 share each. Place of business, S. F.

NOTICE OF NON-RESPONSIBILITY.

SAN FRANCISCO COUNTY.

Apr. 10, 1916—E FILLMORE 55 S Sutter S 55xE 93; No. 1740 Fillmore. Leonide G Auzerais as to improvements on leased property.....

Apr. 10, 1916—SW EDDY & TAYLOR W 137-6 (137.6) S 68-9 (68.9) E 137-6 (137.6) N to beg. Morris and Joseph Hyman as to improvements on leased property.....

Apr. 12, 1916—E MISSION 197 N 24th E 122-6xN 55. Melissa A Potter as to improvements on leased property

Apr. 12, 1916—SW PINE & POWELL W 275xS 137-6. Clara E L Folger as to improvements on leased property .....

ASSIGNMENT OF LIENS.

SAN FRANCISCO COUNTY.

Apr. 12, 1916—NE CALIFORNIA & Van Ness Ave 142-2½xE 100. Santa Fe Lumber Co; Bay Development Co and David Carroll to H H Brann

COMPLETION NOTICES

San Francisco

Apr. 8, 1916—NW ARLINGTON 154 SW Miguel SW 25xNW 100 Lot 28 Henaries Sub Blk 9, Fairmount Tct. William Miller to whom it may concern.....Apr. 4, 1916

Apr. 10, 1916—S WALLER 85 E Schrader E 25xS 100. O G Freyermuth for Schrader Estate Co to A Klahn & Son.....Apr. 10, 1916

Apr. 10, 1976—W COLLINS 315 N Geary N 25xW 123-0½. Jeanette Yates to whom it may concern.....
.....April 6, 1916

Apr. 10, 1916—N CARL, bet. Cole and Clayton; No. 40 Carl. Mrs E M M

Norton to L A Kern.....Apr. 10, 1916

Apr. 10, 1916—N GREEN 153-8 W Octavia N 137-6xW 29-6. Delia B Mahoney to Sjogren Bros....Apr. 8, 1916

Apr. 10, 1916—SW FOLSOM AND Twenty-sixth W 170 S 150-9¼ m or l S 86 deg 35 min E 175 m or l N 173. J W Kerr, John H Sammi, Geo W Reed, R V Lucy, Herman Van Luven and H T Harper as The Ed Trustees of Cogswell Polytechnical College to Western Iron Works... .....April 1, 1916

Apr. 10, 1916—E STEINER 35-2¼ S Jackson S 27-6xE 61-4. Sophie Grannis to whom it may concern.. .....April 7, 1916

Apr. 10, 1916—S VALLEJO 114-7 W Hyde W 22-11xS 137-6. Dirk Van Erf and Mary Van Erf (wife) to John G Chase Jr.....Apr. 8, 1916

Apr. 11, 1916—N GEARY 47-6 E Larkin E 40 N 137-6 — 27-6 S 57-6 W 12-6 S 80. H H Helhush to James S Fennell.....Apr. 4, 1916

Apr. 11, 1916—LOT 24 BLK 8, Crocker Amazon Tract. John Bjorkman to whom it may concern..Apr. 10, 1916

Apr. 11, 1916—E TWENTY-FIFTH Ave 100 N Anza N 25xE 120. Elmer E Clark to whom it may concern.. .....April 10, 1916

Apr. 11, 1916—W NINTH AVE 25 S Lake S 150 W 120 N 75 E 25 N 75 E 95. Percy R Tyler to whom it may concern.....April 11, 1916

Apr. 12, 1916—SW NINETEENTH AV and California 25x70 Sofie Leon to Martin Nolan.....Apr. 8, 1916

Apr. 12, 1916—W WARE 175 S Paul Ave S 25 W 112 NW 30-6¾ E 129 Lot 4 Ptn 12 Blk 7, Garden Tract Hd Ass'n. Homestead Realty Co to Wm H Grahn.....Apr. 10, 1916

Apr. 13, 1916—SE MISSION 200 NE Brazil Ave NE 25 SE 83-6 Ptn Lot 3 Blk 2 Excl Hd Ass'n. Fred A Steinmann to whom it may concern.....Apr. 1, 1916

Apr. 13, 1916—E VALENCIA 135 S 18th S 75xE 80. Richard J Glazier to Hansbrough-Johnston Co..... .....April 11, 1916

Apr. 13, 1916—E THIRTIETH AVE 125 N Clement N 25xE 120. Thomas Hamill to whom it may concern... .....April 13, 1916

Apr. 13, 1916—LOTS 32 AND 33 BLK 23, Forest Hill. Jane B and Horace H Allen to Higginson Co..Apr. 13, '16

Apr. 13, 1916—W FOURTH AVE 195-9 S Parnassus Ave S 25x120. Edward Cox to Cox Bros.. .....Apr. 12, 1916

Apr 14, 1916—LOT 32 BLK 2983 Claremont Court. Mabel R Mix to Barz & Hughes.....April 13, 1916

Apr. 14, 1916—NO. 2970 BROADWAY. Sidney M Ehrman to Stockholm & Allyn.....April 11, 1916

Apr. 14, 1916—NO. 275 O'FARRELL. Daniel Roth to Farrell & Reed..... .....April 12, 1916

Apr. 14, 1916—SE JONES & VALLEJO 61-6x137-6. H P Livermore to Marcus Marcussen.....Apr. 7, 1916

LIENS FILED

San Francisco

Apr. 8, 1916—N CALIFORNIA 110 E Broderick E 80xN 137-6. H Wachter vs J Sockolov and Sockolov Sons Co $1108.40

Apr. 10, 1916—N CALIFORNIA 110 E Broderick E 80xN 132-6. Hardwood Interior Co vs Sockolov Sons Co and J Sockolov $1075

Apr. 14, 1916—N BUSH 137-6 W Buchanan W 34-4½xN137-6. Emerick & Duncan Co vs Gertrude C Limac $106.16

Apr 14, 1916—N UNION 114-7 E Montgomery E 25 N 68-9 W 25 S 114-7. Q Scribante vs F Martinez, John Doe Calistol and Richard Roe (as Calistol & Co).....$27.75

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
856	Taylor	Taylor	1500
857	Pac Coast Can'g	Owner	1500
858	Anderson	Anderson	2000
859	Kinsey	Skaggs	6000
860	O'Connor	O'Connor	5000
861	Same	Same	5000
862	Same	Same	5000
863	Coward	Coward	3000
864	Miller	Vt. Marble	1400
865	Same	Gensler	3250
866	Same	Bay Eng	4046
867	Same	Schrader	4000
868	Same	Blake	2305
869	Same	Turner	2385
870	Same	Felt	5833
871	Marino	Brown	1570
872	Houch	Houch	3500
873	Kalohn	Schmidt	1000
874	Harris	Robson	800
875	Newsom	Spring	7750
876	Hanna	Cook	1500
877	Clifford	Clifford	1500
882	S P Co.	Ransome	——
883	Mayon	Fallmer	2250
887	United Bldrs	Owner	4500
889	Harris	Dunbar	400
890	Birch	Texdahl	400
891	Larsen	Larsen	2000
892	Venn	Venn	600
893	Hampel	Hampel	2300
894	George	Faulkes	3200
896	Newsom	Frostholm	3750
898	Green	Anderson	1175
899	Travel Shop	Bradshaw	400
900	Strang	Strang	1500
901	Hillen	Hillen	2000
902	Strang	Strang	10000
903	Lee	Lee	1600
904	Schnoor	Schnoor	4000
905	Bailey	Maruuise	1400
906	Periera	Scott	4000
908	Nemcook	Nemcook	1000
911	Salaviessa	Salaviessa	1000
912	Almeida	Silva	1350
913	Taylor	Wilson	5000
914	Ettore	Raineira	1000
915	Garretson	Garretson	4000
916	Myer	Myer	400
917	Henderson	Strang	4000
918	Jordan	Place	400
919	Smith	Smith	1000
920	Demepopolos	Corbett	400
921	Domoto	Domoto	550
922	Hood	Lindt	400

DWELLING

(856) E SEMINARY AVE 500 N Foothill Blvd, Oakland. One-story five-room dwelling.
Owner.....C. N. Taylor.
Architect ...None.
Day's work. COST, $1500

PLATFORM, ETC.

(857) NO. 1816 TWELFTH, Oakland. Platform and shed.
Owner.....Pacific Coast Canning Co., 1816 12th, Oakland.
Architect ...None.
Day's work. COST, $1500

DWELLING

(858) S AILEEN 106 W Adeline, Oakland. One-story 5-room dwelling.
Owner.....A. P. Anderson, 622 47th, Oakland.
Architect ...None.
Day's work. COST, $2000

APARTMENTS

(859) S SYCAMORE 300 E Grove, Oakland. Two-story 18-room apartments
Owner.....C. W. Kinsey, 649 Mariposa Oakland.
Architect ...None.
Contractor..J. H. Skaggs, 557 45th Oakland.
COST, $6000

DWELLING

(860) S CLEVELAND 100 E Spruce Oakland. Two-story 8-room dwlg.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $5000

DWELLING

(861) E ACACIA AVE 20 S Golden Gate Ave., Oakland. Two-story 9-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $5000

DWELLING

(862) W ACACIA AVE 100 S Golden Gate Ave., Oakland. Two-story 8-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $5000

DWELLING

(863) E ELSIE 55 N Chabot Road, Oakland. One-story 8-room dwlg.
Owner.....J. C. Coward, 6081 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $3000

CLASS "C" THEATRE

(864) E FRANKLIN 477.3 N 14th N 180.3xE 150, Oakland. Marble work for Class "C" theatre.
Owner.....William E. Miller Estate Co., Syndicate Bldg., Okd.
Architect ...Edw. T. Foulkes, Crocker Bldg., San Francisco.
Contractor..Vermont Marble Co., 244 Brannan, San Francisco.
Filed Apr. 8, '16. Dated Mar. 20, '16.
1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1400
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(865) ELECTRIC WORK ON ABOVE.
Contractor..J. Gensler.
Filed Apr. 8, '16. Dated Mar. 20, '16.
10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $3250
Bond, $1625. Surety, Massachusetts Bonding & Insurance Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(866) SHEET METAL AND HEATING on above.
Contractor..Bay Eng. Co., 889 Apgar, Oakland.
Filed Apr. 8, '16. Dated Mar. 1, '16.
Payments same as above.....
TOTAL COST, $4046
Bond, $2023. Surety, Guardian Casualty & Guaranty Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(867) STRUCTURAL STEEL AND ORnamental iron work on above.
Contractor..Schrader Iron Works, Inc., 1247 Harrison, S. F.
Filed Apr. 8, '16. Dated Feb. 28, '16.

Payments same as above.....
TOTAL COST, $4000
Bond, $2000. Surety, National Surety Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed

(868) PLUMBING, SEWER AND GAS fitting on above.
Contractor..L. W. Blake, 2125 10th Ave., Oakland.
Filed Apr. 8, '16. Dated Feb. 28, '16.
Payments same as above.....
TOTAL COST, $2035
Bond, $1160. Surety, U. S. Fidelity & Guaranty Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(869) AUTOMATIC SPRINKLER work on above.
Contractor..The Turner Co., 278 Natoma, San Francisco.
Filed Apr. 8, '16. Dated Mar. 2, '16.
Payments same as above.....
TOTAL COST, $2385
Bond, $1192.50. Surety, Massachusetts Bonding & Insurance Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

(870) FURRING, LATHING, PLASTER exterior work, etc., on above.
Contractor..R. D. Felt, 180 Jessie, S. F.
Filed Apr. 8, '16. Dated Mar. 3, '16.
Payments same as above.....
TOTAL COST, $5833
Bond, $2016.50. Surety, Massachusetts Bonding & Insurance Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

DWELLING
(871) N E-TWENTY-FOURTH 100 E 19th Ave., Oakland. One-story 5-room dwelling.
Owner.....Antonio C. Marino, 1921 E-25th, Oakland.
Architect ...None.
Contractor..M. Brown, 1922 E-14th, Oakland. COST, $1570

DWELLING
(872) S EDGEWOOD AVE 150 N Wellington, Oakland. Two-story 6-room dwelling.
Owner.....H. L. Houch, 4315 Everett Ave., Oakland.
Architect ...None.
Day's work. COST, $3500

ADDITION
(873) NO. 1845 THIRTY-EIGHTH AVE Oakland. Addition.
Owner.....Carl Kalohn, 424 Vernon, Piedmont.
Architect ...None.
Contractor..Carl Schmidt, 1614 Ward, Berkeley.
COST, $1000

ALTERATIONS
(874) NO. 1230 FILBERT, Oakland. Alterations.
Owner.....M. Harris, Premises.
Architect ...None.
Contractor..W. H. Robson, 1519 Chestnut, Oakland.
COST, $800

APARTMENTS
(875) E OAK 50 N 9th, Oakland. Three story 17-room apartments.
Owner.....Noble Newsom, Nevada Bk. Bldg., San Francisco.
Architect ...Sidney & Noble Newsom, Nevada Bank Bldg., S. F.
Contractor..Frank Spring, Thousand Oaks, Berkeley.
COST $7750

DWELLING ?
(876) S ELWOOD 300 E Mira Vista, Oakland. One-story 5-room dwlg.
Owner.....Elwood Hanna.
Architect ...None.
Contractor..L. T. Cook, 543 30th, Okd.
COST, $1500

DWELLING
(877) SW LAUREL AVE & DELAware, Oakland. One-story 5-room dwelling.
Owner.....J. B. Clifford, 3847 35th Ave., Oakland.
Architect ...None.
Day's work. COST, $1500

MANHOLES, ETC.
(882) MARKET from N line First to pt opp S property line owner. All work for 21 inch iron stone pipe conduit together with storm water inlets, manholes, etc., and lay pavement.
Owner.....Southern Pacific Co., 13th & Broadway, Oakland.
Architect ...None.
Contractor..Ransome-Crummey Co., 1st Svgs Bank Bldg., Oakland.
Filed Apr. 5, '16. Dated Mar. 14, '16.
Usual 35 days.....
TOTAL COST, conduit, $2.10 per front ft.; pavement, .025 per sq. ft.; oiled macadam, .105 per sq. ft.
Bond, $1200. Surety, Southern Surety Co. Limit, none. Forfeit, none. Plans only filed.

DWELLING
(883) SW ELWOOD AVE, being Ptn Lot 7 Blk "U" Map Revised Map Oakland Heights, Oakland. All work for one-story 6-room dwelling.
Owner.....H. Louise Mayon.
Architect ...None.
Contractor..Chasler F. Fallmer, 4034 Porter, Oakland.
Filed Apr. 10, '16. Dated Apr. 7, '16.
As work progresses and at completion and acceptance.....
TOTAL COST, $2250
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FLATS
(887) SE VICENTE & MIRANDA, Oakland. Two-story 12-room flats.
Owner.....United Home Bldrs, 1527 Broadway, Oakland.
Architect ...Hutchinson & McLean, 470 13th, Oakland.
Day's work. COST, $4500

DWELLING
(889) E EIGHTY-THIRD 200 N Birch, Oakland. One-story 3-room dwelling
Owner.....Mrs. M. Harris, 1476 82nd Ave., Oakland.
Architect ...None.
Contractor..W. J. Dunbar, 1476 82nd Ave., Oakland.
COST, $400

ALTERATIONS
(890) NO. 721 SIXTY-FIFTH, Oakland Alterations.
Owner.....Emil Birch, Premises.
Architect ...None.
Contractor..C. Texdahl, 3035 Harper, Berkeley.
COST, $400

DWELLING
(891) W THIRTIETH AVE 238 S E-14th, Oakland. One-story five-room dwelling.
Owner.....R. K. Larsen, 1205 30th Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(892) S "E" 40 E 86th Ave., Oakland. One-story 4-room dwelling.
Owner.....E. C. Venn, 817 Grove, Oakland.
Architect ...None.
Day's work. COST, $600

DWELLING
(893) N LOGAN 160 W Fruitvale Ave., Oakland. One-story 6-room dwlg.
Owner.....Edith Hampel, 1449 18th Ave., Oakland.
Architect ...None.
Day's work. COST, $2300

STORES
(894) SE E-FOURTEENTH & 84TH Ave., Oakland. One-story stores.
Owner.....H. F. George, Oakland.
Architect ...None.
Contractor..John R. Faukles, 9828 E-14th, Oakland.
COST, $3200

FRAME APARTMENTS
(896) E OAK 500 N Ninth 30x100, Oakland. Grading, concrete and forms, cement work, lumber, mill work, sash, glass and doors, rough hardware, set finish hardware, building paper, deadening quilt, cleaning up, corner beads and carpenter work and labor for three-story and basement frame apartments.
Owner.....Noble Newsom, Nevada Bk Bldg., San Francisco.
Architect ...Sidney A. and Noble Newsom, Nevada Bank Bldg., San Francisco.
Contractor..H. M. Frostholm, 6457 Colby, Oakland.
Filed Apr. 11, '16. Dated Mar. 10, '16.
Frame up and roof boards on.... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $3750
Bond, $1875. Surety, Maryland Casualty Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

ADDITION
(898) NO. 26 CROXTON AVE., Oakland. One-story addition.
Owner.....A. C. Green, 2935 Broadway Oakland.
Architect ...None.
Contractor..Wm. E. Anderson, 14 Croxton Ave., Oakland.
COST, $1175

ELECTRIC SIGN
(899) NO. 480 THIRTEENTH, Oakland. Electric sign.
Owner.....Travel Shop, Premises.
Architect ...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $400

DWELLING
(900) W TWENTY-THIRD AVE 60 N E-28th, Oakland. One-story 5-room dwelling.
Owner.....E. H. Strang, 3741 Elston Ave., Oakland.
Architect ...None.
Day's work. COST, $1500

DWELLING
(901) W VICKSBURG 233 S 50th Ave., Oakland. One-story 5-room dwlg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

APARTMENTS
(902) E OAK 60 S 10th, Oakland. Three-story 18-room apartments.
Owner.....V. N. Strang, 1521 9th, Alameda.
Architect ...None.
Day's work. COST, $10,000

DWELLING
(903) W LOMA VISTA 143 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....A. C. Lee, 1526 Morton, Alameda.
Architect ...None.
Day's work. COST, $1600

DWELLING
(904) N CHABOT ROAD 325 W Elsie Ave., Oakland. Two-story 8-room dwelling.
Owner.....P. Schnoor, 5905 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $4000

DWELLING
(905) N SHAFTER AVE 800 E College Ave., Oakland. One-story five-room dwelling.
Owner.....Clara E. Bailey, 5788 Shafter Ave., Oakland.
Architect ...None.
Contractor..E. M. Marquise, 2827 Russell, Berkeley. COST, $1400

ALTERATIONS
(906) SE EIGHTH AND WASHINGton, Oakland. Alterations to store.
Owner.....Frank Periera Realty Co., Premises.
Architect ...Wm. Wilde, 1725 Broadway, Oakland.
Contractor..G. A. Scott, 655 23rd, Okd. COST, $4000

DWELLING
(908) NO. 1145 WASHINGTON AVE., Albany. One-story 4-room dwelling.
Owner.....Peter Nemeook, Premises.
Architect ...None.
Day's work. COST, $1000

DWELLING
(911) E VICENTE 150 S 58th, Oakland One-story 5-room dwelling.
Owner.....J. Salvaviessa, 5471 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(912) S E-TWENTY-FIFTH 200 E 19th Ave., Oakland. One-story 5-room dwelling.
Owner.....L. Almeida, E-25th near 19th Ave., Oakland.
Architect ...None.
Contractor..Silva & Almeida, 2869 Ford, Oakland. COST, $1350

FRAME AND BRICK STORES
(913) NE TWENTY-SECOND AND Grove, Oakland. One-story frame and brick (5) stores.
Owner.....James P. Taylor, 433 13th, Oakland.
Architect ...None.
Contractor..F. J. Wilson, 96 Frisbie, Oakland. COST, $5000

DWELLING
(914) S VOLTAIRE AVE near Virgil, Oakland. One-story 4-room dwlg.
Owner.....E. Ettore, 2239 Magnolia, Oakland.
Architect ...None.
Contractor..D. Raineira, 4125 Market, Oakland. COST, $1000

DWELLING
(915) W BELLA VISTA AVE 95 N E-28th, Oakland. Two-story 7-room dwelling.
Owner.....John D. Garretson, Thomson Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg., Oakland.
Day's work. COST, $4000

DWELLING
(916) E NINETY-THIRD AVE 50 N "B," Oakland. One-story 2-room dwlg
Owner.....W. L. Myer, 507 Chestnut, Oakland.
Architect ...None.
Day's work. COST, $400

RESIDENCE
(917) S HIGHLAND, bet. Worchester and Oakland Aves., Piedmont. Two-story 8-room frame residence and garage.
Owner.....Mrs. Minnie E. Henderson.
Architect ...None.
Contractor..F. N. Strang, 805 Pacific Ave., Alameda. COST, $4000

ALTERATIONS
(918) NW TWENTIETH AND BROADway, Oakland. Alterations.
Owner.....Fred Jordan, Premises.
Architect ...None.
Contractor..N. W. Place, 473 20th, Okd. COST, $400

DWELLING
(919) SE CARLETON AND VAN ALstine, Oakland. One-story 4-room dwelling.
Owner.....Andrew J. Smith, San Leandro.
Architect ...None.
Day's work. COST, $1000

REPAIRS
(920) NO. 1107 BROADWAY, Oakland Fire repairs.
Owner.....James Demepopolos, Prem.
Architect ...None.
Contractor..Corbett & Bayliss, 1110 Franklin, Oakland. COST, $400

SHED
(921) W EIGHTIETH AVE 200 S Krause Ave., Oakland. Shed.
Owner.....Domoto Bros., 7921 Krause Ave., Oakland.
Architect ...None.
Day's work. COST, $550

ADDITION
(922) NO. 2454 E-TWENTY-THIRD, Oakland. Addition.
Owner.....Chas. B. Hood, Premises.
Architect ...None.
Contractor..O. F. Lindt, 2363 E-23rd, Oakland. COST, $400

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
878	Hoffer	Cushing	1000
879	Walsworth	Walsworth	900
880	Wolbold	Kollmer	4500
881	Cecil	Scott	3850
884	Woolsey	Broad	800
885	Mason	McDuffie	40-
886	Scott	Scott	500
888	Frickstad	Frickstad	1500
895	Warnes	Peterson	1500
907	Shaw	Jessiman	5045
909	Smitten	Franklin	400
910	Risher	Risher	2000
923	Miller	Miller	400
924	Pack	Scammon	1300
925	Oto	Scamman	2000
926	Peet	Pac Tank	4742
927	Welsh	Allen	12000

FRAME WAREHOUSE
(878) S ADDISON 40 E Acton, Berkeley. Two-story frame warehouse.
Owner.....August Hoffer, 2075 Center, Berkeley.
Architect ...None.
Contractor..E. D. Cushing, 841 Madison Berkeley. COST, $1000

DWELLING
(879) N DELAWARE 40 W Grant, Berkeley. One-story 4-room dwelling.
Owner.....S. L. Walworth, 1837 Hearst Ave., Berkeley.
Architect ...None.
Day's work. COST, $90(
DWELLING

(880) NW TERRACE WALK ANI Mariposa, Berkeley. Two-story seve room dwelling.
Owner.....J. H. Wolbold, 1709 Sonom Ave., Berkeley.
Architect ...None.
Contractor..Jacob Kollmer, 2813 Stuart Berkeley. COST, $450

FLATS
(881) E FULTON 50 S Ward, Berkele Two-story 12-room flats.
Owner.....B. B. & W. R. Cecil, 273 Fulton, Berkeley.
Architect ...None.
Contractor..John T. Scott, 2800 Fulto Berkeley. COST, $385

ALTERATIONS
(884) NO. 2178 SHATT'CK AVE., Berkeley. Alterations.
Owner.....W. E. Woolsey, Hotel Shattuck, Berkeley.
Architect ...None.
Contractor..A. H. Broad, 2117 Kittridg Berkeley. COST, $8

ADDITION
(885) 2829 PRINCE, Berkeley. Addition.
Owner.....Mason-McDuffie Co., Shattuck and Addison, Berkele
Architect ...H. H. Gutterson, 80 Pos San Francisco.
Day's work. COST, $4

PAINT SHOP
(886) FIFTH AND SNYDER AVE Berkeley. One-story 1-room pai shop.
Owner.....Hall Scott Motor Car C Premises.
Architect ...Edw. T. Foulkes, Crock Bldg., San Francisco.
Day's work. COST, $5

DWELLING
(888) W BAKER 75 N Irving, Berkel One-story 5-room dwelling.
Owner.....T. T. Frickstad, 21 Stuart, Berkeley.
Architect ...None.
Day's work. COST, $15

DWELLING
(895) W FIFTH 100 S Holyoke S 27x W 125, Berkeley. All work for one-story 5-room dwelling.
Owner.....Laures Warnes, Berkeley
Architect...None.
Contractor..J. E. Peterson, 2111 Byron, Berkeley.
Filed Apr. 11, '16. Dated Apr. 10, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1500
Bond, $750. Sureties, C. Hadlen and D. M. Newell. Limit, 90 days. Forfeit, none. Plans and specifications, none.

FRAME DWELLING
(907) LOT 4 BLK 1 Amended Map of Ptn La Loma Park and Wheeler Tct., Berkeley. All work except electric fixtures, shades and heating system for two-story frame dwelling.
Owner.....Chas. F. Shaw, 1509 Spruce, Berkeley.
Architect...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..John W. Jessiman, Virginia Apmnts, Piedmont.
Filed Apr. 11, '16. Dated Apr. 7, '16.
Frame up $1009
Rough plumbing and electric work completed 1009
Completed and accepted..... 1009
Usual 35 days..... 1009
TOTAL COST, $5045
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ADDITION
(909) NO. 1529 JOSEPHINE, Berkeley. Addition.
Owner.....H. M. Smitten, Premises.
Architect...None.
Contractor..John Franklin, 2321 Roosevelt, Berkeley.
COST, $400

DWELLING
(910) S HEARST AVE 100 E Grant, Berkeley. One-story 6-room dwelling
Owner.....Geo. Risher, 1814 Hearst Ave., Berkeley.
Architect...None.
Day's work. COST, $2000

REPAIRS
(923) NE SHATTUCK & ASHBY AVES, Berkeley. Repairs.
Owner.....J. D. Miller, 2717 Garber, Berkeley.
Architect...None.
Day's work. COST, $400

ADDITION
(924) NO. 1525 SPRUCE, Berkeley. Addition.
Owner.....Grace E. Pack, Premises.
Architect...None.
Contractor..C. F. Scammon, 1816 Addison, Berkeley.
COST, $1300

DWELLING
(925) S VIRGINIA 130 W McGee, Berkeley. One-story 5-room dwellling.
Owner.....A. Oto, 1801 McGee, Bkly.
Architect...None.
Contractor..C. F. Scammon, 1816 Addison, Berkeley.
COST, $2000

STEEL TOWER
(926) S CARLTON 100 W Sixth, Berkeley. Steel tower.
Owner.....Peet Bros. Mfg. Co., Carlton near 7th, Berkeley.
Architect...None.
Contractor..Pacific Tank & Pipe Co., 5th and Bryant, S. F.
COST, $4742

DWELLING
(927) W OAK KNOLL 150 N Avalon Ave., Berkeley. Two-story 10-room dwelling.
Owner.....Samuel B. Welsh, Shattuck Hotel, Berkeley.
Architect...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $12,000

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
897	Stossforth	.....Andresen	4035

STORES
(897) NE ENCINAL AVE AND VERsailles, Alameda. One-story stores.
Owner.....R. Stossforth.
Architect...None.
Contractor..H. C. Andresen, 433 California, San Francisco.
COST, $4035

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Apr. 11, 1916—W ½ AND W ½ OF E ½ of Sec 15 Tp 3 S Range 3 E Mt. Diablo Base & Meridian, containing 58 acres. Ella C Williams, May W Upson and R Reid as to improvements on leased property...

NOTICES OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

Apr. 11, 1916—S SEVENTEENTH 100 W Telegraph Ave W 100xS 105, Okd. Lillian Sparks Fuller, Wickham Havens and Walter H Leimert as to improvements on leased property .....
Apr. 12, 1916—(1) SW MOSS AVE 195.88 NW Walsworth Ave SW 111.13 NW 55; (2) NE 20th Lot 5 Blk "B" Map Flint Tract, Oakland. Rachel E E Cramer as to improvements on leased property.....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
Apr. 8, 1916—E 26.6 LOT 21 and all Lot 22 Blk "N" Map Blks M. N. O and P, Harmon Tract, Bkly. John D and Mae P Garretson to whom it may concern.....Mar. 31, 1916
Apr. 8, 1916—N PEARMAIN 150 W 107th Ave 25x 100, Okd. A F Cornwall to Jos Flittner.....Apr. 8, 1916
Apr. 8, 1916—60 W NW Cor. 55th and Grove N 95 W 20 N 40 W 40 S 135 E 60, Okd. H C Schlichting by Jas H Pedgrift to Schnebly Hostrawser & Pedgrift.....Apr. 8, 1916
Apr. 10, 1916—W 38.5 LOTS 17 & 18 Blk 3, Fairview Park, Okd. Edward W Larmer to whom it may concern .....Apr. 5, 1916
Apr. 10, 1916—NE 38 LOT 2 BLK 5 Map Blks 5 and 6 Piedmont Terrace, Piedmont. A C and Ella E Hull to O M Bullock.....Apr. 5, 1916
Apr. 11, 1916—LOT 12 AND NW 15 Lot 13 Map Showing Sbdvn Lots 12, 13, 29 and 30, Kingsland Tract, Brooklyn Tp. F J Mountain to whom it may concern....Apr. 1, 1916
Apr. 11, 1916—LOT 15 McMillan Tract, Okd. Elizabeth Palmtag to Louis Engler.....Apr. 8, 1916
Apr. 11, 1916—W ROSEDALE AVE 425 S Santa Rita Ave, Okd. John W Merritt to Harry C Knight.....
.....April 11, 1916
Apr. 11, 1916—LOT 79 North Court St., Pleasant Valley Court, Oakland. Silas O Hoxie to Harry C Knight..
.....March 29, 1916
Apr. 11, 1916—N SEVENTEENTH 550 E Grove N 100 E 90 S 66 SW 55.2 W 128.53, Okd. Louise Jatho, Charlotte E Elftman, Louise G Werner and C J Heeseman to Central Iron Works.....April 10, 1916
Apr. 13, 1916—S ALEXANDER COURT 185 W 35th Ave 35x120, Okd. A M Werum by A F Werum to W C Brown..... .....April 7, 1916
Apr. 13, 1916—LOTS 1 AND 7 BLK 13 Freed & Bancroft's Sbdvn of Ptn North Alameda Tract, Okd. Wm Black to whom it may concern.....
.....April 13, 1916
Apr. 13, 1916—LOT 15 BLK "B" Map Claremont Court, Bkly. Armantine M Van Winkle to Jacob House.....
.....April 3, 1916
Apr. 14 1916—E HOPKINS 125 W 14th Ave, Okd. Eunice G Wiser to whom it may concern.....Apr. 14, 1916
Apr. 14, 1916—LOT 1 BLK 4 Map North Cragmont, Okd Tp. Wm C Mason to whom it may concern...
.....April 14, 1916
Apr. 14, 1916—W 100 LOT 35 BLK 727 Map Resbdvn Ptns Blks 726-A, 727-A and 728-B, Oakland. Luigi Mignacco to Carlo Caretto..Apr 11, '16

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT
Apr. 4, 1916—LOTS 63 AND 64 BLK . Map No. 4, Regents Park, Albany.

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our new stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francirco**

Price Lumber & Mill Co vs Gustaf Johanson $105.65

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

FRAME RESIDENCE
HANCHETT PARK, near San Jose. All work except excavating, concrete foundations and furnace work for one-story frame residence.
Owner.....J. Bradley Clayton, 34 W-Santa Clara, San Jose.
Architect ...F. G. Aitkin, Theatre Bldg., San Jose.
Contractor..George Lindbloom, 519 W-Santa Clara, San Jose.
Filed Apr. 11, '16. Dated Apr. 7, '16.
Frame and roof completed....$898.75
Brown coat plaster on..... 898.75
Job completed 898.75
Usual 35 days..... 898.75
TOTAL COST, $3595.00
Bond, $1800. Sureties, E. W. Schnabel and Otto Schnabel. Limit, 80 days after foundations are done. Forfeit, none. Plans and specifications filed.

FRAME COTTAGE
N-THIRTEENTH in 400 block, San Jose. All work for one-story frame cottage.
Owner.....F. A. Souza.
Architect ...None.
Contractor..Edgar W. Wolford, 222 N-24th St., San Jose.
Filed Apr. 1, '16. Dated Feb. 21, '16.
All wages claims to be allowed weekly and 50% of contract price when 1st coat plastering is on..
5 days after completion.....Balance
TOTAL COST, $2110
Bond, limit, forfeit, plans and specifications none.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Apr 8, 1916—PTN PUEBLO LOT 11 of Pueblo Lands of San Jose. K C W Post to Howard Waltz.Mar. 30, '16

LIENS FILED.

SANTA CLARA COUNTY.

RECORDED AMOUNT
Apr. 7, 1916—SBDVNS 74 AND 75 of Clarke Ranch, Mayfield. Dudfield Lumber Co vs Spokane Stanford Land Co and Boden's Automatic Hammer Co.....$603.99

BUILDING CONTRACTS.

SAN MATEO COUNTY.

HARDWOOD FLOOR
"FILOLI," Cayada de Reymundo. All work for furnishing and installing hardwood floor in residence.
Owner.....W. B. Bourn, 375 Sutter, San Francisco.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..Inlaid Floor Co., 18th and Harrison, San Francisco.
Filed Apr. 8, '16. Dated Mar. 15, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $5975
Bond, $3000. Surety, New Amsterdam Casualty Co. Limit, Oct. 31, 1916. Forfeit, $15 per day. Specifications only filed.

FRAME BUNGALOW
LAUREL TERRACE, Redwood City. Trenching, concrete work, brick work, carpenter and mill work, tin work, etc., for one-story and basement frame bungalow.
Owner.....E. Serveau, 2112 Fillmore, San Francisco.
Architect ...Fabre & Bearwald, Merchants National Bank Bldg San Francisco.
Contractor..J. H. La Croix, Mayfield.
Filed Apr. 3, '16. Dated Mar. 31, '16.
Frame up $575
Brown plastered 575
When completed 575
Usual 35 days..... 575
TOTAL COST, $2300
Bond, $1150. Surety, American Surety Co. of New York. Limit, 80 days. Forfeit, $5 per day. Plans and specifications filed.

RESIDENCE
LOT 3 BLK 27 Easton Addition to Burlingame No. 2. All work except heating for two-story and basement residence.
Owner.....Mary F Houpt, Burlingame
Architect ...Will H. Toepke, 46 Kearny, San Francisco.
Coutractor..Croop & Keegan, San Mateo.
Filed Apr. 11, '16. Dated Apr. 8, '16.
Frame up $900
When plastered 900
When completed 900
Usual 35 days..... 900
TOTAL COST, $3600
Bond, $1800. Sureties, W. F. Boland and W. T. Croop. Limit, 65 days. Forfeit, $5 per day. Plans and specifications filed.

THEATRE
REDWOOD CITY. Concrete and cement work for reinforced store and theatre building.
Owner.....Mrs. Lydia Dugan, Belmont
Architect ...Will H. Toepke, 46 Kearny San Francisco.
Contractor..L. A. Rose, Monadnock Bldg., San Francisco.
Sub-Contractor..R. E. Johnston.
Filed Apr. 3, '16. Dated Mar. 31, '16.
Concrete poured to top of first beam $797.50
Concrete poured & trusses set. 797.50
When completed 797.50
Usual 35 days..... 797.50
TOTAL COST, $3190.00
Bond, $1600. Surety, A. Hess. Limit, 24 days. Forfeit, plans and specifications, none.

ALTERATIONS
PORTOLA. All work except painting and electric fixtures for alterations and additions to residence.
Owner.....E. R. Dimond, 310 Sansome, San Francisco.
Architect ...J. A. Miller, Lick Bldg., San Francisco.
Contractor..Weeden Bros., Menlo Park.
Filed Apr. 3, '16. Dated Mar. 30, '16.
On 1st and 15th of each month as work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $2500
Bond, $1250. Sureties, H. E. Hallett & F. H. Mighell. Limit, 45 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOT 13 Rochex Sub of San Mateo Park, San Mateo. All work for two-story frame residence.
Owner.....E. J. Chubbuck, 731 Market, San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Contractor..William McIntosh, 289 Cumberland, S. F.
Filed Apr. 4, '16. Dated Apr. 1, '16.
Frame up, etc.....$1073.75
Brown plastered 1073.75
Completed and accepted..... 1073.75
Usual 35 days..... 1073.75
TOTAL COST, $4295.00
Bond, $2150. Sureties, Ted J. Clark and Wm. Smith. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOT 36 BLK 100, South San Francisco. All work for one-story frame residence.
Owner.....South San Francisco Land & Improvement Co., South San Francisco.
Architect ...None.
Contractor..R. C. Stickle, San Bruno.
Filed Apr. 10, '16. Dated Apr. 6, '16.
Frame up $375
Rough plastered 375
When completed 375
Usual 35 days..... 375
TOTAL COST, $1500
Bond, $750. Sureties, Abbe P. Scott and S. Lombardi. Limit, 60 working days. Forfeit, $50 per day. Plans and specifications filed.

FRAME RESIDENCE
LOTS 3 AND 4 Map 3 Blk "E" of El Cerrito Park, Hillsboro. All work for two-story frame residence.
Owner.....Leslie Whitney, 126 10th St., San Mateo.
Architect ...William Knowles, Hearst Bldg., San Francisco.
Contractor..Thomas Elam & Son, 180 Jessie, San Francisco.
Filed Apr. 11, '16. Dated Apr. 8, '16.
On 1st and 15th of each month 90%
Usual 35 days, balance including contractor's commission of 10%..
TOTAL COST, $5000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
COR. DRAKE & CARMELITA STS., Burlingame. All work for one-story frame residence.
Owner.....A. E. Brown.
Architect ...A. E. Brown.
Contractor..H. H. Zwick, Burlingame.
Filed Apr. 1, '16. Dated Mar. 25, '16.
Frame up $460
Roofed and completed..... 415
Usual 35 days..... 350
TOTAL COST, $1225
Bond, $350. Surety, Mrs. H. H. Zwick. Limit, 60 days. Forfeit, none. Plans and specifications, none.

NOTICE OF NON-RESPONSIBILITY.

SAN MATEO COUNTY.

Apr. 3, 1916—"PEEK-A-BOO CAMP," La Honda. Manuel and Robert Silva to Frank E Johansen and Fred Bittencurt, Leesees, as to improvements on leased property.....

COMPLETION NOTICES.

SAN MATEO COUNTY.

ECORDED ACCEPTED
or. 12, 1916—LOT 25 Mission Street Land Co., Daly City. Terence and Elsie Colloty to Thomas McCormick .....April 8, 1916

LIENS FILED

SAN MATEO COUNTY.

ECORDED AMOUNT
ar. 31, 1916—ATHERTON. Anderson Bros Planing Mill & Mfg Co vs James G and Rose E Sharp and Curry.....$855
ar. 31, 1916—LOT 27 BLK 9 Sub No. 2 of Burlingame Park, Burlingame. Loop-Wisnom Lumber Co, $382.28; Hemmer & Hower, $70 vs J B Woolfrey and William Schinkel .....

RELEASE OF LIENS.

SAN MATEO COUNTY.

ECORDED AMOUNT
pr. 11, 1916—LOT 27 BLK 9 Burlingame Park, Burlingame. Charles Hemmer of Hemmer & Hower to William Shinkel.....$70
pr. 11, 1916—LOT 27 BLK 9 Burlingame Park, Burlingame. Loop-Wisnon Lumber Co to Wm Shinkel and J B Woolfrey.....$382.28

BUILDING CONTRACTS.

MARIN COUNTY.

'RAME BUILDING
ARKSPUR, Marin Co. All work for one-story frame building.
wner.....Alida Gunn.
upt. ...G. H. Cunningham.
'ontractor..Rudolph Leonhardt.
'iled Apr. 4, '16. Dated Mar. 30, '16.
Frame up 25%
When plastered 25%
When completed 25%
Usual 35 days..... 25%
TOTAL COST, $2750
Bond, none. Limit, forfeit, none. Plans and specifications filed.

DWELLING AND SHED
SAN ANSELMO. All work for building and shed
Owner.....James Leach, San Anselmo
Architect ...None.
Contractor..Richard Leach & Son, San Anselmo.
Filed Apr. 12, '16. Dated Mar. 3, '16.
Upon signing 25%
Rough coated 25%
Completed 25%
Usual 35 days..... 25%
TOTAL COST, $3000
Bond, limit, forfeit, none. Plans and specifications, none.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
Apr. 12, 1916—SAN ANSELMO. Ellis W Davidson to whom it may concern .....April 10, 1916

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

GARAGE
PITTSBURG, CAL. One-story interlocking tile garage.
Owner.....Wiegle & Ward, Pittsburg.
Architect ...None.
Contractor..George H. Field, Antioch, Cal. COST, $3000

COTTAGES
COWELL, CAL., on lots designated and staked out on ground. All work to complete to satisfaction of owners as per plans and specifications four cottages.
Owner.....Cowell Portland Cement Co., Cowell, Cal., and No. 2 Market, San Francisco.
Civil Eng. ...E. Q. Quinn, Cr of owner.
Contractor..C. C. Blair.
Filed Apr. 5, '16. Dated Apr. 1, '16.
Foundations in and frame up..$1185
Roofs on and brown coated..... 1185
Finished and accepted..... 1185
Usual 35 days..... 1185
TOTAL COST, $4740
Bond, $2370. Sureties, A. E. Blum and A. J. McMahon. Limit, within 60 days. Forfeit, none. Plans and specifications filed.

FRAME BUILDING, ETC.
NE GREEN AND WILLOW STS., Lots 5 and 6 Blk 24 of Additional Survey of Town of Martinez. Excavating, grading, concrete, glass, stairs, plumbing, hardwood floors, plastering, sheet metal, etc., for two-story and basement frame building and garage.
Owner.....A. E. Dunkel, Main and Ferry, Martinez, Cal.
Architect ...Alexander A. Cantin, 68 Post, San Francisco.
Contractor..Luke Bulger & Son, Castro and Green, Martinez.
Filed Mr. 18, '16. Dated Mar. 16, '16.
Frame up and rafters on.....$1218.75
Lathed inside and out..... 1218.75
Standing finish in place..... 1218.75
Completed and accepted..... 1218.75
Usual 35 days..... 1625.00
TOTAL COST, $6500.00
Bond, $3250. Sureties, J. H. Morrow & J. P. McNamara. Limit, within 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Mar. 31, 1916—PTN BLK 8 of Dimond Tract, Visitacion Valley. J W Wright & Co to whom it may concern.....Mar. 21, 1916
Apr. 1, 1916—PTN BLK 8, Dimond Tct Visitacion Valley. W L Laurence to T H Parry.....Mar. 27, 1916
Apr. 6, 1916—LOT 27 BLK 2 Crocker Estate Tct, Daly City. Mrs Esther and W N Rettiger to O E Evans & Co.....Mar. 27, 1916
Apr. 7, 1916—LOT 11 BLK 11 Stanford Park near Palo Alto. Rosa H Lyon to Douglas & Stevens..... .....April 5, 1916
Apr. 13, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to W P Fuller & Co, Apr. 8, 1916; and J H Keefe Co.....April 8, 1916
Apr. 13, 1916—"CAROLANDS," Hillsboro. Harriett Pullman Carolan to Rudgear-Merle Co.....Mar. 30, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

STORES
LOTS 1, 2 AND 3 BLK 95, Fresno. All work for stores.
Owner.....B. Poe, Fresno.
Architect ...None.
Contractor..A. Allen, 259 Blackstone St., Fresno.
COST, $11,550

DWELLING
LOTS 22, 23 AND 24 BLK 1 La Sierra Tract, Fresno. Dwelling.
Owner.....Central California Land & Improvement Co., 955 I St., Fresno.
Architect ...None.
Day's work. COST, $6500

DWELLING
LOTS 17 AND 18 BLK 2, La Sierra Tct., Fresno. Dwelling.
Owner.....Central California Land & Improvement Co., 955 I St., Fresno.
Architect ...None.
Day's work. COST, $3900

STORES
LOTS 13 AND 15 BLK 4, Woodward Addition, Fresno. Stores.
Owner.....M. M. Jelladin.
Architect ...None.
Day's work. COST, $1800

DWELLING
LOTS 27 AND 28 BLK 22, Fresno. Dwelling.
Owner.....Tony Deiso.
Architect ...None.
Contractor..G. Romano.
COST, $1600

DWELLING
LOTS 11 AND 12 BLK 56, East Fresno. Dwelling.
Owner.....C. R. Rabb, 635 F St., Fresno.
Architect ...None.
Contractor..Maxson & La Bounty.
COST, $1350

REPAIRS.
RAILROAD RESERVATION, bet. San Benito and Santa Clara Sts., Fresno. Repair warehouse.
Owner.....Associated Warehouse Co., H and San Benito Sts., Fresno.
Architect ...None.
Day's work. COST, $1500

BRICK AND CONCRETE BLDG.
75 FEET LOTS 1, 2, AND 3 BLK 95 (rear), Fresno. All work for one-story brick and concrete building and roof garden.
Owner.....Fresno Lodge No. 439, B. P. O. E.
Architect ...R. F. Felchin, 616 Rowell Bldg., Fresno.
Contractor..Axel Allen, 259 Blackstone St., Fresno.
Filed Apr. 11, '16. Dater Mar. 30, '16.
1st floor joists in place.....$2750
Plastered 2750
Completed 2750
Usual 35 days..... 3300
TOTAL COST, $11,500
Bond, $7000. Sureties, R. S. Wight and H. C. McKay. Limit, 70 working days. Forfeit, $10. Plans and specifications filed.

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED

Apr. 12, 1916—LOT 34 W 5 feet Lot 35 Blk 26 Belmont, Fresno. A S Longacre to whom it may concern .....April 11, 1916

Apr. 12, 1916—LOT 9 BLK 3 Alta Vista Tract, Fresno. W G Ackerman to whom it may concern..... .....April 8, 1916

Apr. 7, 1916—C or P AND TULARE Sts., Fresno. Jos Porteous to whom it may concern.....Apr. 1, 1916

Apr. 6, 1916—LOTS 4, 5, 12, 13 BLK 54, East Fresno. A W Goodfellow to whom it may concern.Mar. 28, 1916

E. J. Gearhart, 1314 I St., Fresno, has filed specifications for a bungalow to be erected on Lots 2 and 3 Blk 2 Mattewan Addition. Filed April 11, 1916.

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT

Apr. 7, 1916—LOT 30 E 10 feet Lot 29 Blk 1, Hartley Add'n, Fresno. C S Stanhope vs Mary F Hill.....$17

Apr. 10, 1916—66½ by 125 feet Lot 26, Blackstone Villa, Fresno. J R Arnold, $185; Eleazer Hill Jr, $185; J F Rodgers, $185 vs Eleazer Hill...

BUILDING CONTRACTS

SACRAMENTO COUNTY.

DWELLING

LOT 206 BLK "J" Oak Grove Tract, Sacramento. Dwelling.

Owner.....C. E. and Efma J. Pemberton, 3111 7th Ave., Sacramento.

Architevt ...None.

Contractor..W. T. Foster and W. F. Tovelle, 2901 35th St., Sacramento.

Filed Apr. 6, '16. Dated Jan. 8, '16.
COST, $2400

FRAME DWELLING

540 FEET LOTS 7 AND 8, Highland Park, Sacramento. Five-room frame dwelling.

Owner.....J. Schmid.

Architect ...None.

Contractor..Fred Funk, 2408 Carnegie Ave., Sacramento.
COST, $1700

NO. 323 SIXTEENTH ST., Sacramento. Extension to dairy barn.

Owner.....Albert Meister, Premises.

Architect ...None.

Contractor..G. W. McKay, 1018 T St., Sacramento.
COST, $500

FRAME DWELLING

LOT 1215 Wright & Kimbrough Tct No. 25, Sacramento. One-story frame dwelling.

Owner.....W. L. Evans, 1002 McCullough, Sacramento.

Architect ...None.

Contractor..C. J. Hopkinson, 1318 25th, Sacramento.

Filed Apr. 12, '16. Dated Apr. 11, '16.

FRAME DWELLING

NO. 2820 E ST., on E ½ Lot 3, E, F, 28th and 29th Sts., Sacramento. Five-room frame dwelling.

Owner.....John T. Lemhan, 1217 D St., Sacramento.

Architect ...None.

Contractor..Sacramento Home Bldrs., Foruma Bldg., Sacramento.
COST, $1700

REMODEL BUILDING

NOS. 117-119 J ST., on W 40 feet Lot 8 Blk 1, J, 1st and 2nd Sts., Sacramento. Remodel building.

Owner.....Wood-Curtis Co., 117 J St., Sacramento.

Architect ...None.

Contractor..A. W. Norris, 3012 G St., Sacramento.
COST, $1000

ALTERATIONS

NOS. 1009, 1011, 1013 AND 1015 J St., Sacramento. Alterations to three-story building and alterations to 2-story building.

Owner.....Katherine and Caroline Breuner.

Architect ...None.

Contractor..George D. Hudnutt, California Fruit Bldg., Sacramento.

Filed Apr. 10, '16. Dated Apr. 8, '16.
COST, $10,458

FRAME DWELLING

YARDLEY AVE, on Lot 1558 Wright & Kimbrough Tract No. 24, Sacramento. Five-room dwelling with sleeping porch.

Owner.....Jesse C. Meer, 2801 I St., Sacramento.

Architect ...None.

Contractor..R. M. Smith, 2017 18th St., Sacramento.
COST, $3775

FRAME RESIDENCE

LOT 60 Del Paso Vale, Sacramento. All work for two-story frame residence.

Owner.....A. R. Champlin.

Architect ...None.

Contractor..Chatterton Bros., 3126 T St. Court, Sacramento.

Filed Apr. 10, '16. Dated Apr. 8, '16.
COST, $3586

ALTERATIONS

NO. 811 E ST., Sacramento. Remodel interior of residence.

Owner.....Katherine Hyatt Estate.

Architect ...None.

Contractor..E. T. Schluckerbier, 2604 California Av., Sacramento
COST, $300

GOVERNMENT PUBLICATIONS FOR SALE.

The following are some of the publications received in stock for sale by the superintendent of documents at Washington during the week ended March 18:

Modern Practice in the Construction and Maintenance of Rail Joints and Bonds in Electric Railways, Standards Technologic Paper 62.—Covers historical and general discussion of bonds and joints, types, cross bonding, welded joints, and general information. Price paper, 35 cents.

CALIFORNIA SUCCESSFUL AT BRAZIL'S FRUIT EXHIBIT.

RIO DE JANEIRO, Brazil.—At the recent fruit exposition held at the Campo de Santa Anna in Rio de Janeiro the gold medal, the highest prize offered, was awarded by the jury to an American exhibit—that of the California Raisin Growers' Association of Fresno, Cal.

The exposition was the first of the sort that has been held in Rio de Janeiro. It was devoted chiefly to native fruits, and the California prize-winning display was the only one received from the United States. A special "United States day" was designated and was productive of a large attendance of Americans.

[A copy of the letter in which the award of the gold medal was made, accompanied by photographs of the exhibit of the California Associated Raisin Co., may be inspected at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 73898.]

HUGE BRIDGE TO SPAN SAN FRANCISCO BAY.

OAKLAND, Cal.—The construction of a $20,000,000 bridge across San Francisco bay, connecting San Francisco and Alameda counties is a possibility of the future, according to an announcement made in which it was stated that the plans for the bridge had been made and that the chambers of commerce of San Francisco, Oakland, Alameda and Berkeley were interested in the project.

The plans, prepared by Harlan D. Miller, a New York engineer, were submitted recently at a meeting of representatives of the four chambers of commeree and received the endorsement as to their practicability, it was announced, of Colonel Thomas H. Rees, U. S. A., of the United States board of harbor engineers.

The proposed bridge would be four miles and of an aveerge height of 30 feet above the water. The greatest altitude of the bridge would be 125 feet at one place to permit the passage of lofty sparred sailing vessels. The plans provide for four railroad tracks and two roadways, one for automobiles and the other for slower moving vehicular traffic.

SMALL TOWN PLANS BIG IMPROVEMENTS.

ROSS, Marin Co., Cal.—The town of Ross is to have improved streets, and according to plans and specifications being prepared by the City Trustees, the proposed improvements will cost $18,000. The cost of the work will be financed under a bond issue, a date for which will be set in the near future.

It is the intention of the trustees to utilize the present streets and to call for bids for either a Topeka surface of several inches or for spreading oil on a hot crushed rock surface.

LADIES NIGHT AT THE GENERAL CONTRACTORS' ASSOCIATION.

The entertainment committee of the General Contractors' Association, consisting of Mr. P. J. Lynch, chairman, and Messrs Pape, Morrison, Lawson and Guyett, have decided to hold a ladies' night entertainment on the evening of the 29th inst. in the Association's quarters.

An evening of social enjoyment is promised, full to the brim. There will be a two-hour program overflowing with merriment, followed by a dance afterwards which will be featured with fancy dances by experts. Mr. Pape is

immediate charge of the program, nd if his ideas are carried out, the rabian Thousand and One Nights will ade into insignificance. He is in tele-athic correspondence with the leading ellar celebrities of the country, in-luding Clarence Pratt of international oncrete Mix fame, and the array of alent will be unexcelled. Mr. Lawson ill have charge of the light refresh-ents served during the evening, and he gastronomical end of it is an as-ured success. As head of the recep-ion and floor committee, Mr. Guyett roposes to find twenty or thirty mem-ers as handsome as himself to assist n extending the glad hand. If it is mpossible to obtain twenty, he will ake ten, but they must measure up to is standard of facial elegance. Chair-nan Lynch is smilingly satisfied that is committee is going to pull off one f the biggest stunts in the building usiness. Watch his smile.

MAMMOTH DEPARTMENT STORE.

WINNIPEG, MANITOBA.—Plans and specifications have been prepared by Graham, Burnham & Co., architects, Chicago, for an elaborate layout of buildings for the T. Eaton Co. (Ltd.), of Winnipeg. The scheme will comprise a series of connecting structures, 12 stories in height, replacing the present 9-story building. When completed the premises will cover an additional city block. Two bridges, 38 feet from the ground and 9 stories high and sundry tunnels under streets will connect the buildings.

The buildings will be of Tyndall stone from the ground to the top of the second story; the remaining stories will be of buff-face brick. The basement will be 18 feet in height, ground floor 20 feet, the second floor 18 feet, and the rest of the floors to the ninth, 17 feet; then will come four floors 16 feet. The structures will be thoroughly fireproof, with stairs and elevators inclosed, sprinkler system, conveyers, and the most modern equipment devised for department-store convenience.

Work to Extend Over Eight or Ten Years.

The work will be done in units, the entire scheme to be completed in 8 or 10 years. The section to be erected during 1916 will be the warehouse; the foundations are designed for a 12-story building, eight of which will be built this year. It will have three fireproof stairways, two 12-ton elevators, with platforms of sufficient size to accommodate large loaded motor trucks, two freight elevators of 7,000 pounds capacity each, and two others for combination freight and passenger service. Spiral chutes will be installed for conveying packages to the main floor and basement, belt conveyances being used for bringing goods over from the main store through one of the tunnels. In fact every modern labor-saving contrivance will be installed. The probable cost will be $6,000,000 to $8,000,000.

The project in its entirety is a vast one, indicating the confidence this concern has in the future development of the West. Several large contracting firms in United States and Canada are submitting tenders. Considerable quantities of American material will be required in the work.

THE REAL CENTRAL AMERICA.

WASHINGTON, D. C., Apr. 3, 1916—Central America as it really is, as a thriving and progressive section of our hemisphere, rich beyond measure in resources that have only been scratched, is the subject of a new handbook issued by the Bureau of Foreign and Domestic Commerce, of the Department of Commerce. Romantic soldiers of fortune and exciting revolutions have been entirely overlooked by the author, Mr. Garrard Harris, who, however, has furnished interesting reading in his stories of the agricultural, industrial, and commercial revolutions that have brought about so many important changes in Central America in recent years.

The author is concerned largely with the prospects for American trade and American capital in this promising region, which actually covers more square miles than the combined area of the whole of New England, New York, Pennsylvania, New Jersey, Maryland, and Ohio. He finds that we already sell about 50 per cent of the goods imported, but is strongly of the opinion that a much bigger percentage of the business should be done by Americans as a result of present opportunities. To make the most of these opportunities, however, Mr. Harris declares it will be necessary to invest more American capital in the republics, to extend more liberal credits, to improve banking facilities for export trade, and to make more direct and personal efforts in the markets.

American trade with Guatemala is an example of what investment in a foreign country can do toward promoting trade with that country. American capital has been invested freely in the banana industry in Guatemala and practically all the supplies needed by the fruit companies and their employees have been imported from the United States. A very cordial feeling has been developed in Guatemala toward the United States. The desire for a closer social and commercial relationship between the two countries is evident. Many of the younger generation are being educated in the United States instead of in Europe, as formerly, and the number of young people who speak English and have acquired an understanding of the American point of view is steadily increasing. The value of trade as a means of bringing nations closer socially and politically is too seldom taken into consideration, in the opinion of Mr. Harris.

Among the many subjects discussed in connection with the methods to be employed in seeking Central American trade is that of language. Letters addressed to Central American dealers should be put into good Spanish by some person thoroughly educated in the language and familiar with the best forms of business correspondence. Technical terms and Americanisms should be avoided. The harm that some of our innocent Americanisms can do abroad is well illustrated by the fate of the brand of condensed milk which bore the notice "Made at our plant." To the English-speaking population of British Honduras this meant that the milk was artificial and made from a plant. They would have nothing to do with it. The label was changed and the brand is now popular. Such Americanisms are probably even more mystifying to the Spanish-speaking population.

The report takes up each Central American country in turn and describes its physical features and climate, the character of the population, and the means of communication. It then takes up the agricultural, timber, and mining resources and the manufacturing industries, and follows this by a general description of the Government, a sketch of the banking system, and a statistical study of the foreign trade. The section devoted to each country is closed by an outline of the future prospects of trade and business in that country, and a list of specific commercial openings. There are three appendices: The first, a description of a practical route through Central America for commercial travelers; the second, regulations affecting commercial travelers; and the third, a list of publications concerning Central America.

The exact title of the new handbook is "Central America as an Export Field," Special Agents Series No. 113. It contains 229 pages, including seven half-tone illustrations and one map, and is for sale at the nominal price of 30 cents by the district office of the Bureau of Foreign and Domestic Commerce and by the Superintendent of Documents, Government Printing Office, Washington.

SANITARY HANDLING OF TIMBERS.

Wood Infected With Rot-Producing Fungi During Storage is a Serious Danger to the Building Industry.

(From the U. S. Department of Agriculture.)

For ages past wood has been one of the most important materials for building purposes and until the introduction of steel and concrete was almost exclusively used in forested regions. The native forests of the United States were originally much richer than now in highly durable timbers. A century and a quarter of rapid commercial development have depleted them of certain of their choicest timber species and resulted in a constantly-increasing utilization of material less resistant to tention in merchandizing in order to supply a clean, sanitary product to the consumer. The problems of human health and timber health have much in common. A vigorous man may be, and often has been, likened to the sturdy white oak-resistant to disease; while the weaklings of humanity are, like our poorer kinds of wood, susceptible to whatever disease germs they may come decay.

This necessitates more carfeul at-in contact with.

One of the most important problems confronting the lumberman, then, is the storage and marketing of his produce in as sanitary a manner as possible, both to prevent direct loss to himself through deterioration of his wares, and to protect the consumer against many avoidable outbreaks of rot after the timber is incorporated into buildings.

The investigations of this Department during the past two years have revealed many deplorable conditions in the storage of timber and, coincident with these, have disclosed many serious outbreaks of rot in important structures. While many of these cases of rot in buildings may be due to faulty

construction, particularly to insufficient seasoning of the timber before use and to the failure to provide for sufficient ventilation in basements, the fact remains that infected timbers placed in buildings are far more likely to cause trouble than sound ones.

Why Wood Rots.

Decay is due to the growth of wood-destroying fungi through the timber. These fungi consist of fine cotton-like threads which penetrate the wood cells and by the secretion of ferments dissolve many of the constituents of the wood. For their most active growth the timber must be moist and the temperature favorable. The true dry rot fungus (Merulius lachrymans), the most destructive fungus in buildings, grows best at 72 degrees to 75 degrees Fahrenheit, but there are many others which thrive best at 78 deg. to 80 deg.

Poor ventilation favors rot by not allowing the timber to come to an air-dry condition quickly enough to prevent the development of the fungi.

The spread of wood-destroying fungi may occur in two ways:

1. By the continuation of growth from an infected stick to a sound one in contact with it.

2. By the production of spores (bodies comparable in every way to ordinary seeds, but much smaller) which are blown about by air currents and, lodging on moist sound timber of a kind susceptible to decay, germinate and start a new infection.

Conditions Which Favor Decay in Lumber Yards.

Many lumber yards are very lax in keeping the premises free of rotting debris which serves as a breeding ground for serious fungi, and hence a constant source of infection for sound lumber. Other dangerous sources of decay are:

1. The rather common practice, particularly at sawmills in the coastal regions, of piling timber over swampy land, subject to floors or tides, or so constantly wet as to make it very difficult or impossible to keep down the rank growth of weeds and grasses which cut off the air circulation and prevent the proper drying of the lumber.

2. Piling sticks which are thrown promiscuously about, or even piled directly on the ground, and allowed to become infected. Very few yards pay any attention to this important feature of sanitation. The almost universal practice is to throw them on the ground whenever stacks are torn down, leaving them there until needed for new piles.

3. Pile foundations of timber which in the course of a few years become diseased and produce many fungous fruit-bodies which relaase millions of fresh vigorous germs in the form of spores. Many foundations do not permit of proper ventilation beneath the piles, a condition which ofter encourages severe decay in the base of the stacks by the gradual progress of fungi upward from the ground or debris over which the lumber is piled.

4. Improper methods of stacking lumber, which do not provide for sufficiently rapid drying.

5. Poorly constructed storage sheds, particularly with reference to insufficient ventilation beneath. A considerable number of such sheds have been investigatd where very widespread and destructive outbreaks of some of the most virulent fungi with which the builder has to contend occurred.

6. Tramways and tracks about the yards which become severely infected with decay and permit the development of an abundance of fungous fruit-bodies and spores. This is of particular importance in the case of elevated tramways from which the spores can be distributed for long distances.

To sum up, then, the sources of decay lie in allowing rotting debris to accumulate, in allowing pile foundations, tramway timbers, track ties and supports under lumber storage sheds to become infected, thus passing the decay on directly to timbers which lie in contact, or indirectly to more distant timbers through the agency of spores.

How to Prevent Infection and Decay in Stored Lumber.

Since decay is due to the presence of wood-rotting fungi the obvious first principle is to render conditions about the lumber yard unsuitable for the growth of the organisms. This can be accomplished by attention to the following details.

1. Location of Yards.— Wherever possible storage yards should be on high and dry land, on mineral soil rather than filled-in debris. This will greatly simplify the weed control problem and insure proper ventilation around the base of the lumber stacks. occasional wetting and silting of lumber by floors, tides and storm waves will almost invariably cause rot.

In all cases, weeds should be kept under control. This is frequently done nection also. A concentrated solution of common salt* (125 pounds per 52-gallon barrel) is effective against a considerable number of weeds if applied to the younger plants twice during the year at the rate of 1 barrel per acre.

A 2½ per cent solution of sulphuric acid* would be much better but requires considerable care in handling and must be used in glass containers or other kinds of material which has been enameled or coated with paraffin.

*According to information supplied by Professor A. L. Stone of the University of Wisconsin.

According to investigations of the Department of Agriculture, sulphuric acid at the rate of $\frac{1}{16}$ fluid ounce per square foot of soil has also proven very effective in preventing weeds in nursery beds, particularly in sandy non-alkaline soils.

2. Cleaning-up of Yards.—The most careful attention should be given to this phase of the question. The writer has seen yards where hundreds of thousands of feet of lumber have rotted in storage and either been left in the original piles, often with new lumber piled on top, or else scattered about the yard or its immediate vicinity until completely decayed. Such material should be thoroughly collected and **burned.**

3. Greater Care in Handling Piling Sticks and Stacking Lumber.—A piling stick infected with an actively growing wood-destroying fungus can spread infection to any part of a pile of green lumber where it may happen to be placed, so the necessity for carefully guarding these strips and keeping them from contact with the ground is obvious. They should preferably be cut from heartwood of very durable timber, such as resinous pine, red gum, white oak or similar woods and dried before use.

Many lumbermen prefer to use the lumber itself for cross-strips. This ordinarily gives little trouble where the boards are properly spaced and the narrower widths are selected for the crossers. In the larger piles, a central flue one board wide is often of distinct advantage. The edge piling of 2 x 4's are practiced at some mills is favorably reported.

Timber should never be allowed to lie, even temporarily, in close piles on the ground or on decayed tramways.

4. Better Construction for Pile Foundations.—Very often pile foundations are altogether too low or are poorly constructed, not allowing sufficient ventilation beneath the stacks. The laying of a few planks on the ground parallel to the alleys does not make a good pile support. In the first place, it allows circulation in only one direction, and in the second place such a foundation is usually too low. Being more or less permanent structures and partly in contact with the ground, pile foundations should consist of horizontal timbers set on concrete or brick piers, or blocked up at intervals with wood, to a height of at least 18 inches from the ground. Such timber as enters into their construction should be either highly durable or else treated with some wood preservative. Coal-tar creosote will serve as an efficient antiseptic.

Sound, air-dry blocking cut from many of the low-grade species of timber having a goodly percentage of sapwood can be given a satisfactory treatment by heating in a tank at about 200 to 220 degrees Fahrenheit for 4 to 6 hours, then allowing to cool in the oil. The longer horizontal timbers can be given 3 coats of hot creosote at 180 degrees to 200 degrees Fahrenheit at intervals of 24 hours. Heartwood in this case is much to be preferred to sapwood.

Concrete is finding an increased use around lumber yards, and is giving satisfaction. Reinforcing it with steel or iron is often of distinct advantage. While the initial cost is high as compared with cull timbers or old timbers removed from other structures, such as many lumbermen use, its permanence and its value in improving sanitary conditions are advantages worthy of careful consideration.

These remarks apply to the construction of storage shed foundations as well as pile foundations in the open.

5. Preservation of Tramway Timbers and ties.—The decay of these timbers can be overcome by treatment with creosote or some other good wood preservative. The work can be done by commercial wood preserving companies or by the lumberman himself in the ways above indicated.

6. Dipping Stored Lumber to Prevent Infection.—Dipping green lumber in soda solutions to prevent bluing is at present a recognized practice in the United States, particularly in the southern pine belt. While soda is or less effective against bluing it will hardly be of much value in preventing attacks of other fungi. A more toxic substance, such as sodium fluoride, is suggested. This substance can be substituted for the soda dip very readily and would serve the double purpose of blue-stain prevention and also protection against incipient decay.

A Word of Advice to Lumber Dealers and Builders.

Timber which shows any trace of decay should never be sold or accepted for building purposes, as even dormant fungi in dry timber can often start into active growth when placed under moist, comparatively warm conditions.

Architects should see that only well-dried timber is employed and that beams or joists are never embedded in concrete or brick without allowing for ample ventilation at the ends by "boxing." Also, particular attention should be paid to ventilating closed basements. The above are the principle seats of decay.

C. J. HUMPHREY,
Pathologist,
Bureau of Plant Industry.

THE STORY OF IRRIGATION.

In The Redwood.
By Jos. A. Chargin, Jr., C. E., '16, (University of Santa Clara.)

Irrigation undoubtedly originated in semi-tropical and relatively arid regions where there was a periodic overflow of the desert areas traversed by some of the large rivers like the Nile or Congo. Beneficient Nature started it when streams flowing from plateaus and mountain ranges, swollen by rains and melting snows, overflowed their banks into the surrounding country. Man in this early stage learned to guide and assist this overflow by rough dikes and rudely constructed ditches. Later he built canals to irrigate the higher portions of land.

On the European continent records of most primitive methods have been found going back as far as 2250 B. C. In nearly all of the countries bordering on the Mediterranean, and in Mesopatamia, India and China, the then obscure art of irrigation was practised.

On the other side of the world, on the American continent, works, which rival in antiquity those of Europe, can be found. In the Salt River Valley of Arizona, in northern New Mexico, and in southwest Colorado, there have been found many well defined remains of irrigation works, that were probably built by the Cliff Dwellers. The works in the region of the Rio Verde show traces of the prehistoric irrigation. One ancient ditch in particular is well marked by two clearly defined lines of pebbles and small boulders, which most probably entered into its construction.

The advent of the Spanish missionaries was the beginning of modern irrigation in the Unted States. Seventy years before the English colony landed at Jamestown, these missionaries built canals and dams in the scenic valleys of Lower California.

Although these works were of the crudest character there are some in use up to the present day. "A man's work lives after him to mark the pages in the Book of Time."

A good example of this is shown by the works of the old padres, which still stand besides the lower San Diego river, a few miles northeast of the city of Sai Diego. It consists of a dam, and a large part of the conduit, by which water was diverted from the San Diego river and carried some miles down its valley to the ranches which surrounded the San Diego Mission. Its remarkably good state of preservation stands as an ever-present testimonial to the thoroughness with which the padres did their work. Although these works are the oldest in this country, they withstood the same flood waters which washed out the lower Otay Dam.

Another striking example are the ditches of Las Cruces, New Mexico. These ditches have an unbroken record of 300 years of service. It is here that one can yet find agriculture almost as primitive as that of the days of Pharoh, where grain was reaped with the sickle and thrashed by the tramping of goats.

In 1847, the pioneer Morman settlers led by Brigham Young, who had all the essential requirements of an engineer, started irrigation in the Salt Lake Valley in Utah by turning the clear waters of City Creek upon the sun-baked and alkaline soil. This marked the beginning of a new era in irrigation. Twenty years later the work was taken up in California and Colorado. From these states it gradually spread throughout other states of the arid West.

Primitive irrigation as previously stated consisted principally in assisting nature to carry waters over low lands during the high water season. The first ditches that we constructed throughout the West were simple furrows for turning part of the water of a creek into bottom lands. With the growing needs of the people came the diversion dams truning the water from streams into canals which led to the different farms. The diversion works in practically all cases were temporary dams of sand-bags, placed in the stream to raise the water slightly, thus diverting it into the canals.

The principal sources of irrigation waters are the perennial streams which have their sources in the mountains. Since the waters from these sources varied with the different character of the years, wet or dry, the supply was considered somewhat unreliable, so the next step was to construct some sort of a reservoir to hold the waters of the flood season until they were needed. This would enable the farmers to obtain water any time they wanted it.

As the people learned more and more about this work and saw the great and bounteous results of irrigation, dams and canals were constructed, built usually of earth. This idea was enlarged upon as time went by and many different localities took it up.

Today worked out on a gigantic scale, we have as the leader of them all the United States Reclamation Service. The sole office of this service is to discover and invent ways and means by which lands given up as barren can be reclaimed and made to bring forth the fruits of the earth.

What has been the result?

The result has been marvelous. Where once existed broad plateaus of sage-brush and wild grass in dry and sun-heaten spots, and glistening sands for miles around can now be seen a broad carpet of the brightest of greens, dotted here and there with vari-colored blossoms of fruit trees, all centered about some rapidly growing town.

Where centuries ago stood diversion works of sand-bags and furrows for canals, there are now immense, imposing concrete, earth or masonry dams and smooth lined waterways almost as large as rivers. This modern dam construction is admirably shown in the Arrowrock Dam, across the Boise River, Boise, Idaho. At present it is the highest concrete dam in the world. This dam, which is on the Boise project of the United States Reclamation Service, is 348.5 feet from bed rock and about 250 feet above the river bed. It is curved in plan and has a length of 1,060 feet. It belongs to the gravity type. The Roosevelt Dam in Salt River Canyon, about 10 miles above Phoenix, is another good example. It is built of masonry and is a combination of the arch and gravity types. It is 284 feet high and the length of the crest is 780 feet. This dam is the highest one of its kind in the world.

MOTH TIME IS HERE. PREPAREDNESS THE WATCHWORD.

With the opening of spring the innocent appearing little moths start their depredations. Why not forestall them and avoid this unnecessary damage. A Tennessee Red Cedar chest or a closet lined with this wood will effectively prevent their ravages, and the pungent aroma of the wood gives a most pleasant and cleanly air wherever used.

The Cedar chests on sale in the furniture stores are priced at from $20 to $50 a piece. These chests can be made at home or by any local carpenter at a fraction of this expense. Anyone handy with tools will find making a chest a most pleasant and profitable exercise, and one which has become quite popular.

Millmen can do a good business by making Aromatic Cedar chests for the furniture stores. The freight on a finished chest is so much more than on the rough lumber that these articles can be made here to greater advantage than by shipping them out from the East.

White Brothers, the largest hardwood dealers on the Pocific Coast, have just taken in a fine new stock of Tennessee Red Cedar, 1 inch in thickness, widths 3 inch to 6 inch, and lengths 4 to 10 feet. The grade is sound knotty, and the sizes are just what is required for making chests and lining closets. The knots and sap, far from detracting, give the finished article a strikingly beautiful effect.

A Cedar chest or Cedar lined closet will bring joy to the heart of wife, mother, sister, or sweetheart especially at this season of the year because she can lay away her winter furs and heavy cloaks in perfect safety, knowing that when the cold weather come around again she can take them out sweet and fresh and with no signs of visitations from her usual enemy, the moth.

RESERVE APRIL 12 HOYT CALIFORNIA LUMBER INDUSTRY.

Lumber valued at over twenty million dollars is cut annually by the lumber mills of California. The coast counties of Northern California are the scenes of the greatest lumbering activities, which also extend inland to the mountain counties bordering on the north end and the east and west slopes of the Sacramento Valley. The timber of California is found upon the Sierra Nevada and Coast ranges north of San Francisco Bay. A little is found in the Coast ranges farther south, but the lumbering industry is chiefly confined to Northern California. Redwood is the chief Coast county product, with yellow pine, sugar pine, incense cedar,

and red fir as the chief timbers of the counties bordering on the north and east of the valley.

The wooded land of the State is estimated to have an area of 44,700 square miles, or 22 per cent of the total area of the State. The principal species are redwood and yellow pine. Redwood production is limited to California, no other State having a commercial supply of this species of timber. Redwood runs close to half of the annual lumber output of the State. Chief among the other species sawed into lumber are Western pine, Douglas fir and sugar pine.

The following figures showing the value of the California lumber industry according to the last seven census reports are proof of the importance of the industry in this State: 1850, $950,-485; 1860, $3,943,881; 1870, $5,227,064; 1880, $4,428,950; 1890, $8,794,655; 1900, $13,764,647; 1909, $18,265,539. The estimated value of the industry now is over twenty million dollars.

The ten largest holdings of timber lands in the State comprise 2,448,094 acres, or approximately 42 per cent of all the privately owned timber and cutover lands in the State, according to the last official figures available. These largest holdings are as follows: Central Pacific Railroad Co. (Southern Pacific), 921,311 acres; T. B. Walker and associates, 673,665 acres; McCloud River Lumber Co., 232,063 acres; Diamond Match Co., 159,499 acres; Hammond Lumber Co., 94,760 acres; Union Lumber Co., 80,250 acres; L. E. White Lumber Co., 79,540 acres; Weed Lumber Co., 71,458 acres; C. A. Smith, 69,-768 acres; Sierra Nevada Wood & Lumber Co., 65,680 acres.

The Southern Pacific holding is the greatest in the United States—106,000,-000,000 feet. It stretches practically 680 miles along that railroad from the upper Sacramento Valley to Portland, Ore. Other of the large timber holdings are in Shasta, Humbildt, Mendocino, Lassen, Siskiyou, Modoc and Trinity counties at the north end of the Sacramento Valley with several of the counties bordering on the foothills. —The Timberman.

CONGRESS AND ROAD BUILDING.

At a meeting of its executive board the American Automobile Association went on record as favoring federal aid in a good roads measure which has been drafted by the executive committee of the American Association of State Highway Officials. Briefly, the bill provides for national and state cooperation on whatever roads may be mutually decided upon, with the state matching every federal dollar it receives on the basis of its area, population and road mileage in proportion to the total for the whole country.

It seems to be generally recognized that any bill which the Congress of the United States will pass is likely to include a requisite that a state shall first establish a highway department in order to have a centralized direction in construction and maintenance of roads.

Just six of the forty-eight states have yet to establish highway departments. Georgia, South Carolina, Mississippi, Nebraska, Indiana and Texas are the six states which have yet to recognize the need of a state highway department.

HEALTH NEWS ISSUED BY THE UNITED STATES PUBLIC HEALTH SERVICE.

DO YOU KNOW THAT

Sags in roof-gutters may act as mosquito breeding places?

America's most valuable crop is babies?

The public cigar-cutter is a health menace

The United States Public Health Service maintains a loan library of stereopticon slides.

The typhoid rate measure accurately community intelligence

Whooping cough annually kills over ten thousand Americans?
Bad housing produces bad health?
Rocky Mountain spotted fever is spread by a wood-tick?

COMPRESSION TEST FOR KEEL BLOCK.

An important test was conducted recently by the United States Bureau of Standards to determine the ultimate strength of a cast iron keel block. As designed, the block was expected to withstand a load greater than could be exerted by any testing machine in existence. It did withstand the full capacity of the bureau's testing machine (10,000,000 pounds) when the load was applied over the entire bearing surface of the block, but when the load was applied over part of its bearing surface it failed at 9,600,000 pounds.

The test of the block itself was preceded by several preliminary tests to determine the strength of oak timbers, which are usually placed between keel blocks and the keel of the ship. At loads from 300,000 to 800,000 pounds the timbers were completely shattered, the variation in the load depending entirely upon the variation in the area over which the load was applied.

After these preliminary tests the keel block was subjected to a load equal to the capacity of the machine. At about 6,500,000 pounds several sharp reports were heard, but after the full load was applied there was no apparent damage to the exterior of the block. On dismantling it, however, it was noticed that several of the webs of the various sections were cracked. It was then reassembled, and the load applied over a small area when it failed at 9,600,000 with a very loud report and almost complete shattering of the various sections, throwing parts of them to a distance of 12 feet.

COPIES OF 1914 STATISTICAL ABSTRACT WANTED.

Because of the demand for the 1914 edition of the Statistical Abstract of the United States, published by the Bureau of Foreign and Domestic Commerce, the bureau would be pleased to augment its supply with copies that are now not needed by the persons to whom they have been sent. Franks will be supplied to any who apply to the Bureau, for use in mailing the books to Washington.

MOUNTAIN ROAD CONCESSION IN PERU.

The Peruvian Government has granted a concession to Adolfo Hilliker, a civil engineer, for the construction of a pack road between the station of Urcos, on the Juliaca-Cuzco Railway, and a navagable point on the River Querene or the River Madre de Dios. The terms of the contract, published in El Peruano of February 4, reveal the many difficulties in the way of transportation in this mountainous region of Peru. The road, which will be approximately 125 miles long and 8 feet wide, will pass through native forests in which ample spaces must be cleared. Where swamps are encountered, they must be drained and the roadway laid with stone. Where streams are to be crossed, strong bridges must be built or rafts and canoes provided.

In connection with the road, the concessionaire agrees to construct way stations or road houses every 15 miles, where carriers and freight may be protected from the mountain storms. Freight in transit may be stored at these stations without charge for a 10-day period or less. A telegraph and a telephone line must also be installed along the road, and electric communication must be furnished free to the Government. No toll will be collected for the use of the road. The concessionaire agrees to keep the road in good condition for 30 years, and at the end of this time to turn it over to the Government of Peru. In consideration of these various services, the Government grants to the concessionaire the absolute ownership of 1,000 hectares (2,471 acres) of mountain land for every kilometer (0.62 mile) of road constructed, or a total of nearly 500,000 acres. In addition, the Government agrees to grant no concession for competing roads with 15 years. The concessionaire must present preliminary plans with 90 days, and must complete the road within four years from the date of the concession.

RADIUM NEVER SEEN IN NATURE.

Radium is a metal and is described as having a white metallic luster. It has been isolated only once or twice and few people have seen it. Radium is ordinarily obtained from its ores in the form of hydrous sulphate, chloride, or bromide, and it is in the form of these salts that it is usually sold and used. These are all white or nearly white substances, whose appearance is no more remarkable than common salt or baking powder. Radium is found in nature in such exceedingly small quantities that it is never visible even when the material is examined with a microscope. Ordinarily radium ore carries only a small fraction of a grain per ton of material and radium will never be found in large quantity because it is formed by the decay of uranium, a process which is wonderfully slow, and radium itself decays and changes to other elements so rapidly that it is impossible for it to accumulate naturally in visible masses. Minerals that carry radium, however, are fairly easy to determine. One of them, pitchblende, as generally found, is a black mineral about as heavy as ordinary iron, but much softer. The principal radium mineral, carnotite, has a bright canary-yellow color, and is generally powdery. There are other radium-bearing minerals of less importance.

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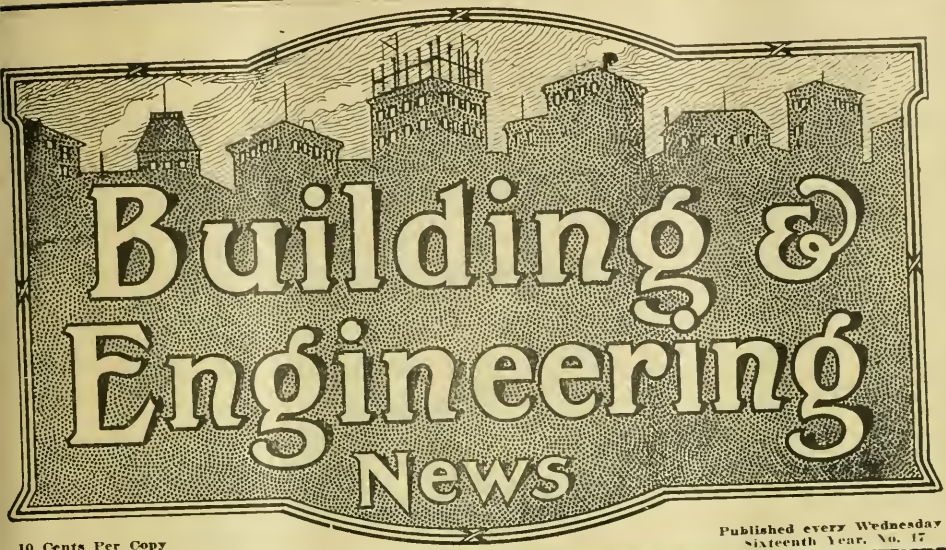

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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STUDY OF TRACK BONDING AIDS ENGINEERS.

American electrical railway engineers have been provided with a publication on rail joints and bonds which is of special importance to their work, for the double reason that in its compilation use has been made of facts and opinions from half a hundred railway companies, and that a full technical discussion of the subject is presented by the scientists of the United States Bureau of Standards, who have employed the facilities afforded by the Governments' laboratory.

Technologic Paper No. 62, as it is designated, is a camprehensive discussion of every phase of the subject, and in its 125 pages, with 29 half-tones and 6 line drawings, it presents a historical and general discussion of bonds and joints, a compilation of information submitted by operating companies, analysis of the facts collected, results of experimental tests conducted by the bureau, and general conclusions.

Special Features of Publication.

There is a detailed table of contents, by means of which prompt reference may be made to the desired topic. Additional convienee is afforded by a complete bibliography. The volume also contains a complete list of the 62 technologic papers of the bureau, of which this is the latest, covering a wide variety of investigations relating to American manufacturers, in which actual practice, as studied among the business concerns, is combined with field and laboratory work and general research.

The subject of track bonding has aroused keen interest in recent years. This has been the logical outgrowth of the widespread study of electrolysis. The bureau states that while electrolysis continues to be the greatest stimulus for bond maintenance, it is as a rule justifiable solely from the standpoint of good operation and is an absolute necessity for the successful operation of block signals.

New inventions and recent improvements in the manufacture and installation of bonds and joints, as well as changes in the types and composition of rails, all contributed to an unsettled condition at the present time, which means that a great number of bonds and joints now in service are in the experimental stage. The Bureau of Standards states that it hopes in tabulating and analyzing the data collected to interpret present tendencies and to lay before electric railway companies, especially the smaller companies with limited resources, information which will be a guide to the selection of bonds and joints and point out the best methods of application and maintenance.

Conclusions Drawn from Investigation.

A result of the investigation is the conclusion that the problem of rail-bond maintenance is largely that of joint maintenance. The bureau says:

No bond can be expected to last continuously on a loose and poorly supported rail joint. No one type of bond can be said to be better than all other types. Each has its advantages and disadvantages, and the selection of a bond for any particular service should be governed by the type of construction on which it is to be used, the grade of labor available for installation, and upon numerous other local conditions. While welded joints are being used more than ever before, there is a growing tendency to adopt improved mechanical joints and various forms of special joints, several of which are a combination of welded and bolted or welder and riveted joints. The testimony shows a marked tendency to get away from soldered bonds. It has been demonstrated that the saving of power alone will not justify the best modern practice in bonding. Such practice, however, is justified and strongly recommended from the standpoint of good voltage conditions in the return circuit, which not only make for good electrolysis conditions but also for more satisfactory operation.

CORRUGATED IRON NATAL'S ROOFING MATERIAL.

The great majority of the houses of Natal, South Africa, whether public buildings, stores, dwellings, warehouses, or stables, are roofed with corrugated iron, and corrugated iron enters to a large extent into construction generally. The weather is probably the principal cause of its popularity as the place is in the semitropics.

Tiles are used in fair quantities for the more pretentious houses, and other roofing material is occasionally met with, sometimes patent American roofing of different kinds, but corrugated iron is by far the most commonly used. In order to succeed in the introduction of any other roofing material, steps should be taken to work up the trade industriously.

Metal ceilings are as rarely used as metal shingles, plastering with plaster of paris ornaments being principally used for the more ornamental ceilings. There are also quantities of what might be called papier mache ceilings in use, this papier mache coming in squares of a foot and a half or two feet, closely resembling a metal ceiling.

[A list of the more important dealers in building materials of all kinds may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 73939.]

HOW SILVER BOW CREEK GOT ITS NAME.

Silver Bow Creek received its name from a party of prospectors who reached its valley in the vicinity of Butte in 1864. While discussing the best name for the stream the clouds broke away and the sunshine falling on the creek as it circled around the mountain suggested the name of Silver Bow, and it was accordingly so called. (United States Geological Survey).

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house addition, 3 story and base, frame, $20,000. Architect, J. F. Dunn, Monadnock Bldg., S. F. Owner's name withheld. Location, Page and Stanyan. Will contain two and three room apartments. Interior finish pine. Some hardwood floors. Steam heat and hot water system. Bath rooms tile and composition. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, north Clay west of Hyde, covering an area of 34 by 90 feet. Will contain twelve modern apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms finished in tile with composition floors. Wall beds. Marble and tile wainscot in the entrance. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $13,000. Architect, none. Owner, Henry Scholten, 1522 Santa Clara avenue, Alameda. Location, south Mission near 14th street, covering an area of 34 by 84 feet. Will contain twelve apartments of two and three rooms. Interior finish pine and redwood. Some hardwood floors. Steam heat and hot water supply. Bath rooms composition floors. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Apartment house and stores, 2 story, frame, $6,400. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, East 14th street. Will contain two stores on the ground floor and four modern apartments on the upper floor. Interior finish pine. Some hardwood floors. Gas steam radiators. Wall beds. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $33,000. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, College avenue. Will contain stores on the first floor and a number of two and three room apartments on the upper floors. Interior finish pine, hardwood and white enamel. Some hardwood floors. Steam heat, oil burning system and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans being prepared.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. Heijne. Location, 41st and Webster streets. Will contain eight suites of two and three rooms with wall beds and private bath rooms. Interior finish pine, elm panels and white enamel. Some hardwood floors. Steam heat and hot water system. Composition floors in the bath rooms. Marble and tile wainscot. Exterior covered with cement plaster. Plans being prepared.

REEDLEY, FRESNO CO., CAL.—Apartment house, 2 story and base, concrete block, $6,000. Architects, Boast & Huey, Reedley. Owner, John Parenti. Location, 11th and I streets, covering an area of 30 by 100 feet. Will contain apartments of two and three rooms with private baths and sleeping porches. Interior finish pine. Some hardwood floors. Hot water supply. Composition floors in the bath rooms. Wall beds. Exterior faced with cement plaster. Plans being prepared.

LOS ANGELES, CAL. — Apartment house, 3 story and base, brick. Cost not stated. Architect, August Wackerbarth, 202 North Main street, L. A. Owner, C. F. Gerecht, Fay Bldg., L. A. Location, southwest West Adams and La Salle streets, covering an area of 50 by 150 feet. Arranged for stores on the first floor and a number of two and three room suites on the upper floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning furnace and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $40,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, Theo E. Rulfs. Location, west Leavenworth north of Sutter, covering an area of 39 by 90 feet. Will contain a total of sixteen modern suites of two and three rooms. Interior finish gum throughout. Hardwood floors. Steam heat from city street supply, hot water system and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot. Ornamental plaster in vestibule and lobby. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be taken at once.

Contracts Awarded.

SEATTLE, WASH.—Apartment house, 5 story and base, mill construction, $70,000. Architect, George W. Lawton, Alaska Bldg., Seattle. Owners, Goodwin Realty Co. Contractor, Victor J. Murdock, 626 14th avenue, Seattle. Contract price, $70,000.

BANKS

RIVERDALE, FRESNO CO., CAL.—Bank and offices, 2 story and base, brick, $10,000. Architect, O. L. Clark, Brower Bldg., Bakersfield. Owners, First National Bank of Riverdale. The entire first floor of the building will be occupied by the bank and the upper floor fitted up for offices. Interior finish pine and hardwood with special bank fixtures, vaults and ornamental plaster. Exterior faced with pressed brick. Plans are being prepared.

BONDS

VISALIA, TULARE CO., CAL.—May 16th has been set as the date on which the voters of the Visalia School District will pass upon the proposal for an issue of $105,000 in bonds for the construction of two new primary schools and a grammar school. One of the buildings will replace the present Tipton Lindsey school, which has been condemned as unsafe, and the other two will care for increased attendance.

ANDERSON, SHASTA CO., CAL.—The Trustees of the Anderson Union High School District have called an election for May 27 to vote on the proposition of bonding the district for $60,000 to raise money to erect a new school building.

NELSON, BUTTE CO., CAL.—A resolution has been passed authorizing a bond election for $10,000 for a new school building. The date for the election has been set for May 16th.

RICHMOND, CONTRA COSTA CO., CAL.—The City Council of Richmond has adopted resolutions opposing the proposed construction of the Mt. Diablo Boulevard project, which has been outlined by the Burgess interests in the vicinity of Walnut Creek and Alamo.

SANTA ANA, ORANGE CO., CAL.—The election held for $100,000 school bonds was defeated last week. This is the second time the election has failed to carry.

SAN BRUNO, SAN MATEO CO., CAL.—The Board of Trustees has ordered the sale of storm sewer and bridge bonds. When sold the proceeds of the sale will be used to finance the construction of a storm sewer system and the construction of a number of bridges.

BAKERSFIELD, KERN CO., CAL.—Bids are being taken by the City Council for the purchase of a lot with a 100-foot frontage to be used for the construction of a garage building. The city now rents a building for this purpose. Plans for the garage will be ordered on the acceptance of the site.

PLACERVILLE, EL DORADO CO., CAL.—An election to vote $35,000 in bonds for school improvements will be called shortly. It is the intention of the trustees to erect two new school buildings with the proceeds of the sale of bonds.

TRACY, SAN JOAQUIN CO., CAL.—It is probable that an election will be called within the next few weeks by the Tracy Trustees to vote bonds for a new high school. Plans for the building are being prepared by Architect W. H. Weeks of San Francisco and call for a building costing $60,000 of reinforced concrete, one story in height.

LONG BEACH, LOS ANGELES CO., CAL.—May 12th is the date set for an election to vote bonds for the erection of a grammar and a high school building.

PASADENA, LOS ANGELES CO., CAL.—A proposition to issue $350,000 bonds for the purchase of new sites and erection of new buildings will probably be submitted to the voters of South Pasadena by the Board of Education within two or three months.

VICTORVILLE, SAN BERNARDINO CO., CAL.—The Victorville school bonds, amounting to $30,000 have been sold and construction of the building will be started shortly.

LOS ANGELES, CAL.—The City Council has passed an ordinance providing for the issuance, sale and payment of bonds, in the sum of $1,020,000, which were voted on January 20 last, the proceeds to be applied to the acquisition and construction of works for distributing and supplying water to the inhabitants of municipal improvement district No. 1, including the acquisition of lands, rights-of-way, structures, pipes, pipe lines and apparatus and the construction of mains, conduits and other works.

RIVERSIDE, RIVERSIDE CO., CAL. A bond issue for $50,000 is being considered by residents of the north side. Two new schools of four rooms each are needed, it is thought.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—A proposed bond issue to be submitted to voters soon, includes the following separate items: $100,000 city hall site; $75,000 auditorium in Lugo Park; $18,000 Arrowhead avenue bridge and grading; $25,000 Third street bridge, park levee, excavating for new bridge; $35,000 Mt. Vernon avenue bridge; $3,000 Base Line and G street storm protection; $8,000 Devil Canyon storm protection; $30,000 two fire stations, two auto fire trucks, chief's auto, and equipment.

CONCORD, CONTRA COSTA CO., CAL.—The school trustees are considering the enlargement of the present school building. Funds for the work are on hand and it is thought that plans will be ordered shortly for the work planned.

FAIRFIELD, SOLANO CO., CAL.—Fairfield has sold her $48,500 street paving bonds and bids for the work will be ordered shortly. The work planned will cost about $50,450.

RIVERSIDE, RIVERSIDE CO., CAL.—The County Highway Commission has recommended to the Supervisors a highway bond issue for approximately $700,000. The items in detail are: Repairs on county roads (made necessary by storms), $25,625; bridges (to replace those washed out), $140,000; Corona-Elsinore road (included under the former bond issue but not build for lack of funds), $192,000; connecting links of county highways in cities. (This includes a bridge over the San Jacinto River in the city of Elsinore), $137,800; surfacing Moreno-Beaumont road, $61,000; new roads to complete county highway system, $156,500.

BRIDGES, DAMS AND HARBOR WORK

CRESCENT CITY, DEL NORTE CO., CAL.—Bridge steel and reinforced concrete. Cost not stated. Engineer, H. J. Brunnier, Sharon Bldg., S. F. Owners, Del Norte County. Bids will be received until May 8th at 10 a. m. for steel and concrete work on a bridge to be built across the Siskiyou Fork of Smith River, near Gasquets. Concrete piers to be built according to supplemental plans. Plans on file at the office of the County Clerk.

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor Harry M. Malpas, Eureka. Owners, Humboldt County. Bids will be opened on May 8th for constructing a steel highway bridge 135 feet long with reinforced concrete abutments. The bridge will be erected over the Middle Fork of the Smith River. Plans at the office of the County Surveyor.

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and reinforced concrete, $100,439.62. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids were received on April 17th for constructing a steel span bridge, consisting of two spans each of 302 feet and two reinforced concrete approaches, in Humboldt County over the Eel River. The total length of the bridge will be 893 feet. Mercer-Frazer Co., Eureka, presented the low bid at $102,825. Bids were laid over until the next meeting of the State Highway Commission. The engineer's estimate for the work was $100,439.62. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

MERCED, MERCED CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, Merced. Owners, Merced County. Bids will be received on May 3rd at 10 a. m. for the construction of reinforced concrete bridge No. 46 across a slough on the Six Mile grade and about one mile north of Bear Creek bridge in Road District No. 1.

LOS ANGELES, CAL.—Viaduct, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Sealed bids will be received by the Board of Supervisors of the County of Los Angeles up to 2 o'clock p. m. on May 8th, 1916, for furnishing all labor and materials necessary for the construction of a concrete viaduct on Western avenue over Ionia avenue, in Los Angeles County. Said bridge is to be constructed in accordance with plans and specifications on file in the office of the Board of Supervisors of said county, and bidders are referred to said plans and specifications for further information.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge reinforced concrete. Cost not stated. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. of May 1st for the construction of a reinforced concrete girder bridge across Zaca Creek at Station No. 472-00, Section D, on the line of the state highway in the Third Road District, in accordance with plans and specifications on file at the office of the County Clerk, and which may be obtained upon depositing $10. Certified check for 10 per cent required.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge steel and reinforced concrete. $50,000. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A., and County Surveyor Johnson, Santa Barbara. Owners, Santa Barbara County. Mayberry & Parker and Engineer Johnson are preparing plans for the Quemada bridge. The structure will be 400 feet long, over all, and will have two big arches 75 feet high and 110 feet wide.

VENTURA, VENTURA CO., CAL.—Bridge, Timber construction. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to 3 p. m. of May 10th, for the construction of the Aliso Canyon bridge on Willoughby road. The work consists of one timber bridge 64 feet long. The approximate quantities are. 9,900 feet, B. M., Oregon pine lumber; 6,700 feet, B. M., redwood timber; 1,450 pounds steel and iron; 515 cubic yards earth fill; 176 linear feet guard fence. Plans and specifications on file at the office of the Clerk. Copies and blue prints obtainable from the County Surveyor. Certified check for 10 per cent required. J. B. McCloskey is the Clerk.

EUREKA, HUMBOLDT CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until May 9th at 2 p. m. for the construction of a reinforced concrete bridge across Little River in Road District No. 5.

EUREKA, HUMBOLDT CO., CAL.—Bridge, steel and reinforced concrete, $100,439. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. A statement made at the Sacramento office of the State Highway Commission is to the effect that all bids for the construction of the Eel River bridge in Humboldt County will be rejected. The lowest figure was presented by Mercer-Frazer Co. at $102,825. The engineer's estimate was $100,439. Further mention will be made of the work when bids are readvertised.

VENTURA, VENTURA CO., CAL.—Bridge abutments, reinforced concrete. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to May 6th for the abutments to the Casitas and La Crosse bridges. The bids were ordered readvertised after the rejection of bids opened April 10th. J. B. McCloskey is the Clerk.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, reinforced concrete. $18,500. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A., and County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. of May 1st for the construction of a reinforced concrete girder bridge across Zaca Creek at Station No. 310-5, Section D, on the line of the State highway, in the Fourth Road District, in accordance with plans and specifications on file with the County Clerk, which may be obtained from the County Surveyor upon deposit of $10.00. Certified check for 10 per cent required. C. A. Hunt is the ex-officio clerk of the board.

Contracts Awarded

HANFORD, KINGS CO., CAL.—Bridges and culverts, $5,339.42. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractor, H. E. Walker, Lemoore. Contract price, $5,339.42.

SAN FRANCISCO — Bridge repairs, $2,487. Engineer, City Dept. of Engineering, City Hall. Owners, City and County of San Francisco. Contractors, Thomson Bridge Co., 103 Main street, S. F. Contract price, $2,487.

CHURCHES

MERCED, MERCED CO., CAL. — Church, 2 story and base, frame and plaster, $20,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Presbyterian Church Society of Merced. Will contain main auditorium, Sunday school rooms, pastor's study and social rooms. Interior finish pine and ornamental plaster. Art glass windows. Central heating system. Exterior covered with asbestos stucco. Plans being prepared.

COURT HOUSES.

COQUILLE, COOS CO., ORE.—Court house, 3 story and base, reinforced concrete, $25,000. Architect, W. S. Chandler, Marshfield, Ore. Owners, Coos County. Will cover an area of 40 by 60 feet and contain offices for the various county officials. Interior finish pine and hardwood. Tile floors. Steam heat, vacuum cleaning and elevator. Metal window sash and frames. Special fireproof vaults. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

PRESCOTT, ARIZ.—Court house, 3 story and base. Class A construction, $300,000. Architect, William M. Bowman, Denver, Colo. Owners, Yavapai County. Despite the fact that the cost of construction of the new county court house will exceed the amount available by over $50,000, contracts have been awarded by the Board of Supervisors as follows: Rogers & Ashton of Denver, Colo., general contract at $180,000. Other contracts were awarded as follows: Simplex metal windows to U. S. Metal Products Co. of Los Angeles at $7,237; plumbing and heating to J. D. Potter Plumbing and Heating Co. of Denver at $14,890; metal doors and trim to the Interior Metal Manufacturing Co. of Jamestown, N. Y., at $17,245; electrical work and fixtures to Vyne Bros. of Prescott at $3,100.

FACTORIES AND WAREHOUSES

SAN FRANCISCO — Warehouse, 2 story and base, brick. Cost not stated. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, Progress Realty Co. Location, Cook street between 3rd and 4th streets, covering an area of 55 by 120 feet. Elevator service. Metal window sash and frames. Exterior faced with stock brick. Plans being prepared.

SAN FRANCISCO — Warehouse, 5 story and base, reinforced concrete, $126,000. Engineer, George Wagner, Hearst Bldg. Owners, Clinton Construction Co, 140 Townsend street. Location, east Third street between Townsend and Brannan, covering an area of 137 by 160 feet. Construction fireproof. First floor arranged for offices. Metal window sash and frames and metal covered doors. Elevator service, special conveyor machinery, steam heat, oil burning system and stand pipes. Exterior faced with cement plaster. Plans are complete and the owners are taking figures for all parts of the work except concrete work and brick.

BERKELEY, ALAMEDA CO., CAL.—Stables and shop, 1 story, brick and steel, $10,000. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owners, City of Berkeley. The building will be erected in the Corporation Yard in West Berkeley and will cover a considerable ground area. Plans are now being completed and figures will be called for shortly.

PINOLE, CONTRA COSTA CO., CAL. —Warehouse, 1 story. Class A construction. Cost not stated. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, A. Greenfield. Complete steel frame and brick exterior walls. Exterior faced with stock brick. Plans being prepared.

CARLOTTA, HUMBOLDT CO., CAL. —Dairy buildings, frame and concrete. Cost not stated. Architects, E. J. Burke & Michelsen, 432 H street, Eureka. Owner, Charles Willis Ward, 2301 C street, Eureka. Will include bull and calf pens, concrete silos, hay barns and all necessary buildings for a model dairy farm. Plans are being prepared.

FRESNO, FRESNO CO., CAL.—Cold storage addition, 1 story, reinforced concrete, $7,500. Architect, none. Owners, Western Meat Co. Besides the cold storage addition, a concrete smoke house will also be erected. Exteriors will be faced with cement plaster. Plans are complete and work will be done by Day Labor.

BRAWLEY, IMPERIAL CO., CAL.—Ice making plant, 1 and 2 story and base, reinforced concrete, $100,000. Architect, C. N. Gay & Son, 395 Towne avenue, L. A. Owners, Holton Power Co. There will be a cold storage building 160 by 190 feet and 40 feet high of reinforced concrete construction; frame and corrugated iron building 80 by 100 feet to contain the ice manufacturing machinery; and an icing dock 14 feet wide, 15 feet high and 860 feet long. Plans are being prepared.

Contracts Awarded

PASADENA, LOS ANGELES CO., CAL.—Warehouse, 2 story and base, reinforced concrete, $30,000. Architect, Cyril Bennett, Boston Bldg., L. A. Owners, B. O. Kendall Co. Contractor, Leonard Bukowski, Pasadena, general construction only. Contract price, $30,000.

LOS ANGELES, CAL. — Wholesale building, 4 story and base. Class A construction, reinforced concrete, $80,000. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, E. P. Bosbyshell. Contractor, Fred L. Somers, Baker-Detwiler Bldg., L. A. Contract price, $80,000.

FIRE HOUSES AND JAILS

REDWOOD CITY, SAN MATEO CO., CAL.—Jail, 2 story and base, reinforced concrete and steel, $60,000. Architect, Will H. Toepke, 45 Kearny street, S. F. Owners, San Mateo County. Construction fireproof. Will contain office of the sheriff, guard room, court room and separate departments for male and female prisoners. Interior finish pine, hardwood and tile. Steam heat, oil burning plant, hot water system and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures being taken.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $6,000. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, southwest Lincoln Way and Irving. Will contain two flats of five and six rooms. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Basement garage. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, W. J. Cuthbertson, 328 Montgomery street, S. F. Owner, J. H. Plattner. Location, east 9th avenue north of Lawton, covering an area of 25 by 55 feet. Will contain two flats of five and six rooms and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $9,000. Architect, Joseph Cahen, 45 Kearny street, S. F. Owner, Milton Auerbach. Location, Lake and 9th avenue. Will contain two modern flats of six rooms, bath and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, none. Owner, A. C. Hurrell, 648 10th avenue, S. F. Location, east 10th avenue south of Balboa, covering an area of 25 by 64 feet. Will contain two flats of five and six rooms with basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $2,500. Architect, Italio Zanolini, 604 Montgomery street, S. F. Owner, G. Ronconi. Location, north Telegraph west of Kearny. Will contain two small flats. Interior finish pine and redwood. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, H. E. Harris, Monadnock Bldg., S. F. Owners, Anderson & Johnson, 236 Church street. Location, west 9th avenue south of Cabrillo, covering an area of 25 by 59 feet. Will contain two flats of five and six rooms and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition floors. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

GARAGES.

OAKLAND, CAL.—Garage, 1 story and base, brick and steel, $20,000. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, Henry Abrahamson. Location, 29th and Broadway. Designed for a commercial garage and will cover a considerable ground area. Construction fireproof. Complete steel frame and brick exterior walls. Con-

crete floor. Special gasoline tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

Flathead Project.

The director of the reclamation service has awarded the following contracts in connection with the Flathead irrigation roject, Montana: To Percy & Ross, Polson, Mont., for earthwork and structures on the Mission, Post and Pablo divisions, contract price, $13,945; to the Monighan Machine Co., Chicago, Ill., for furnishing dragline excavator, contract price, $7,233, f. o. b. factory.

Butte, Mont., Repairs, Etc.

The following bids were received by the custodian, U. S. post office, Butte, Mont., recently for repairs and painting, etc., in the above building:

Arthur J. Elderkin, Butte, Mont., $3,-339; 60 days.

Barker Paint Co., Butte, Mont., $4,-165; 56 days.

J. P. Sullivan, Chicago, Ill., $4,362; 90 days.

ELLIS Paint Co., Butte Mont., $4,716; 48 days.

Drag Line Excavator.

Bids for one drag line excavator for the Flathead project, Mont., were received by E. H. Baldwin, U. S. Reclamation Service, Denver, Colo., on March 31, as follows:

Monighan Machine Co., Chicago, Ill., $6,875.

Pawling & Harnischfeger, Milwaukee, Wis., $7,000.

Marion Steam Shovel Co., Marion, Ohio, $9,350.

Bucyrus Co., South Milwaukee, Wis., $9,460.

F. C. Austin Drainage Excavator Co., Chicago, Ill., $9,800.

Lighthouse Service, Stone.

The following bids were received by the lighthouse inspector, 17th district, Portland, Ore., for furnishing 250 tons stone for riprap for Point Hudson light and fog signal, Wash.:

Sam McGee, Port Townsend, Wash., $580; 10 days; accepted.

J. M. Clapp, Seattle, Wash., $700; 30 days.

Lighthouse Service, Hoist.

The following bids were received by the lighthouse inspector, 16th district, Ketchikan, Alaska, for one 6-horse-power double-drum geared hoist and engine for Sentinel Island:

Doak Gas Engine Co., Oakland, Cal., $955.

Fairbanks, Morse Co., Seattle, Wash., $642; accepted.

Lidgerwood Mfg. Co., New York City, $780.

Honolulu, H. T., Repairs and Painting.

The following bids were received by the custodian, U. S. custom house, Honolulu, H. T., recently for repairs and painting in the above building:

Harry S. Sands, Honolulu, H. T., $579; 10 days.

H. H. K. Fries, Honolulu, H. T., $627; 30 days.

Honolulu Planing Mill, Ltd., Honolulu, H. T., $700; 10 days.

John Walker, Honolulu, H. T., $975, 30 days.

D. B. Cummings, Honolulu, H. T., $898; 30 days.

H. B. Reade, Honolulu, H. T., $764; 20 days.

Fuji Building Co., Honolulu, H. T., $745; 20 days.

J. N. Fernandez, Honolulu, H. T., $488; 20 days.

Yaelvodea & Romea, Honolulu, H. T., $441.50; 20 days.

Kalispell, Mont., Post Office.

The bid of Welch Bros. & Hannaman, Oakland, Cal., $80,120 in amount, has been accepted for the construction, complete, of the U. S. post office at Kalispell, Mont. Light-colored limestone will be used for all exterior stonework, except where granite is required. The work will be completed in 16 months.

Valley City, N. Dak., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for the construction, complete, of the U. S. post office at Valley City, N. Dak.:

John Lauritzen, Fergus Falls, Minn., limestone, $76,572.

J. W. Miller, St. Paul, Minn., $83,960, limestone.

W. J. Curran, Valley City, N. Dak., limestone, $86,000; sandstone, $86,400.

W. D. Lovell, Minneapolis, Minn., limestone, $72,540.

Wm. O'Neil & Son Co., Faribault, Minn., limestone, $69,072.

G. W. Stiles Construction Co., Rookery Building, Chicago., Ill., limestone, $73,890; sandstone, $77,390.

Northern Construction Co., Milwaukee, Wis., limestone, $76,817; sandstone, $78,317.

Thomas W. Cissel, Wooster, Ohio, limestone, $78,000; sandstone, $81,500.

SAN FRANCISCO—Officers' quarters, 12, 2 story and base, brick or hollow tile. Cost not stated. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Plans have been completed and are now out for figures for eight sets of double officers' quarters and four sets of field officers' quarters to be erected in the Presidio of San Francisco. Interiors will be finished in pine and hardwood with hardwood floors. There will be central beating systems, hot water supply and open fire places. Mantels tile and brick. Bath rooms tile. Exterior faced with pressed brick or cement plaster. Clay tile or slate roofs. Plans can be secured from the office of the Constructing Quartermaster at Fort Mason. Bids open on May 18th at 11 a. m. An official proposal appears in another column of this issue.

FORT HUACHUCA, ARIZ.—Quarters and administration buildings, concrete and frame. Cost not stated. Architect, Constructing Quartermaster, Fort Huachuca. Owners, United States Government. Sealed proposals will be received here until 1 p. m. May 15th, 1916, for furnishing materials and labor and constructing, complete, two double captains' quarters, four stable, guard and shop buildings, administration building quartermaster corps barracks and laundry. For information address Constructing Quartermaster.

HALLS AND SOCIETY BUILDINGS.

BRENTWOOD, LOS ANGELES CO., CAL.—Country Club, 1 story, frame and plaster, $25,000. Architects, Frank T. Kelsey and Scott Gerrity, Consolidated Realty Bldg., L. A. Owners, Brentwood Country Club. Preliminary plans show a building designed in the patio style, containing large social rooms, banquet rooms and living apartments. Further mention will be made of the work when plans are completed.

HOSPITALS

SAN FRANCISCO—Hospital general construction, 4 story and base. Class A construction. Cost not stated. Architect, Hermann Barth, 12 Geary St., S. F. Owners, City and County of San Francisco. New bids are now being called for by the Board of Public Works for the general construction of the southeast wing of the San Francisco Hospital. Bids will be opened on May 3rd.

BAKERSFIELD, KERN CO., CAL.—Hospital addition, 1 story, frame. Cost not stated. Architect, T. B. Wiseman, 1933 Chester street, Bakersfield. Owners, Kern County. At the last meeting of the County Board of Supervisors, plans for a small addition to the county hospital building to be used as a laboratory were approved by the Board and bids will be received until 10 o'clock May 2nd.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Hospital group, 1, 2 and 3 story. Class A construction, $100,000. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. A complete revision of the plans for this group of buildings is necessary, and the architect is now at work on the new plans. The central portion of the main building will be retained as originally planned, the interior being rearranged to permit its use for general hospital purposes. The construction of the other buildings of the group will be abandoned for the present at least.

SAN FRANCISCO—Hospital lighting fixtures, $1,000. Architect, August G. Headman, New Call Bldg., S. F. Owners, City and County of San Francisco. Plans are now being prepared for the lighting fixtures to be installed in the Pathological ward of the San Francisco Hospital. Bids will be called for shortly.

NAPA, NAPA CO., CAL.—Hospital cottages, 1 story, frame and concrete, $26,262. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Of the fourteen sets of figures received April 17th for constructing cottages for males and females at the Napa State Hospital, the bid presented by L. G. Bergren & Son, Hearst Bldg., S. F. was the lowest at $26,262. They will probably be awarded the contract. A complete list of the bids received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

Contracts Awarded

ELDRIDGE, SONOMA CO., CAL.—Hospital nurses' cottage, 1 story, reinforced concrete, $19,481. Architect State Architect George B. McDougall, Sacramento. Owners, State of California. Contractors, Carnahan & Mulford, 45 Kearny street, S. F. Contract price, $19,481.

HOTELS

JACKSON, AMADOR CO., CAL.—Hotel addition, 1 story, brick, $8,000. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, A. Eudeyni, Jackson. Will contain a number of single rooms. Interior finish pine. Heating system extended from present building. Exterior faced with stock brick. Plans complete and figures being taken.

BELLINGHAM, WASH.—Hotel and stores, 3 story and base, brick, $30,000. Architect, F. Stanley Piper, Bellingham. Owner, Charles Fischer. Will cover an area of 85 by 100 feet. First floor arranged for stores. Upper floors will contain a number of single rooms and baths. Interior finish pine. Steam heat and hot water system. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures to be taken at once.

LOS ANGELES, CAL. — Hotel, 12 story and base. Class A construction. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Frank Simpson. Location, northwest 6th and Grand avenue, covering an area of 60 by 80 feet. Reinforced concrete walls, floors and roof slabs. Will contain 150 rooms and baths besides large lobby and office. Interior finish pine and hardwood. Metal window sash and frames. Elevator service, steam heat, oil burning system and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick and terra cotta. Plans being prepared.

IRRIGATION PROJECTS

DINUBA, TULARE CO., CAL.—Irrigation dam, reinforced concrete, $6,000,000. Engineer's name not given. Owners, Alta Irrigation District. Resolutions have been adopted by the officials of the Alta Irrigation District approving plans for the construction at Pine Flat on Kings River of a storage reservoir to cost $6,000,000, and to impound 400,000 acre feet of water. The project is being promoted by L. A. Nares of Fresno. I. Tteiman, of the Fresno Irrigation and Canal Company, is interested in the proposed work Further meetings will be held by the officials to work out the finances. Further mention will be made of this work.

LIBRARIES.

BERKELEY, ALAMEDA CO., CAL.—Library heating, etc. Cost as follows. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids were opened on April 19th for the heating and ventilating and electric work in the new University Library. Scott Co., S. F., were low for the heating and ventilating at $29,880, and Ne Page-McKinney, S. F., low on the electric work. Contracts will probably be awarded. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

MARTINEZ, CONTRA CO., CAL.—Library, 1 story, concrete and brick. Cost not stated. Architect's name not given. Owners, Town of Martinez. Bids are being called for to be opened on May 15th for the construction of a library building. Carnegie donated $2,500 towards the construction and the local people have increased this amount. Complete information and plans and specifications can be secured from the County Clerk.

POWER IMPROVEMENTS

ABERDEEN, WASH. — City waterworks, $250,000 to $300,000. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners, City of Aberdeen. The City Council has ordered a call for bids for the construction of the proposed Wishkah waterworks system at the request of City Engineer L. D. Kelsey, and this will be made at once.

Contracts Awarded

BANDON, ORE.—Water pipe and waterworks materials. Cost as follows. Engineer, City Engineer, Bandon. Owners, City of Bandon. Bids for pipe and waterworks materials were opened by the City Council at its last meeting and contracts awarded as follows: United States Cast Iron Pipe and Foundry Co., Portland, Ore. Contract price approximately $35,462.36, and calls for 48 lineal feet of 6-inch and 1816 lineal feet of 10-inch pipe. The balance of the pipe will be furnished by the Pacific Tank and Pipe Co., of San Francisco. Gate valves and hydrants will be furnished by the Renssaler Valve Co., Seattle, $5,436.50 f. o. b. San Francisco.

MILWAUKEE, ORE. — Waterworks supplies. Cost not stated. Engineer, City Engineer, Milwaukee. Owners, City of Milwaukee. Contractor, M. L. Kline, 80 Front street, Portland. Contract price not stated.

RESIDENCES.

SAN FRANCISCO — Residence, 1 story and base, frame, $2,800. Architect, none. Owner, Jacob H. Thorup, 281 26th avenue, S. F. Location, east 24th avenue north of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,500. Architect, W. E. Hansen, 1882 Church street, S. F. Owner, Carl Christensen. Location, west 19th avenue north of Ulloa. Will contain eight rooms, bath and basement garage. Interior finish pine, whit enamel and hardwood. Hardwood floors in the principal rooms. Furnace heat and open fire places. Mantels tile and brick. Bath room tile floor and wainscot. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, Victor Holmgren, 1239 Athens street, S. F. Location, northeast corner of Brunswick and Naples. Will contain six rooms and bath. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 3 story and base, frame, $5,000. Architect, none. Owners, Pockman & Co., 37th avenue and Geary street, S. F. Location, southeast Clement and 40th avenue. Will contain eight rooms, two Bath rooms finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $22,000. Architect, Eugene K. Martin, 2192 Shatuck avenue, Berkeley. Owner's name withheld. Location, Presidio Terrace. Will contain fourteen rooms. Several baths, sleeping porch and conservatory. A separate garage will be erected on the property. Interior finish hardwood and white enamel. Hardwood floors throughout except in the bath rooms which will be finished in tile. A central heating system, probably hot water with an oil burning furnace, will be installed. Hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,000. Architect, none. Owner, John Mowat, 52 Webster street, S. F. Location, north Arlington east of Natick. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,000. Architect, M. Cain, 1281 21st avenue, S. F. Owner, Michael Cain, 1281 21st avenue, S. F. Location, east 19th avenue north of Taraval. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, D. J. Clancy. Location, east 19th avenue south of Balboa. Will contain seven rooms, bath and basement garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame. Cost not stated. Architect, none. Owner, Finance & Realty Development Co., Phelan Bldg., S. F. Location, south Balboa west of 19th avenue. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Tile wainscot in the bath rooms. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, R.

C. Miles, Central Bank Bldg., Oakland. Owner, A. G. Manhan. Location, Everett and Lindwood streets. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures to be called for at once.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, I. Ariel Kellogg, 3404 Champion street, Oakland. Location, west Pomona south of Main. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $2,500. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Bella Vista Park Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residences, 3, 1 story and base, frame, $1,600 each. Architect, none. Owners, Syndicate Investment Co., 1520 Broadway, Oakland. Location, east 86th avenue south of Holly. Each house will contain four rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire places and tile or brick mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, James Thompson, 4017 Lyon street, Oakland. Location, south Lyon east of 38th avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,500. Architect, Chester H. Miller, First Trust and Savings Bank Bldg., Oakland. Owner's name withheld. Location, Grand avenue. Will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,200. Architect, none. Owner, C. M. Jenkins, 1516½ Park street, Alameda. Location, 2312 Eagle street. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. White enamel in the bed rooms. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 6, 1 story and base, frame, $2,100 each. Architect, none. Owner, C. M. McGregor, 470 13th street, Oakland. Location, north Elbert west of Everett. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile or brick mantels. Some tile in the bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $3,000. Architect, none. Owner, William H. Sims, 1926 61th avenue, Oakland. Location, east Fairfax north of Ygnacio. Will contain eight rooms, bath and sleeping porch. Interior finish hardwood and pine with white enamel in the bed rooms. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. C. Adams, 3200 Fernside Boulevard, Alameda. Location, 1805 Wood street. Will contain four rooms, bath and sleeping porch. Interior finish pine and elm panels with white enamel in the bed rooms. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, V. N Strang, 1521 9th street, Oakland. Location, north Wildwood between Grand and Napa. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, C. Kabisins, 4480 Pleasant Valley Court, Oakland. Location, south Taft west of Broadway. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire place. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, north Francisco west of Sacramento. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, Reed & Wilson, 409 8th street, Oakland. Location, west Brown avenue north of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, Robert Chandler, 568 12th street, Oakland. Location, Nova Piedmont. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, Leonard Asumaa, 760 60th St., Oakland. Location, south Harwood west of Ross. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, Rickabaugh, Y. M. C. A., Oakland. Location, west San Carlos between Oakland and Magnolia. Will contain seven rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor & Elrod, Syndicate Bldg., Oakland. Location, east Spruce north of Cleveland. Each house will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms finished in tile. Mantels tile and brick. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name withheld. Location, Northbrae. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors in the principal rooms. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

MILLBRAE, SAN MATEO CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Henry Gibson. Will contain six rooms, bath and sleeping porch. Interior finish pine

and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

EUREKA, HUMBOLDT CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, E. J. Burke and Michelson, 432 H street, Eureka. Owner, George Belcher. Location, D street near Huntoon. Will contain nine rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

ARCATA, HUMBOLDT CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, E. J. Burke & Michelsen, 432 H street, Eureka. Owner, Paul Brizard. Will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

SAN FRANCISCO—Residences, 3, 2 story and base, frame, $5,000 each. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Each dwelling will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile with composition floors. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, Thomas Sweeney, 1387 Sanchez street, S. F. Location east Church St. south of Randall. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame and plaster, $10,000. Architect, Walter D. Reed, Oakland Bank of Savings, Oakland. Owner, Robert J. Tyson. Location, Piedmont. Will contain ten rooms, three baths, sleeping porch and separate garage. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, L. S. Walford, 1511 Central avenue, Alameda. Location, Broadway and Rockridge. Will contain seven rooms, bath and sleeping porch. A separate garage will be erected on the property. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Central heating system. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $1,200. Architect, none. Owner, George Baldani, 1731 Dewey street, Sacramento. Location, Wright and Kimball Tract No. 1. Will contain four rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. D. McClung, 2528 Carnegie street, Sacramento. Location, 2528 Carnegie street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALTADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame, $25,000. Architect, A. D. Hill, 775 South El Molino street, Pasadena. Owner, Mr. Sewell. Will contain sixteen rooms, five baths, sleeping porches and conservatory. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system, probably hot water, and hot water circulating system. Bath rooms finished in tile and equipped with showers. Open fire places and tile or brick mantels. Vacuum cleaning. Exterior covered with cement plaster. Plans being prepared.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Will contain fifteen rooms, five baths, sleeping porches and conservatory. Separate garage. Interior finish hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Central heating system, hot water circulating system and vacuum cleaning. Open fire places and tile and marble mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

PASADENA, LOS ANGELES CO., CAL.—Residence, 1 and 2 story and base, hollow tile, $100,000. Architect, Frederick L. Roehrig, American Bank Bldg., L. A. Owner, E. J. Marshall. Contractor, A. C. Brandt, 394 Worcester avenue, Pasadena Contract for foundation work only. Balance of work to be awarded shortly.

SCHOOLS

FORTUNA, HUMBOLDT CO., CAL.—School, 1 story and base, frame and plaster, $16,075. Architect's name not given. Owners, Fortuna School District. Ackerman Bros., Eureka presented the low bid for the construction of the new school building in the Fortuna School District and will probably be awarded the contract. A complete list of the bids received follows: Ackerman Bros., Eureka, $16,075; H. Williams, $16,744; Clark & Tollman, $16,839.30; A. Schnoor, $16,895; M. Baldry, $17,225; Thomas Englehart, $18,000; Elsemore & Jacobs, $18,920.

NEWCASTLE, PLACER CO., CAL.—School, 1 story and base, frame, $11,900. Architect, Allen D. Fellows, East Auburn. Owners, Newcastle School District. Will contain three class rooms and an assembly hall. Interior finish pine. Maple floors in the class rooms. No central heating system. Exterior covered with cement plaster. Plans complete and bids will be received until May 13th. Plans and specifications can be secured from the office of the architect.

PORT ANGELES, WASH.—School, 2 story and base, concrete and brick, $30,000. Architect, H. H. Ginnold, Melhorn Bldg., Seattle. Owners, Port Angeles School District. Will cover an area of 53 by 137 feet and contain class rooms, auditorium and departments for domestic science and manual training. Interior finish pine. Maple floors in the class rooms. Steam heat and modern school plumbing. Exterior faced with pressed brick. Plans are being prepared.

SAN LEANDRO, ALAMEDA CO., CAL.—Schools, 2, 1 story and base, brick and reinforced concrete, $35,000 each. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Revised plans for these buildings have been completed and figures are now being called. New bids will be opened on May 1st at 2.30 p. m. Plans can be secured from the office of the architect.

SEWERS, STREET WORK & WATER SYSTEMS

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Bakersfiled. Owners, Kern County. Bids will be opened on May 1st at 11 a. m. for grading, paving and construction of culverts on Division 3, Section 1, Wasco-Lost Hills road, being that portion lying between the Semitropic School and Lost Hills (length approximately 11 miles).

OAKLAND, CAL.—Underpass, reinforced concrete. Cost not stated. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be opened on May 15th for the construction of a concrete underpass to be constructed under the tracks of the Central Pacific Railway Co. west of Niles, in Washington Road District in Alameda County.

SAN JOSE, SANTA CLARA CO., CAL.—Drainage ditch. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Supervisors have instructed the County Surveyor to prepare plans and specifications for a drainage ditch between Supervisors' Districts Nos. 4 and 5, from the Mountain View and Alviso roads to the bay; also for a drainage ditch in Supervisor District No. 3 through the lands of Meads, Richards and Shields; also a survey for a drainage ditch from the Foxworthy road to the Guadalupe Creek on the Almaden road. Bids will be called for shortly on this work.

CRESCENT CITY, DEL NORTE CO., CAL.—Crushing and delivering rock. Cost not stated. Engineer, County Surveyor, Crescent City. Owner, Del Norte County. Bids will be received until May 8th at 10 a. m. for crushing and delivering 1200 yards of crushed rock on county road at points not more than one and a quarter miles from the

rusher, which is located on Burtschell inch, north of Smith River. Bid to ive price on coarse, medium and fine ock. Work to be completed within 60 ays after execution of contract. Coun- y to furnish crusher and spreader agons. Contractor to keep machinery n repair at his own expense and leave nachinery in good repair at end of ontract. Right reserved to roller at uch times as necessary.

SACRAMENTO, CAL.—Road repair. Cost not stated. Engineer, County urveyor, Sacramento. Owners, Sacamento County. Bids will be received ntil May 1st at 10 a. m. for doing the epair work on the Lower Stockton oad from the Five Mile House to Franklin.

SACRAMENTO, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be received until April 27th for street improvements under the following resolutions: That Orange avenue, from Lower Stockton road to 37th street, be improved by removing and disposing of all surplus and refuse material; constructing concrete curb on official line and grade, constructing concrete gutter, 8-inch vitrified, ironstone sewer pipe drains; placing east iron gutter drains, concrete manholes, complete, with cast iron curbs and covers, concrete sidewalk 3½ inches in thickness, grading an constructing an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness an asphaltic cement flush coat, and an asphaltic concrete wearing surface, 1½ inches in thickness.

VALLEJO, SOLANO CO., CAL. — Street improvement. Cost as follows. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The Northern Improvement Club has rejected the bid of Flynn & Treacy, First National Bank Bldg., S. F., for the paving of Alabama street. According to Flynn & Treacy, the total cost per lot for street paving in the northern district will average between $225 and $245, while corner lots with a 50-foot frontage will cost about $345. The figure includes grading at 60c per cubic yard, concrete curbs at 40c per lineal foot, and 4 inches of concrete and an inch of Topeka dressing for 12½c a square foot.

ANTIOCH, CONTRA COSTA CO., CAL. —Street improvement. Cost as follows. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. At the last meeting of the City Board of Trustees two bids were presented by the Raisch Improvement Co., 1108 Crocker Bldg., S. F., one for improving practically two blocks in front of the paper mill office and the other the block alongside of the Santa Fe station. These were the only bids submitted and both were higher than the present work, being as follows: Grading, cut, 45c; grading, fill, 15c; pavement, 12c; gutters, 17c per square foot; curbing, 40c per lineal foot; culverts, $1.70 per lineal foot. Bids were taken under advisement.

VALLEJO, SOLANO CO., CAL. — Sewer construction. Cost not stated. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Monday, May 1st, is the date set on which the City Council will open bids for constructing sewers in Everett alley, between Sacramento and Marin and Pennsylvania and Maryland streets, and in Solano avenue, 8th, Chase and Maine streets. Plans may be had from the City Clerk at Vallejo.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. At the last meeting of the City Council plans for the installation of sewers in the Wall additions, Pullman townsite and Coleman-Pullman tracts were approved by the Council and the City Engineer ordered to call for bids. Plans may be had from the City Clerk or Engineer.

SAUSALITO, MARIN CO., CAL.—Street improvements. Cost not stated. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. At the last meeting of the City Trustees plans and specifications for the improvement of Central avenue and West street were adopted. Plans and specifications for the improvement of North street were also adopted. Bids on this work were taken some time ago and were rejected. The lowest bid was $15,377.78.

PETALUMA, SONOMA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council, on the submission of plans and specifications of the City Engineer for a sewer on Douglas street, from Fair to Hinman and the improvement of Douglas street, resolutions of intention for said improvement were passed.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Sewer line extension. Cost not stated. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. At the last meeting of the Supervisors a resolution was adopted for extending the sewer line from septic tank to the sewer farm, and bids for the work will be called for immediately. Plans for the work may be had from the City Clerk.

OAKLAND, CAL. — Street paving. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Despite the protests of property owners, the City Council ordered the immediate paving of Madison street between 12th and Lake streets, and a resolution ordering the work was ordered. Bids will be called for shortly.

OAKLAND, CAL.—Street work. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed resolutions of intention providing for the installation of culverts, oil macadam paveing, storm water inlets, etc in the following streets: East 16th street, between Fruitvale avenue and the southeast boundary line of the City of Oakland; 33rd avenue, between East 14th street and East 8th astreet; East 10th, between Fruitvale avenue and 33rd avenue; East 12th street, between 13th and 23rd avenues; and 19th avenue, from East 12th street southwesterly. Bids on this work will be called for shorly.

OAKLAND, CAL. — Lighting posts. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention to construct lighting posts on Grove street, between 47th street and the northern boundary line of the City of Oakland, and on West street adjacent to Grove street. Bids will be called for shortly.

OAKLAND, CAL.—Street paving, etc Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 4th for street improvements under the following resolution: That Madison street, from the northern line of 12th street to the southern line of Lake street, be graded, curbed with concrete curbs, guttered with brick gutters 14 inches wide, and paved with asphalt.

LOS ANGELES, CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Sealed bids will be received by the Clerk of the Board of Supervisors of Los Angeles County at his office until 2 o'clock p. m. of May 15th, 1916, for certain improvement work on Mint Canyon road, known as "Section H," in Road District No. 5, in Los Angeles County. For further information address H. J. Lelende, Clerk.

VENTURA, VENTURA CO., CAL.—Highway construction, $34,018.10. Engineer, County Surveyor, Ventura. Owners, Ventura County. The Brasher-Burns Co., Van Nuys Bldg., L. A., was the lowest bidder at $34,018.10 and will be awarded the contract for constructing about eight miles of the Santa Paula-Fillmore highway. John D. Marsh was the next lowest bidder at $36,512.60.

LOS ANGELES, CAL.—Highway paving, $14,191.05. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. White & Gaskill of Long Beach were the lowest bidders at $14,-191.05 for constructing an oiled macadam pavement 22 feet wide and 5 inches thick on 2.57 miles of Coast Boulevard from Venice through El Segundo. The Crown Construction Co. submitted the next lowest bid at $14,-283.50.

LOS ANGELES, CAL.—Highway paving, $26,982.25. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Fred Hoffman of Long Beach was the lowest bidder at $26,-982.25 for constructing concrete pavement 24 feet wide and 5 inches thick on 4.01 miles of Pico Boulevard between Pruess road and Ballona road No. 2. The next lowest bid was submitted by the Mathewson Construction Co. at $27,973.21.

Contracts Awarded

SACRAMENTO, CAL. — Street improvement, paving, etc. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractor, A. Meiss, 1412 K street, Sacramento. Contract price not stated.

ROSEVILLE, PLACER CO., CAL.—Highway construction, $5,375. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Ross Construction Co., Forum Bldg., Sacramento. Contract price, $5,375.

VISALIA, TULARE CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract prices, paving, 11.9 cents; curb, 35 cents; gutter, 18 cents, and culverts, $1.00.

LOS ANGELES, CAL.—Highway paving, $19,700. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Contractors, The S. C. Contracting Co., L. A. Contract price, $19,700.

LOS ANGELES, CAL.—Highway paving, $34,223.60. Engineer, County Surveyor Los Angeles. Owners, Los Angeles County. Contractor, James L. Frazer, Long Beach. Contract price, $34,223.60.

STORES AND OFFICES

SAN FRANCISCO—Offices, 12 story and base. Class A construction, $250,000 to $300,000. Architect not selected. Engineer, Pierre Zucco, 166 Geary St., S. F. Owner represented by San Francisco Savings Union. Location, southwest corner of Market and Second streets, covering an area of 45 by 91½ feet. Engineering plans sufficient to enable the letting of a contract for the structural steel work have been prepared and the steel contract awarded to Dyer Bros. for approximately $90 per ton for 600 tons. No further details can be given until the selection of an architect has been made.

SAN FRANCISCO—Stores and offices, 19 story and base. Class A construction. Cost not stated. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owners' names withheld. The architect is working on preliminary plans for a proposed 19-story Class A structure designed for the exclusive use of physicians and surgeons, which is to be erected in San Francisco. The Parrott Estate's property at the north east corner of Powell and Post streets, 162 by 137½ feet, is given as the site of the building. At the offices of the Parrott Estate no confirmation of the report could be obtained. Architect Morrell stated on the phone that preliminary plans were under way, but that details of the big project could not be given at this time.

SAN FRANCISCO—Stores, 1 story and base, brick, $7,500. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner's name withheld. Location, east Hyde 87½ north of Ellis, covering an area of 25 by 87½ feet. Will contain one store. Interior finish pine and jenisero. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

VALLEJO, SOLANO CO., CAL.—Store, hotel and apartments, 3 story and base, brick and concrete, $40,000. Engineer, Frederick Whitton, 251 Kearny street, S. F. Owners, Solano Brewing Co. Location, northwest corner of Georgia and Sonoma streets, covering an area of 55 by 130 feet. Will contain several stores on the first floor and single rooms and apartments on the upper floors. Interior finish pine and elm panels. Steam heat, oil burning system and hot water supply. Bath rooms tile. Some wall beds. Patent store fronts and marble bases. Exterior faced with pressed brick. Excavating let to P. H. Hoare, Oakland, and concrete foundation work let to J. H. Parsons and Elmer E. Marshall, Vallejo. Other parts of the work being figured.

SAN RAFAEL, MARIN CO., CAL.—Stores and apartments, 2 story and base, brick and steel, $40,000. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, Herzog & Rake. Location, northwest 4th and B streets, covering an area of 150 by 100 feet. Will contain a modern department store on the ground floor and a number of two and three room apartments on the second floor. Interior finish pine and hardwood. Steam heat and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

THEATRES

SAN FRANCISCO—Theatre, 1 story and base. Class A construction. Cost not stated. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owners, Benj. G. McDougall and Arthur Arlett. Property on the west line of Third street south of Tehama, covering an area of 68 by 195 feet, has recently been purchased by the above and preliminary plans have been prepared for a motion picture theatre and commercial garage in the rear. Construction will not be started until tenants for both buildings have been secured. Further mention will be made of the work.

SAN FRANCISCO—Municipal opera house, Class A construction, $1,000,000. Architect not selected. Owners, Municipal Opera House Association, Gavin McNabb and William H. Crocker are interested in a plan to revive interest in the scheme to build a municipal opera house and report very favorable success in the enterprise. Nearly all of the original 2,500 subscribers have been interviewed and give assurance of renewing their subscriptions. Should the new scheme materialize plans will probably be prepared by Architect Willis Polk, who furnished the plans for the original building.

SEALED PROPOSALS

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by the Board of Trustees of the Newcastle School District at Newcastle, Cal., at the residence of Mrs. Hazel S. Schnabel up to and including the hour of **12 o'clock, noon, Saturday, May 13th, 1916,** said bids then and there to be opened and read for furnishing all plant, materials and labor and doing all the work required for the complete construction and erection of a One Story Grammar School at Newcastle, Cal., in accordance with the plans and specifications therefor, copies of which may be obtained on application to Mrs. Hazel S. Schnabel, Newcastle, California.

All bids must be submitted on forms prepared for this work.

Cash or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid. A deposit of $5.00 will be required on plans and specifications to be returned immediately on return of documents in good condition on or before May 13, 1916.

The Board reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to Mrs. Hazel S. Schnabel, Newcastle, Cal., and plainly marked on the envelope, Proposal for Grammar School, Newcastle, Cal.

(Signed) W. E. LININGER,
F. H. HOWELL,
HAZEL S. SCHNABEL.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction, complete, of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the acting supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR VACUUM CLEANING

VACUUM SYSTEM — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 8, 1916,** for a vacuum cleaning machine in the United States post office and court house at Los Angeles, Cal., in accordance with the specification, copies of which may be had at this office or at the office of the custodian at Los Angeles, Cal., in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR DREDGING.

DREDGING—U. S. Engineer Office, 723 Central Building, Los Angeles, Cal. —Sealed proposals for dredging in Los Angeles Harbor, California, will be received here until **11 a. m. May 10, 1916,** and then opened. Information on application.

PROPOSALS FOR BUILDING.

BUILDING — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 18, 1916,** for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR WOOD STAVE PIPE.

WOOD STAVE PIPE—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service at Fort Shaw, Mont., until **2 o'clock p. m. May 5, 1916,** for the construction of approximately 575 linear feet of 96-inch diameter continuous wood stave pipe for the Sun River project, Montana. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Shaw, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR BUILDING.

BUILDING—Fort Huachuca, Ariz.—Sealed proposals will be received here until **1 p. m. May 15, 1916,** for furnishing materials and labor and constructing, complete, two double captains' quarters, four stable, guard and shop buildings, administration building, quartermaster corps barracks, and laundry. For information address constructing quartermaster.

PROPOSALS WANTED FOR SUPPLYING FURNITURE FOR CITY HALL.

SEALED PROPOSALS are hereby invited by the Board of Supervisors of the City and County of San Francisco for supplying furniture for the City Hall; said proposals will be opened in open session of the said Board on **May 1, 1916, at 3 P. M.**

Proposal blanks furnished on application.

J. S. DUNNIGAN, Clerk.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal. — SEALED PROPOSALS, in triplicate, for constructing four field officers' and eight double sets officers' quarters at Presidio of San Francisco, Cal., will be received here **until 11:00 A. M., May 18, 1916,** and then opened. Further information on application. (*)

NOTICE TO CONTRACTORS.

SEALED BIDS will be received at the office of Lewis P. Hobart, Crocker Building, San Francisco, **at or before 11 A. M., Tuesday May, 2nd, 1916, for the erection of the Hillsborough District School,** situated in the Town of Hillsborough, County of San Mateo, as per plans and specifications on file at said office.

A deposit of $25.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon return of said plans and specifications accompanied by a regular bid for the work. No bid will be received unless accompanied by a certified check or bond in favor of the undersigned equal to 10% of the bid, to

secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

BOARD OF TRUSTEES, HILLSBOR-

NOTICE TO CONTRACTRS.

SEALED PROPOSALS will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., **until May 20, 1916,** for constructing one concrete and two wooden buildings, and sewer and water system at the naval radio station, Cordova, Alaska. Plans and specifications may be obtained on application to the Bureau of Yards and Docks, Washington, or to the commandant, navy yard, Mare Island, Cal.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 8, 1916.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction complete of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1031 — Proposals for Boiler Tubes, Sheet Copper, Copper Nails, Malleable Iron Castings, Missing Links, Turnbuckles, Twist Drills, Pipe Tongs, Post-Hole Diggers, Garbage Cans, Electric Cable, Wire Transformers, Watthour meters, Electric Switches, Electrical Attachments, Slate, Vitrified Sewer Pipe, Magnesia Pipe Covering, Flax Packing, Plate Glass, Buckskin Gloves, Chrome Yellow, Paper and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. April 26, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1031) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR LIGHT FIXTURES.

LIGHT FIXTURES—Treasury Department, Supervising Architect's Office, Washington, D. C.—Sealed proposals will be opened in this office at **1 p. m. May 2, 1916,** for furnishing light ing in the United States post office at Denver, Colo., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the custodian, Denver, Colo., in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Sealed proposals indorsed "Proposals for Three Radio Buildings" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. May 20, 1916,** and then and there publicly opened, for constructing one concrete, two wooden buildings and sewer and water systems at the naval radio station, Cordova, Alaska. Plans and specifications can be obtained on application to the bureau or to the commandant, navy yard, Mare Island, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 18, 1916,** for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK — Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Powell, Wyo., until **2 o'clock p. m. May 3, 1916,** for the construction of structures on the Shoshone project, Wyoming, involving about 16,000 cubic yards of excavation, 1,500 cubic yards of reinforced concrete, 5,500 square yards of paving and the placing in wooden structures of about 120,000 feet., B. M., of lumber. The work is located near the stations of Garland, Mantua, Frannie, Deaver and Cowley, Wyo., on the C. B. & Q. Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Powell, Wyo. A. P. DAVIS, chief engineer.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Tuesday, May 2, 1915,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(SIGNED) W. F. McCLURE, State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Monday, May 8th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two New Stairs to Basement," Exposition Building, Agricultural Park, Los Angeles, California, in accordance with plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and al bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two New Stairs to Basement,' Exposition Building, Agricultural Park, Los Angeles, California."

(Signed) W. F. McCLURE, State Engineer.

NOTICE TO CONTRACTORS.

THE OPENING OF BIDS FOR THE construction and erection of the Armory, Stockton, California, heretofore set for **Tuesday, May 2nd, 1916, at 12 o'clock, noon,** is hereby postponed until **Thursday, May 4th, 1916, at 12 o'clock, noon.**

This postponement is necessary, because of the fact that section 13 of chapter 2, enacted at the extra session of the Legislature, held in January, 1916, provides that the first May presidential primary election to be held under the provisions of the act shall be held on the second day of May, 1916, and said presidential primary election, being a general State election, the second day of May, 1916, is, therefore, a legal holiday.

(Signed) W. F. McCLURE, State Engineer.

April 6th, 1916.

PROPOSALS FOR STEEL TOWERS.

SEALED proposals will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **April 29, 1916,** for constructing two 400-foot steel towers at the Pacific coast torpedo station, Keyport, Wash. Plans and specifications may be obtained on application to the Commandant, Navy Yard, Bremerton, Wash., or to the Bureau of Yards and Docks, Washington.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednesday, May 3, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Four Sanitary Hospital Cottages and Six Sanitary Cottages," Veteran's Home of California, Yountville, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's Bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, envelope: "Proposal for 'Four Sanitary Hospital Cottages and Six Sanitary Cottages,' Veteran's Home of California, Yountville, California."

(SIGNED) W. F. McCLURE, State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Tuesday, May 2, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the Armory, Stockton, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by

the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Armory,' Stockton, California."

(Signed) W. F. McCLURE,
State Engineer.

NOTICE.

The opening of bids on the Stockton State Armory has been postponed to Thursday, May 4th, due to May 2nd being a Holiday.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, May, 1, 1915,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Boiler Plant Equipment," Power House, Norwalk State Hospital, near Norwalk, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Twenty ($20.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

"ORIENTYPE" INVENTED IN HAWAII

A new invention, designed to set the thousands of type characters used by Japanese, Chinese, and Chosen printers, has been set up recently in the printing office of the Hawaii Shinpo, a Japanese daily published in Honolulu, Hawaiian Islands. It has been named the "Orientype" by the inventor.

S. Sheba, editor of the Hawaii Shinpo, was able to realize in material form the dream of years, a machine which he believes will revolutionize oriental printing, after a visit to the Panama-Pacific Exposition at San Francisco in 1915. He visited Machinery Hall many times, and after seeing so vast an array of machines he was able to formulate in his mind the manner in which some of the intricate parts of his typesetting invention should be made. Under his personal supervision the original model was made in Honolulu, and a real machine was manufactured in San Francisco. The inventor proposes to obtain a patent.

Looks Like Model of Suspension Bridge.

The machine, to some extent, looks like a model of Brooklyn Bridge. In the center and below the "bridge" appears a keyboard. This is to extend the full length of the "bridge," and the operator will use a sliding seat set in grooves. The pieces of type are placed in rectangular-shaped tubes of brass and are released by springs, in their turn released by the keyboard. The type is carried to one end of the bridge on a perpetual belt carrier and then falls into a part of the mechanism which resembles the familiar type-holding part of the linotype.

As there are 5,000 characters in use by Japanese and Chinese printers, Mr. Sheba has also invented a system of classification of type into about 100 units. These are collected in the rectangular tubes. The tubes are again classified by notches on the outside, somewhat after the form of those on Yale keys. These fall upon a set of wires and are carried on these by the notches. In this way the filled tubes are classified and the operator then selects a number of tubes, places them over the typesetting machine, their lower openings set so that the springs released by the keyboard set them upon the endless belt and the characters are carried to the receiving fonts.

The inventor is preparing his machines so that in the near future, with the entire affair placed in a merchantable form, his product will be disposed of not only in Japan, China, and Chosen, but also in the United States, as there are Oriental printing companies upon the American mainland. He hopes to displace the old laborous system of selecting, setting up, and assembling type characters.

UNITED STATES PUBLIC HEALTH SERVICE.

Seventy-six out of eighty-seven cases of typhoid fever which occurred in a recent outbreak have been traced by the United States Public Health Service to infected milk. Had the first cases been reported to a trained health officer the outbreak could have been stamped out promptly. When will we learn that disease prevention is sure and cheap

The chestnut blight has already done damage estimated as close to $50,000,000. The disease attacks both American and European species but does little damage to those from Japan and China. Plant breeders by crossing Japanese chestnut and native chinquapin have produced resistant trees. Some of the Chinese chestnuts are said to grow 100 feet high in their home forests.

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Leave	Daily except as noted.
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8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCE — 1 story and base, frame, $2,800. San Francisco. Architect, none. Owner, Jacob H. Thorup, 281 26th avenue, S. F. Location, east 24th avenue north of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. San Francisco. Architect, W. E. Hansen, 1882 Church street, S. F. Owner, Carl Christensen. Location, west 19th avenue north of Ulloa. Will contain eight rooms, bath and basement garage. Interior finish pine, white enamel and hardwood. Hardwood floors in the principal rooms. Furnace heat and open fire places. Mantels tile and brick. Bath room tile floor and wainscot. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, Victor Holmgren, 1239 Athens street, S. F. Location, northeast corner of Brunswick and Naples. Will contain six rooms and bath. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architect, none. Owners, Pockman & Co., 37th avenue and Geary street, S. F. Location, southeast Clement and 40th avenue. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $22,000. San Francisco. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, Presidio Terrace Will contain fourteen rooms, several baths, sleeping porch and conservatory. A separate garage will be erected on the property. Interior finish hardwood and white enamel. Hardwood floors throughout except in the bath rooms which will be finished in tile. A central heating system, probably hot water with an oil burning furnace, will be installed. Hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, John Mowat, 52 Webster street, S. F. Location, north Arlington east of Natick. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, M. Cain, 1281 21st avenue, S. F. Owner, Michael Cain, 1281 21st avenue, S. F. Location, east 19th avenue north of Taraval. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, D. J. Clancy. Location, east 19th avenue south of Balboa. Will contain seven rooms, bath and basement garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. San Francisco. Architect, none. Owners, Finance & Realty Development Co., Phelan Bldg., S. F. Location, south Balboa west of 19th avenue. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Tile wainscot in the bath rooms. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE ADDITION — 2 story and base, frame, $20,000. San Francisco. Architect, J. F. Dunn, Monadnock Bldg., S. F. Owner's name withheld. Location, Page near Stanyan. Will contain two and three room apartments. Interior finish pine. Some hardwood floors. Steam heat and hot water system. Bath rooms tile and composition. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, north Clay west of Hyde, covering an area of 34 by 90 feet. Will contain twelve modern apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms finished in tile with composition floors. Wall beds. Marble and tile wainscot in the entrance. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

APARTMENT HOUSE—3 story and base, frame, $13,000. San Francisco. Architect, none. Owner, Henry Scholten, 1522 Santa Clara avenue, Alameda. Location, south Mission near 14th street, covering an area of 34 by 84 feet. Will contain twelve apartments of two and three rooms. Interior finish pine and redwood. Some hardwood floors. Steam heat and hot water supply. Bath rooms composition floors. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

HOSPITAL GENERAL CONSTRUCTION—4 story and base. Class A construction. Cost not stated. San Francisco. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. New bids are now being called for by the Board of Public Works for the general construction of the southeast wing of the San Francisco Hospital. Bids will be opened on May 3rd.

HOSPITAL LIGHTING FIXTURES—$1,000. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owners, City and County of San Francisco. Plans are now being prepared for the lighting fixtures to be installed in the Pathological ward of the San Francisco Hospital. Bids will be called for shortly.

FLATS—2 story and base, frame, $6,000. San Francisco. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, southwest Lincoln Way and Irving. Will contain two flats of five and six rooms. Interior finish pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Basement garage. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, W. J. Cuthbertson, 328 Montgomery St., S. F. Owner, J. H. Plattner. Location, east 9th avenue north of Lawton, covering an are of 25 by 55 feet. Will contain two flats of five and six rooms and basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $9,000. San Francisco. Architect, Joseph Cahen, 45 Kearny St., S. F. Owner, Milton Auerbach. Location, Lake and 9th avenue. Will contain two modern flats of six rooms, bath and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with shiplap and ce-

ment plaster. Plans complete and figures being taken.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, none. Owner, A. C. Hurrell, 648 10th avenue, S. F. Location, east 10th avenue south of Balboa, covering an are of 25 by 64 feet. Will contain two flats of five and six rooms with basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water beaters. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $2,500. San Francisco. Architect, Italo Zanolini, 604 Montgomery street, S. F. Owner, G. Ronconi. Location, north Telegraph west of Kearny. Will contain two small flats. Interior finish pine and redwood. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, H. E. Harris, Monadnock Bldg., S. F. Owners, Anderson & Johnson, 236 Church street. Location west 9th avenue south of Cabrillo, covering an area of 25 by 59 feet. Will contain two flats of five and six rooms and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and composition floors. Automatic water beaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

OFFICERS' QUARTERS—12, 2 story and base, brick or hollow tile. Cost not stated. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Plans have been completed and are now out for figures for eight sets of double officers' quarters and four sets of field officers' quarters to be erected in the Presidio of San Francisco. Interiors will be finished in pine and hardwood with hardwood floors. There will be central heating systems, hot water supply and open fire places. Mantels tile and brick. Bath rooms tile. Exteriors faced with pressed brick or cement plaster. Clay tile or slate roofs. Plans can be secured from the office of the Constructing Quartermaster at Fort Mason. Bids open on May 18th at 11 a. m. An official proposal appears in another column of this issue.

APARTMENT HOUSE—4 story and base. Class C construction, $40,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, Theo E. Kulfs. Location, west Leavenworth north of Sutter, covering an area of 39 by 90 feet. Will contain a total of sixteen modern suites of two and three rooms. Interior finish gum throughout. Hardwood floors. Steam heat from city street supply, hot water system and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot. Ornamental plaster in vestibule and lobby. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be taken at once.

RESIDENCES 3, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, west 28th avenue north of California. Each dwelling will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile with composition floors. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, Thomas Sweeney, 1387 Sanchez street, S. F. Location, east Church street south of Randall. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water beater. Exterior covexer with cement plaster. Plans complete and work to be done by Day Labor.

WAREHOUSE—2 story and base, brick. Cost not stated. San Francisco. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, Progress Realty Co. Location, Cook street, between 3rd and 4th streets, covering an area of 55 by 120 feet. Elevator service. Metal window sash and frames. Exterior faced with stock brick. Plans being prepared.

WAREHOUSE—3 story and base, reinforced concrete, $126,000. San Francisco. Engineer, George Wagner, Hearst Bldg. Owners, Clinton Construction Co., 140 Townsend street. Location, east Third street between Townsend and Brannan, covering an area of 137 by 160 feet. Construction fireproof. First floor arranged for offices. Metal window sash and frames and metal cover doors. Elevator service, special conveyor machinery, steam heat, oil burning system and stand pipes. Exterior faced with cement plaster. Plans are complete and the owners are taking figures for all parts of the work except concrete work and brick.

QUARTERS AND ADMINISTRATION BUILDINGS—Concrete and frame. Cost not stated. Fort Huachuca, Ariz. Architect, Constructing Quartermaster, Fort Huachuca. Owners, United States Government. Sealed proposals will be received here until 1 p. m. May 15, 1916, for furnishing materials and labor and constructing, complete, 2 double captains' quarters, 4 stable, guard and shop buildings, administration building, quartermaster corps barracks and laundry. For information address Const. Q. M.

OFFICES—12 story and base. Class A construction, $250,000 to $300,000. San Francisco. Architect not selected. Engineer, Pierre Zucco, 166 Geary St., S. F. Owner, represented by San Francisco Savings Union. Location, southwest corner of Market and Second streets, covering an area of 45 by 91½ feet. Engineering plans sufficient to enable the letting of a contract for the structural steel work have been prepared and the steel contract awarded to Dyer Bros. for approximately $90 per ton for 600 tons. No further details can be given until the selection of an architect has been made.

STORES AND OFFICES—19 story and base. Class A construction. Cost not stated. San Francisco. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owners' names withheld. The architect is working on preliminary plans for a proposed 19-story Class A structure designed for the exclusive use of physicians and surgeons, which is to be erected in San Francisco. The Parrott Estate's property at the northeast corner of Powell and Post streets, 162 by 137-6 feet, is given as the site of the building. At the offices of the Parrott Estate no confirmation of the report could be obtained. Architect Morrell stated on the phone that preliminary plans were underway, but that details of the big project could not be given at this time.

STORES—1 story and base, brick, $7,500. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner's name withheld. Location, east Hyde 87½ north of Ellis, covering an area of 25 by 87½ feet. Will contain one store. Interior finish pine and jenisero. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

THEATRE—1 story and base. Class A construction. Cost not stated. San Francisco. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owners, Benj. G. McDougall and Arthur Arlett. Property on the west line of Third street south of Tehama, covering an area of 68 by 195 feet, has recently been purchased by the above and preliminary plans have been prepared for a motion picture theatre and a commercial garage in the rear. Construction will not be started until tenants for both buildings have been secured. Further mention will be made of the work.

MUNICIPAL OPERA HOUSE—Class A construction, $1,000,000. San Francisco. Architect not selected. Owners, Municipal Opera House Association. Gavin McNab and William H. Crocker are interested in a plan to revive interest in the scheme to build a municipal opera house, and report very favorable success in the enterprise. Nearly all of the original 2,500 subscribers have been interviewed and give assurance of renewing their subscriptions. Should the new scheme materialize, plans will probably be prepared by Architect Willis Polk, who furnished the plans for the original building.

Contracts Awarded.

COURT HOUSE—3 story and base. Class A construction, $300,000. Prescott, Ariz. Architect, William M. Bowman, Denver, Colo. Owners, Yavapai County. Despite the fact that the cost of construction of the new county court house will exceed the amount available by over $50,000, contracts have been awarded by the Board of Supervisors as follows: Rogers & Ashton of Denver, Colo., general contract at $180,000. Other contracts were awarded as follows: Simplex metal windows to U. S. Metal Products Co. of Los Angeles at $7,237; plumbing and heating to J. D. Potter Plumbing and Heating Co of Denver at $14,890; metal doors and trim to the Interior Metal Manufacturing Co. of Jamestown, N. Y., at $17,245; electrical work and fixtures to Vyne Bros. of Prescott at $3,100.

BRIDGE REPAIRS — $2,487. San Francisco. Engineer, City Dept. of Engineering, City Hall. Owners, City and County of San Francisco. Contractors, Thomson Bridge Co., 103 Main street, S. F. Contract price, $2,487.

OAKLAND AND ALAMEDA COUNTY

UNDERPASS — Reinforced concrete. Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be opened on May 15th for the construction of a concrete underpass to be constructed under the tracks of the Central Pacific Railway Co. west of Niles, in Washington Road District in Alameda County.

STREET PAVING—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Despite the protests of property owners, the City Council ordered the immediate paving of Madison street, between 12th and Lake streets, and a resolution ordering the work was ordered. Bids will be called for shortly.

STREET WORK—Cost not stated. Oaklond, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed resolutions of intention providing for the installation of culverts, oil macadam paving, storm water inlets, etc., in the following streets: East 16th street, between Fruitvale avenue and the southeast boundary line of the City of Oakland. Thirty-third avenue, between East 14th street and East 8th street, and East 10th street, between Fruitvale avenue and 33rd avenue. East 12th street, between 13th and 23rd avenues, and 19th avenue from East 12th street southwesterly. Bids on this work will be called for shortly.

LIGHTING POST—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has passed a resolution of intention to construct lighting posts on Grove street, between 47th street and the northern boundary line of the City of Oakland, and on West street adjacent to Grove street. Bids will be called for shortly.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, R. C. Miles, Central Bank Bldg., Oakland. Owner, A. G. Mahan. Location, Everett and Lindwood streets. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures to be called for at once.

RESIDENCE — 1 story and base, frame, $1,500. Albany, Alameda Co., Cal. Architect, none. Owner, I Ariel Kellogg, 3401 Champion street, Oakland. Location, west Pomona south of Main. Will contain five rooms and bath. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Bella Vista Park Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCES—3, 1 story and base, frame, $1,600 each. Oakland, Cal. Architect, none. Owners, Syndicate Investment Co., 1520 Broadway, Oakland. Location, east 86th avenue south of Holly. Each house will contain four rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire places and tile or brick mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, James Thompson, 4017 Lyon street, Oakland. Location, south Lyon east of 38th avenue. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,500. Oakland, Cal. Architect, Chester H. Miller, First Trust and Savings Bank Bldg., Oakland. Owner's name withheld. Location, Grand avenue Will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,200. Alameda, Alameda Co., Cal. Architect, none. Owner, C. M. Jenkins, 1516½ Park street, Alameda Location, 2312 Eagle street. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. White enamel in the bed rooms. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—6, 1 story and base, frame, $2,100 each. Oakland, Cal. Architect, none. Owner, C. M. McGregor, 470 13th street, Oakland. Location, north Elbert west of Everett. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine and hardwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile or brick mantels. Some tile in the bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1½ story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, William H. Sims, 1926 64th avenue, Oakland. Location, east Fairfax north of Ygnacio. Will contain eight rooms, bath and sleeping porch. Interior finish hardwood and pine with white enamel in the bed rooms. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, C. C. Adams, 3200 Fernside Boulevard, Alameda. Location, 1805 Wood street. Will contain four rooms, bath and sleeping porch. Interior finish pine and elm panels with white enamel in the bed rooms. Open fire place and tile mantel Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET PAVING, ETC.—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 4th for street improvements under the following resolution: That Madison street, from the northern line of 12th street to the southern line of Lake street, be graded, curbed with concrete curbs, guttered with brick gutters 14 inches wide and paved with asphalt.

RESIDENCE — 2 story and base, frame, $3,500. Piedmont, Alameda Co., Cal. Architect, none. Owner, Y. N. Strang, 1521 9th street, Oakland. Location, north Wildwood between Grand and Neva. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, C. Kahisins, 4480 Pleasand Valley Court, Oakland. Location, south Taft west of Broadway. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire place. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, north Francisco west of Sacramento. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire plac and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owners, Reed & Wilson, 409 8th street, Oakland. Location, west Brown avenue north of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Piedmont, Alameda Co., Cal. Architect, none. Owner, Robert Chandler, 568 12th street, Oakland. Location, Nova Piedmont. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, none. Owner, Leonard Asumaa, 760 60th street, Oakland. Location, south Harwood west of Ross. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick.

Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Piedmont, Alameda Co., Cal. Architect, none. Owner, J. Rickabaugh, . M. C. A., Oakland. Location, west San Carlos between Oakland and Magnolia. Will contain seven rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor & Elrod, Syndicate Bldg., Oakland. Location, east Spruce north of Cleveland. Each house will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms finished in tile. Mantels tile and brick. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner's name withheld. Location, Northbrae. Will contain seven rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors in the principal rooms. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE AND STORES —2 story, frame, $6,400. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, East 14th street. Will contain two stores on the ground floor and four modern apartments on the upper floor. Interior finish pine. Some hardwood floors. Gas steam radiators. Wall beds. Exterior covered with cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $33,000. Oakland, Cal. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, College avenue. Will contain stores on the first floor and a number of two and three room apartments on the upper floors. Interior finish pine, hardwood and white enamel. Some hardwood floors. Steam heat, oil burning system and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans being prepared.

APARTMENT HOUSE—2 story and base, frame, $8,000. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. Heijne. Location, 41st and Webster streets. Will contain eight suites of two and three rooms with wall beds and private bath rooms. Interior finish pine, elm panels and white enamel. Some hardwood floors. Steam heat and hot water supply. Composition floors in the bath rooms. Marble and tile wainscot. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame and plaster, $10,000. Piedmont, Alameda Co., Cal. Architect, Walter D. Reed, Oakland Bank of Savings, Oakland. Owner, Robert J. Tyson. Location, Piedmont. Will contain ten rooms, three baths, sleeping porch and separate garage. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, L. S. Walford, 1611 Central avenue, Alameda. Location, Broadway and Rockridge. Will contain seven rooms, bath and sleeping porch. A separate garage will be erected on the property. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Central heating system. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

STABLES AND SHOP—1 story, brick and steel, $10,000. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owners, City of Berkeley. The building will be erected in the Corporation Yard in West Berkeley and will cover a considerable ground area. Plans are now completed and figures will be called for shortly.

GARAGE—1 story and base, brick and steel, $20,000. Oakland, Cal. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, Henry Abramson. Location, 29th and Broadway. Designed for a commercial garage and will cover a considerable ground area. Construction will be fireproof. Complete steel frame and brick exterior walls. Concrete floor. Special gasoline tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans complete and figures being taken.

LIBRARY HEATING, ETC.—Cost as follows. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids were opened on April 19th for the heating and ventilating and electric work in the new University Library. Scott Co., S. F., were low for the heating and ventilating at $29,880, and Ne Page-McKinney, S. F., low on the electric work Contracts will probably be awarded. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

SCHOOLS—2, 1 story and base, brick and reinforced concrete, $35,000 each. San Leandro, Alameda Co., Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Revised plans for these buildings have been completed and figures are now being called. New bids will be opened on May 1st at 2:30 p. m. Plans can be secured from the office of the architect.

SAN JOSE AND THE SANTA CLARA VALLEY

DRAINAGE DITCH—Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Supervisors have instructed the County Surveyor to prepare plans and specifications for a drainage ditch between Supervisor's Districts No. 4 and 5, from the Mountain View and Alviso roads to the bay, also for a drainage ditch in Supervisor District No. 3 through the lands of Meads, Richards and Shields, also a survey for a drainage ditch from the Foxworthy road to the Guadalupe Creek on the Almaden road. Bids will be called for shortly on this work.

RESIDENCE — 1 story and base, frame, $2,300. Millbrae, San Mateo Co., Cal. Architect, W. S. Rhodes, 3372 16th street, S. F. Owner, Henry Gibson. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

JAIL—2 story and base, reinforced concrete and steel, $60,000. Redwood City, San Mateo Co., Cal. Architect, Will H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Construction fireproof. Will contain office of the sheriff, guard room, court room and separate departments for male and female prisoners. Interior finish pine, hardwood and tile. Steam heat, oil burning plant, hot water system and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures being taken.

Bids Received By U. Of C. Regents.

Total of Thirteen Sets of Figures Received for Heating, Ventilating and Electric Wiring on U. of C. Library.

Bids were received on April 19th by the Regents of the University of California for the heating and ventilating and for electric work in connection with the completion of the University Library on the campus at Berkeley. Thirteen bids were received and show Scott Co., 243 Minna street, San Francisco, low on the heating and ventilating at $29,880 and Ne Page-McKinney Co., 149 New Montgomery street, San Francisco, low on the electric work at $20,426. Following is a complete list of the bids received.

Heating and Ventilating U. of C. Library.

Scott Co.	$29,880
J. E. O'Mara	30,343
Robert Dalziel Jr.	30,987
H. Wason	31,000
Mangrum & Otter	32,393
Turner Co.	32,400

Electric Wiring, U. of C. Library

Ne Page-McKinney Co.	$20,426
McFell Elec. Co.	20,958
Butte Eng. & Elec. Co.	22,315
Turner Co.	23,155
F. E. Newberry Elec. Co.	23,180
H. S. Tittle	24,159
F. C. Porter	24,890

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENT — Cost as follows. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The Northern Improvement Club has rejected the bid of Flynn & Treacy, First National Bank Bldg., S. F., for the paving of Alabama street. According to Flynn & Treacy, the total cost per lot for street paving in the northern district will average between $225 and $245, while corner lots with a 50-foot frontage will cost about $345. The figure includes grading at 60c per cubic yard, concrete curbs at 40c per lineal foot, and 4 inches of concrete and an inch of Topeka dressing for 12½c a square foot.

STREET IMPROVEMENT — Cost as follows. Antioch, Contra Costa Co., Cal. Engineer, Town Engineer, Antioch. Owners, Town of Antioch. At the last meeting of the City Board of Trustees two bids were presented by the Raisch Improvement Co., 1108 Crocker Bldg., S. F., one for improving practically two blocks in front of the paper mill office and the other, the block alongside of the Santa Fe station. These were the only bids submitted and both were higher than the present work, being as follows: Grading, cut, 45c; grading, fill, 15c; pavement, 12c; gutters, 17c per square foot; curbing, 40c per lineal foot; culverts, $1.70 per lineal foot. Bids were taken under advisement.

SEWER CONSTRUCTION—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Monday, May 1st, is the date set on which the City Council will open bids for constructing sewers in Everett alley, between Sacramento and Marin and Pennsylvania and Maryland street and in Solano avenue, 8th, Chase and Main streets. Plans may be had from the City Clerk at Vallejo.

SEWER CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, ity Engineer, Richmond. Owners, City of Richmond. At the last meeting of the City Council plans for the installation of sewers in the Wall additions, Pullman townsite, and Coleman-Pullman tracts were approved by the Council and the City Engineer ordered to call for bids. Plans may be had from the City Clerk or Engineer.

STREET IMPROVEMENTS—Cost not stated. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. At the last meeting of the City Trustees plans and specifications for the improvement of Central avenue and West street were adopted. Plans and specifications for the improvement of North street were also adopted. Bids on this work were taken sometime ago and were rejected. The lowest bid was $15,377.78.

STREET IMPROVEMENT—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council, on the submission of plans and specifications of the City Engineer for a sewer on Douglas street, fram Fair to Hinman, and the improvement of Douglas street, resolutions of intention for said improvement were passed.

WAREHOUSE—1 story. Class A construction. Cost not stated. Pinole, Contra Costa Co., Cal. Architect, James T. Narbett, 704 Macdonald avenue, Richmond. Owner, A. Greenfield. Complete steel frame and brick exterior walls. Exterior faced with stock brick. Plans being prepared.

STORE, HOTEL AND APARTMENTS —3 story and base, brick and concrete, $40,000. Vallejo, Solano Co., Cal. Engineer, Frederick Whitton, 251 Kearny street, S. F. Owners, Solano Brewing Co. Location, northwest corner of Georgia and Sonoma streets, covering an area of 53 by 130 feet. Will contain several stores on the first floor and single rooms and apartments on the uupper floors. Interior finish pine and elm panels. Steam heat, oil burning system and hot water supply. Bath rooms tile. Some wall beds. Patent store fronts and marble bases. Exterior faced with pressed brick. Excavating let to P. H. Hoare, Oakland, and concrete foundation work let to J. H. Parsons and Elmer E. Marshall, Vallejo. Other parts of the work being figured

STORES AND APARTMENTS — 2 story and base, brick and steel, $40,000. San Rafael, Marin Co., Cal. Architect, Milton Lichtenstein, 111 Ellis street, S. F. Owners, Herzog & Rake. Location, northwest 4th and B streets, covering an area of 150 by 100 feet. Will contain a modern department store on the ground floor and a number of two and three room apartments on the second floor. Interior finish pine and hardwood. Steam heat and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

HOSPITAL COTTAGES — 1 story, frame and concrete, $26,262. Napa, Napa Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Of the fourteen sets of figures received April 17th for constructing cottages for males and females at the Napa State Hospital, the bid presented by L. G. Bergren & Son, Hearst Bldg., S. F., was the lowest at $26,262. They will probably be awarded the contract. A complete list of the bids received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

LIBRARY—1 story, concrete and brick. Cost not stated. Martinez, Contra Costa Co., Cal. Architect's name not given. Owners, Town of Martinez. Bids are being called for to be opened on May 15th for the construction of a library building. Carnegie donated $2,500 towards the construction and the local people have increased this amount. Complete information and plans and specifications can be secured from the County Clerk.

Contracts Awarded.

HOSPITAL NURSES' COTTAGE — 1 story, reinforced concrete, $19,481. Eldridge, Sonoma Co., Cal. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. Contractors, Carnahan & Mulford, 45 Kearny street, S. F. Contract price, $19,481.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CNSTRUCTION Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bekersfield. Owners, Kern County. Bids will be opened on May 1st at 11 a. m. for grading, paving and construction of culverts on Division 3, Section 1, Wasco-Lost Hills road, being that portion lying between the Semitropic School and Lost Hills (length approximately 11 miles)

IRRIGATION DAM—Reinforced concrete, $6,000,000. Dinuba, Tulare Co., Cal. Engineer's name not given. Owners, Alta Irrigation District. Resolutions have been adopted by the officials of the Alta Irrigation District, approving plans for the construction at Pine Flat on Kings River of a storage reservoir to cost $6,000,000 and to impound 400,000 acre feet of water. The project is being promoted by L. A. Nares of Fresno. I. Teilman, of the Fresno Irrigation and Canal Company, is interested in the proposed work. Further meetings will be held by the officials to work out the finances. Further mention will be made of this work.

APARTMENT HOUSE—2 story and base, concrete block, $6,000. Reedley, Fresno Co., Cal. Architects, Boast & Huey, Reedley. Owner, John Parenti. Location, 11th and I streets, covering an area of 30 by 100 feet. Will contain apartments of two and three rooms with private baths and sleeping porches. Interior finish pine. Some hardwood floors. Hot water supply. Composition floors in the bath rooms. Wall beds. Exterior faced with cement plaster. Plans being prepared.

HOSPITAL ADDITION — 1 story, frame. Cost not stated. Bakersfield, Kern Co., Cal. Architect, Thomas B. Wiseman, 1933 Chester street, Bakersfield. Owners, Kern County. At the last meeting of the County Board of Supervisors plans for a small addition to the county hospital building, to be used as a laboratory, were approved by the Board and bids will be received until 10 o'clock May 2nd.

BANK AND OFFICES—2 story and base, brick, $10,000. Riverdale, Fresno Co., Cal. Architect, G. L. Clark, Brower Bldg., Bakersfield. Owners, First National Bank of Riverside. The entire first floor of the building will be occupied by the bank and the upper floor fitted up for offices. Interior finish pine and hardwood with special bank fixtures, vaults and ornamental plaster. Exterior faced with pressed brick. Plans are being prepared.

BRIDGE—Reinforced concrete and steel. Cost not stated. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. Bids will be received on May 3rd at 10 a. m. for the construction of a reinforced concrete bridge No. 46 across a slough on the Six Mile grade and about one mile north of Bear Creek bridge in Road District No. 1.

CHURCH—2 story and base, frame and plaster, $20,000. Merced, Merced Co., Cal. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Presbyterian Church Society of Merced. Will contain main auditorium, Sunday school rooms, pastor's study and social rooms. Interior finish pine and ornamental plaster. Art glass windows. Central heating system. Exterior cov-

ered with asbestos stucco. Plans being prepared.

COLD STORAGE ADDITION—1 story, reinforced concrete, $7,500. Fresno, Fresno Co., Cal. Architect, none. Owners, Western Meat Co. Besides the cold storage addition a concrete smoke house will also be erected. Exteriors will be faced with cement plaster. Plans are complete and work will be done by Day Labor.

Contracts Awarded.

STREET PAVING—Cost as follows. Visalia, Tulare Co., Cal. Engineer, City Walker, Lemoore. Contract price, $5,-330.42.

BRIDGES AND CULVERTS—$5,330.-42. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractor, H. E. Engineer, Visalia. Owners, City of Visalia. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract prices, paving, 11.9 cents; curb, 35 cents; gutter, 18 cents, and culverts, $1.00.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

BRIDGE—Steel and reinforced concrete. Cost not stated. Crescent City, Del Norte Co., Cal. Engineer, H. J. Brunnier, Sharon Bldg., S. F. Owners. Del Norte County. Bids will be received until May 8th at 10 a. m. for steel and concrete work on a bridge to be built across the Siskiyou Fork of Smith River near Gasquets. Concrete piers to be built according to supplemental plans. Plans on file at the office of the County Clerk.

BRIDGE—Steel and reinforced concrete. Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor Harry M. Malpas, Eureka. Owners, Humboldt County. Bids will be opened on May 8th for constructing a steel highway bridge 135 feet long with reinforced concrete abutments. The bridge will be erected over the Middle Fork of the Smith River. Plans at the office of the County Surveyor.

BRIDGE—Steel and reinforced concrete, $100,439.62. Eureka, Humboldt Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids were received on April 17th for constructing a steel span bridge, consisting of two spans each of 302 feet, and two reinforced concrete approaches in Humboldt County over the Eel River. The total length of the bridge will be 893 feet. Mercer-Frazer Co., Eureka, presented the low bid at $102,-825. Bids were laid over until the next meeting of the State Highway Commission. The engineer's estimate for the work was $100,439.62. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

CRUSHING AND DELIVERING ROCK—Cost not stated. Crescent City, Del Norte Co., Cal. Engineer, County Surveyor, Crescent City. Owners, Del Norte County. Bids will be received until May 8th at 10 a. m. for crushing and delivering 1200 yards of crushed rock on county road at points not more than one and a quarter miles from the chusher, which is located on Burtschell ranch, north of Smith River. Bid to give price on coarse, medium and fine. Work to be completed within 60 days after execution of contract. County to furnish crusher and spreader wagons. Contractor to keep machinery in repair at his own expense, and leave machinery in good repair at end of contract. Right reserved to roller at such times as necessary.

ROAD REPAIR—Cost not stated. Sacramento, Cal. Engineer, County Surveyor, Sacramento. Owners, Sacramento County. Bids will be received until May 1st at 10 a. m. for doing the repair work on the Lower Stockton road from the Five mile House to Franklin.

STREET IMPROVEMENTS — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Blds will be received until April 27th for street improvements under the following resolutions: That Orange avenue, from Lower Stockton road to 37th street, be improved by removing and disposing of all surplus and refuse material; constructing concrete curb on official line and grade, constructing concrete gutter, 8-inch vitrified ironstone sewer pipe drains, placing cast iron gutter drains, concrete manholes, complete, with cast iron curbs and covers, concrete sidewalk 3½ inches in thickness, grading and constructing an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches in thickness.

BRIDGE—Reinforced concrete. Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until May 9th at 2 p. m. for the construction of a reinforced concrete bridge across Little River in Road District No. 5.

RESIDENCE — 2 story and base, frame. Cost not stated. Eureka, Humboldt Co., Cal. Architects, E. J. Burke & Michelsen, 432 H street, Eureka. Owner, George Belcher. Location D street near Huntoon. Will contain nine rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and furnace heat. Mantel tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame. Cost not stated. Arcata, Humboldt Co., Cal. Architects, E. J. Burke & Michelsen, 432 H street, Eureka. Owner, Paul Brizard. Will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

RESIDENCE — 1 story and base, frame, $1,200. Sacramento, Cal. Architect, none. Owner, George Baldáni, 1731 Dewey street, Sacramento. Location, Wright and Kimball Tract No. 1. Will contain four rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Sacramento, Cal. Architect, none. Owner, C. D. McClung, 2528 Carnegie street, Sacramento. Location, 2528 Carnegie street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BRIDGE—Steel and reinforced concrete, $100,439. Enreka, Humboldt Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. A statement made at the Sacramento office of the State Highway Commission is to the effect that all bids for the construction of the Eel River bridge in Humboldt County will be rejected. The lowest figure was presented by Mercer-Frazer Co. at $102,825. The engineer's estimate was $100,439. Further mention will be made of the work when bids are readvertised.

DAIRY BUILDING—Frame and concrete. Cost not stated. Carlotta, Humboldt Co., Cal. Architects, E. J. Burke & Michelsen, 432 H street, Eureka. Owner, Charles Willis Ward, 2301 C street, Eureka. Will include bull and calf pens, concrete silos, hay barns and all necessary buildings for a model dairy farm. Plans are being prepared.

HOTEL ADDITION—1 story, brick, $8,000. Jackson, Amador Co., Cal. Architect, F. D. Voorhees, Central Bank Bldg., Oakland. Owner, A. Eudeym, Jackson. Will contain a number of single rooms. Interior finish pine. Heating system extended from present building. Exterior faced with stock brick. Plans complete and figures being taken.

SCHOOL—1 story and base, frame and plaster, $16,075. Fortuna, Humboldt Co., Cal. Architect's name not given. Owners, Fortuna School District. Ackerman Bros., Eureka, presented the low bid for the construction of the new school building in the Fortuna District and will probably be awarded the contract. A complete list of the bids received follows: Ackerman Bros., Enreka, $16,075; H. Williams, $16,744; Clark & Tollman, $16,-839.30; A. Schnoor, $16,899; M. Baldry, $17,225; Thomas Englehart, $18,000; Elsemore & Jacobs, $18,920.

SCHOOL—1 story and base, frame, $11,000. Newcastle, Placer Co., Cal. Architect, Allen D. Fellows, East Auburn. Owners, Newcastle School District. Will contain three class rooms and an assembly hall. Interior finish pine. Maple floors in the class rooms. No central heating system. Exterior covered with cement plaster. Plans complete and bids will be received until May 13th. Plans and specifications can be secured from the office of the architect.

Contracts Awarded

STREET IMPROVEMENT, PAVING, ETC.—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractor, A. Meiss, 1412 K street, Sacramento. Contract price not stated.

HIGHWAY CONSTRUCTION—$5,375. Roseville, Placer Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Ross Construction Co., Forum Bldg., Sacramento. Contract price, $5,375.

The increase in the demand for potash has resulted in a number of inquiries of Government officials concerning the amount of this chemical contained in wood ashes which may be available at sawmills operating on the National Forests.

ew Cottages For Napa State Hospital.

G. Bregren Son Present Low Figure For Constructing Cottages at Napa State Hospital.

SACRAMENTO, Cal., April 17th, 1916. Fifteen sets of figures were opened by e State Department of Engineering r the construction of cottages for ales and females to be erected at the apa State Hospital from plans by ate Architect George B. McDougall. G. Bergren & Son, Hearst Bldg., San rancisco, presented the low figure at 6,262. All bids were referred to the ate Architect. Following is a comete list of the bids received:

Cottages for Napa State Hospital.

. G. Bergren & Son, S F.	$26,262
al Franz, S. F.	27,415
eil A. McLean, S. F.	27,500
. A. Klyce, S. F.	28,967
ouis Cereghino & Son, S. F.	29,240
IcLeran & Peterson, S. F.	29,300
eo. W. Boxton & Son, S. F.	29,644
. Furlong, S. F.	29,800
Vard & Goodwin, S. F.	29,970
ert T. Owsley, S. F.	30,500
V. E. Kerr Constr Co., S. F.	30,866
. B. Nelson	31,578
Carnahan & Mulford, S. F.	31,884
tockholm & Allyn, S. F.	32,577
. L. Hansen, S. F.	38,415

Highway Commission Receives Figures.

Mercer-Frazer Co. Present Low Bid For Steel and Concrete Highway Bridge in Humboldt County.

(By Special Wire.)

SACRAMENTO, Cal., April 17th, 1916. —The following bids were opened by the State Highway Commission, Forum Bldg., for constructing a steel span and concrete highway bridge over the Eel River in Humboldt County. Mercer-Frazer Co. of Eureka presented the low figure at $102,825. All bids were taken under consideration. Six sets of figures were received.

The bridge will consist of two steel spans each 302 feet in length and two concrete approaches. The total length will be 893 feet. The engineer's estimate was $100,439.62.

Constructing Eel River Bridge.

Mercer-Frazer Co., Eureka	$102,825
McLeran & Peterson, S. F.	103,700
Frank L. Smith, Eureka	108,000
Ross Constr Co., Sacramento	108,810
C. E. Cotton, S. F.	109,900
Seabury Peterson, S. F.	122,960

LOS ANGELES & SOUTHERN CALIFORNIA.

VIADUCT—Steel and reinforced concrete. Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Sealed bids will be received by the Board of Supervisors of the County of Los Angeles up to 2 o'clock p. m. on May 8th, 1916, for furnishing all labor and materials necessary for the construction of a concrete viaduct on Western avenue over Ionia avenue, in Los Angeles County. Said bridge is to be constructed in accordance with plans and specifications on file in the office of the Board of Supervisors of said county, and bidders are referred to said plans and specifications for further information.

BRIDGE—Reinforced concrete. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. of May 1st for the construction of a reinforced concrete girder bridge across Zaca Creek at station No. 472-00, Section D, on the line of the state highway in the Third Road District, in accordance with plans and specifications on file at the office of the County Clerk, and which may be obtained upon depositing $10. Certified check for 10 per cent required.

BRIDGE ABUTMENTS — Reinforced concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to May 6th for the abutments to the Casitas and La Crosse bridges. The bids were ordered readvertised after the rejection of bids opened April 10th. J. B. McCloskey is Clerk.

BRIDGE—Reinforced concrete, $18,500. Santa Barbara, Santa Barbara Co., Cal. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A., and County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. of May 1 for the construction of a reinforced concrete girder bridge across Zaca Creek at station No. 310-5, Section D, on the line of the State highway, in the Fourth Road District, in accordance with plans and specifications on file with the County Clerk, which may be obtained from the County Surveyor upon deposit of $10.00. Certified check for 10 per cent required. C. A. Hunt is the ex-officio clerk of the board.

HOSPITAL GROUP—1, 2 and 3 story. Class A construction, $100,000. San Bernardino, San Bernardino Co., Cal. Architect, Lyman Farwell, Story Bldg., L. A. Owners, San Bernardino County. A complete revision of the plans for this group of buildings is necessary, and the architect is now at work on the new plans. The central portion of the main building will be retained as originally planned, the interior being rearranged to permit its use for general hospital purposes. The construction of the other buildings of the group will be abandoned for the present at least.

ICE MAKING PLANT—1 and 2 story and base, reinforced concrete, $100,000. Brawley, Imperial Co., Cal. Architects, C. N. Gay & Son, 395 Towne avenue, L. A. Owners, Holton Power Co. There will be a cold storage building 100 by 100 feet and 40 feet high of reinforced concrete construction; frame and corrugated iron building 80 by 100 feet, to contain the ice manufacturing machinery, and an icing dock 14 feet wide, 15 feet high and 860 feet long. Plans are being prepared.

COUNTRY CLUB—1 story, frame and plaster, $25,000. Brentwood, Los Angeles Co., Cal. Architects, Frank T. Kesley and Scott Gerrity, Consolidated Realty Bldg., L. A. Owners, Brentwood Country Club. Preliminary plans show a building designed in the patio style, containg large social rooms, banquet rooms and living apartments. Further mention will be made of the work when plans are completed.

BRIDGE, steel and reinforced concrete, $50,000. Santa Barbara, Santa Barbara Co., Cal. Engineers, Mayberry & Parker, Pacific Electric Bldg., L. A., and County Surveyor Johnson, Santa Barbara. Owners, Santa Barbara County. Mayberry & Parker and Engineer Johnston are preparing plans for the Quemada bridge. The structure will be 100 feet long, over all, and will have two big arches 75 feet high and 110 feet wide.

BRIDGE—Timber construction. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to 3 p. m. of May 10th for the construction of the Aliso Canyon bridge on Willoughby road. The work consists of one timber bridge 64 feet long. The approximate quantities are: 9,900 feet, B. M., Oregon pine lumber; 6,700 feet, B. M., redwood timber; 1,450 lbs. steel and iron; 515 cu. yds. earth fill; 176 lin ft. guard fence. Plans and specifications on file at the office of the Clerk. Copies and blue prints obtainable from the County Surveyor. Certified check for 10 per cent required. J. B. McCloskey is the Clerk.

SEWER LINE EXTENSION — Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. At the last meeting of the Supervisors a resolution was adopted for extending the sewer line from septic tank to the sewer farm, and bids for the work will be called for immediately. Plans for the work may be had from the City Clerk.

APARTMENT HOUSE—3 story and base, brick. Cost not stated, Los Angeles, Cal. Architect, August Wackerbarth, 202 North Main street, L. A. Owner, C. F. Gerecht, Fay Bldg., L. A. Location, southwest West Adams and La Salle streets, covering an area of 50 by 150 feet. Arranged for stores on the first floor and a number of two and three room suites on the upper floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning furnace and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 2 story and base, frame, $25,000. Altadena, Los Angeles Co., Cal. Architect, A. D. Hill, 775 South El Molino street, Pasadena. Owner, Mr. Sewell. Will contain sixteen rooms, five baths, sleeping porches and conservatory. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system, probably hot water, and hot water circulating system. Bath rooms finished in tile and equipped with showers. Open fire places and tile or brick mantels. Vacuum cleaning. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, hollow tile. Cost not stated. Oak Knoll, Los Angeles Co., Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Will contain fifteen rooms, five baths, sleeping porch and conservatory. Separate garage. Interior finish hardwood and white en-

amel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Central heating system, hot water circulating system and vacuum cleaning. Open fire places and tile and marble mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

HIGHWAY CONSTRUCTION — Cost not stated. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Sealed bids will be received by the Clerk of the Board of Supervisors of Los Angeles County at his office until 2 o'clock p. m. of May 15th, 1916, for certain improvement work on Mint Canyon road, known as "Section H," in Road District No. 5, in Los Angeles County. For further information address H. J. Lelende, Clerk.

HIGHWAY CONSTRUCTION — $34,018.10. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura Co. The Brashaer-Burns Co., Van Nuys Bldg., L. A., was the lowest bidder at $34,018.10, and will be awarded the contract for constructing about eight miles of the Santa Paula-Fillmore highway. John D. Marsh was the next lowest bidder at $36,512.60.

HIGHWAY PAVING—$14,191.05. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. White & Gaskill of Long Beach were the lowest bidders at $14,191.05 for constructing an oiled macadam pavement 22 feet wide and 5 inches thick on 2.57 miles of Coast Boulevard from Venice through El Segundo. The Crown Construction Co. submitted the next lowest bid at $14,287.50.

HIGHWAY PAVING—$26,982.25. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Fred Hoffman of Long Beach was the lowest bidder at $26,982.25 for constructing concrete pavement 24 feet wide and 5 inches thick on 1.04 miles of Pico Boulevard, between Pruess road and Ballona road No. 2. The next lowest bid was submitted by the Mathewson Construction Co. at $27,973.21.

HOTEL—12 story and base. Class A construction. Cost not stated. Los Angeles, Cal. Architects, Morgan, Walls Morgan, Van Nuys Bldg., L. A. Owner, Frank Simpson. Location, northwest 6th and Grand avenue, covering an area of 60 by 80 feet. Reinforced concrete walls, floors and roof slabs. Will contain 150 rooms and baths besides large lobby and office. Interior finish pine and hardwood. Metal window sash and frames. Elevator service and steam heat, oil burning system and hot water system. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick and terra cotta. Plans being prepared.

Contracts Awarded

RESIDENCE—1 and 2 story and base, hollow tile, $100,000. Pasadena, Los Angeles Co., Cal. Architect, Frederick L. Roehrig, American Bank Bldg., L. A. Owner, E. J. Marshall. Contractor, A. C. Brandt, 394 Worcester avenue, Pasadena. Contract for foundation work only. Balance of work to be awarded shortly.

HIGHWAY PAVING — $19,700. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Contractors, The S. C. Contracting Co., L. A. Contract price, $19,700.

HIGHWAY PAVING—$34,223.60. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Contractor, James L. Frazer, Long Beach. Contract price, $34,223.60.

WAREHOUSE—2 story and base, reinforced concrete, $30,000. Pasadena, Los Angeles Co., Cal. Architect, Cyril Bennett, Boston Bldg., L. A. Owners, B. O. Kendall Co. Contractor, Leonard Bukowski, Pasadena, general construction only. Contract price, $30,000.

WHOLESALE BUILDING — 1 story and base. Class A construction, reinforced concrete, $80,000. Los Angeles, Cal. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, E. P. Bosbyshell. Contractor, Fred L. Somers, Baker-Detwiler Bldg., L. A. Contract price, $80,000.

PORTLAND AND OREGON

COURT HOUSE—3 story and base, reinforced concrete, $25,000. Coquille, Coos Co., Ore. Architect, W. S. Chandler, Marshfield, Ore. Owners, Coos County. Will cover an area of 40 by 60 feet and contain offices for the various county officials. Interior finish pine and hardwood. Tile floors. Steam heat, vacuum cleaning and elevator. Metal window sash and frames. Special fireproof vaults. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

WATER PIPE AND WATERWORKS MATERIALS—Cost as follows. Bandon, Ore. Engineer, City Engineer, Bandon. Owners, City of Bandon. Bids for pipe and waterworks materials were opened by the City Council at its last meeting and contracts awarded as follows: United States Cast Iron Pipe and Foundry Co., Portland, Ore. Contract price, approximately $35,462.36, and calls for 48 lineal feet of 6-inch and 1816 lineal feet of 10-inch pipe. The balance of the pipe will be furnished by the Pacific Tank and Pipe Co. of San Francisco. Gate valves and hydrants will be furnished by the Renssaler Valve Co., Seattle, $5,436.50 f. o. b. San Francisco.

WATERWORKS SUPPLIES — Cost not stated. Milwaukee, Ore. Engineer, City Engineer, Milwaukee. Owners, City of Milwaukee. Contractor, M. L. Kline, 80 front street, Portland. Contract price not stated.

SEATTLE AND WASHINGTON

CITY WATERWORKS—$250,000 to $300,000. Aberdeen, Wash. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners, City of Aberdeen. The City Council has ordered a call for bids for the construction of the proposed Wishkah waterworks system at the request of City Engineer L. D. Kelsey, and this will be made at once.

SCHOOL—2 story and base, concrete and brick, $30,000. Port Angeles, Wash. Architect, H. H. Ginnold, Melhorn Bldg., Seattle. Owners, Port Angeles School District. Will cover an area of 53 by 137 feet and contain eight class rooms, auditorium and departments for domestic science and manual training. Interior finish pine. Maple floors in the class rooms. Steam heat and mo ern school plumbing. Exterior face with pressed brick. Plans are bein prepared.

HOTEL AND STORES—3 story an base, brick, $30,000. Bellingham, Wash Architect, F. Stanley Piper, Bellingham Owner, Charles Fischer. Will cover a area of 85 by 100 feet. First floor ar ranged for stores. Upper floors wil contain a number of single rooms an baths. Interior finish pine. Steam hea and hot water system. Patent stor fronts. Exterior faced with presse brick. Plans complete and figures t he taken at once.

Contracts Awarded.

APARTMENT HOUSE—5 story an base, mill construction, $70,000. Seat tle, Wash. Architect, George W. Law ton, Alaska Bldg., Seattle. Owners Goodwin Realty Co. Contractors, Vic tor . Murdock, 626 14th avenue, Seattle Contract price, $70,000.

GREAT DAM SYSTEM WILL PREVENT FLOODS.

DAYTON, O.—Construction work is under way on the great engineering project for flood prevention in the Miami valley, to prevent a repetition of the disastrous floods of 1913, which caused millions of dollars' damage and claimed several hundred lives. The cost of materials will be about $24,000,000.

Towns between Piqua and Hamilton, a distance of 100 miles, will be protected when the project is completed.

The plan of the flood prevention system is to let the rivers carry off water at their maximum capacity without doing damage.

It is expected that the work will be completed in three years.

LUMBER MARKET IMPROVING.

TACOMA—With prices ranging about 20 per cent above those of a year ago a steady market and a good demand in the United States despite the fact that the foreign business is at a standstill, Tacoma lumbermen express satisfaction with present conditions and foresee further improvement. Practically all Tacoma mills are running, with the exception of the Tacoma Mill Co.'s plant, and some are running night shifts. One new mill is projected for the waterfront by the St. Paul and Tacoma Lumber Co., if present conditions continue. The industry is showing strength, such as has not been equaled in seven years.

ELECTION BY PHILIPPINE CHAMBER OF COMMERCE.

The election of officers for 1916 has been held by the Chamber of Commerce of the Philippine Islands at the headquarters in Manila. The Bureau of Foreign and Domestic Commerce has received from the secretary of the organization the list of members of the board for the coming year. The principal officers are: President, Sr. D. Mauro Prieto; vice president, Sr. D. Jose F. Fernandez; secretary and treasurer, Sr. D. Antonio G. Escamilla (re-elected); counsel, Sr. D. Jose Varela Calderon (re-elected). Of the nine directors, four are re-elected and five are new members of the board.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

o.	Owner	Contractor	Amt.
19	Cuneo	Cuneo	4000
120	Same	Same	4000
21	Allen	Allen	4750
22	Cuneo	De Favero	1000
123	Krile	Spiletak	1000
124	Auger	Auger	1000
125	Brockhoff	Brockhoff	400
126	Homstead Rlty	Grahn	1500
127	Lind	Lind	2800
128	Same	Same	2800
129	Taleri	Snook	2231
130	Schnitman	Westerlund	3200
131	Goldberg	Malloch	500
132	Ferrero	Ferrero	3000
133	De Paoli	De Paoli	2900
134	Schwab	Klahn	450
135	Olcese	Liebert	4500
136	Henry	Holmes	3800
137	Seaberg	Olson	2000
138	Klahn	Jones	5600
139	Hill	Hamerton	6100
140	Torre	Reite	8500
141	Serensky	Miller	2000
142	Harvey	West'n Hdwd	3000
143	Stand Oil	Forbes	24000
144	Curtis	Rednall	4950
145	Bergin	McSheehy	4800
146	Will	Lewis	5000
147	Sullivan	Ellingson	4772
148	Ruddock	White	3050
149	Moore	Johnson	16018
150	Pacific G & E.	Frasier	24000
151	Mowat	Mowat	2000
152	Cronan	Fahy	450
153	Scanlon	Scanlan	400
154	McGeorge	Brown	450
155	Milne	Milne	1000
156	Downey	Wilson	550
157	Peterson	Pearson	1000
158	Schwarz	Hoin	400
159	Pockman	Pockman	5000
160	Holmgren	Holmgren	2200
161	Scholten	Scholten	13000
162	Lerer	Franz	12449
163	Schmitt	Ruegg	3250
164	Capurro	Brisa	8250
165	Birdie	Murray	2760
166	Finance & Rlty Co.	Owner	5050
167	Figone	Filippis	13500
168	Rutherford	Ruegg	1100
169	Stokes	Atlas Htg	1350
170	Baumgartner	Maundrell	3775
171	Giesin	McMullin	4412
172	Devitt	Hofmeister	5000
173	Locastro	New Era	2263
174	Suydam	Carson	2900
175	Erickson	Erickson	2900
176	Erickson	Erickson	3000
177	Clancy	Clancy	400
178	Turner	Turner	500
179	McCreery	Nielsen	1500
180	Garfalo	Garfalo	500
181	Douglas	Douglas	1000
182	Edwards	Edwards	400
183	Behler	Behler	800
184	Tivoli	Brumfield	575
185	Sicocan	Persson	1400
186	Buslin	Buslin	4900
187	Hurrell	Hurrell	2500
188	Dahl	Dahl	69980
189	Gerard Invst	Owner	3500
190	Cristensen	Cristensen	4500
191	Anderson	Anderson	1550
192	Burns	Klein	
193	Clinton	Clinton	3000
194	Rosenfeld	Braunton	2000
195	Caine	Caine	1080
196	Bankers' Invst	Kurtz	2186
197	Jeffress	Holt	6025
198	Gribble	Schwarz	

FRAME FLATS
(1119) S SYCAMORE 55 E San Carlos. Two-story and basement frame flats.
Owner.....Cuneo Bros., 152 Tiffany Ave., San Francisco.
Architect ...None.
Contractor..Cuneo Bros., 152 Tiffany Ave., San Francisco.
COST, $4000

FRAME FLATS
(1120) S SYCAMORE 30 E San Carlos. Two-story and basement frame flats.
Owner.....Cuneo Bros., 152 Tiffany Ave., San Francisco.
Architect ...None.
Contractor..Cuneo Bros., 152 Tiffany Ave., San Francisco.
COST, $4000

FRAME RESIDENCE
(1121) W TWENTY-EIGHTH AVE 156 N California. Two-story and basement frame residence.
Owner.....Allen & Co., 125-127 Sutter, San Francisco.
Architecvt ...Architectural Dept. Allen & Co., 125 Sutter, S. F.
Day's work. COST, $4750

ALTERATIONS
(1122) SW VALLEJO AND TRACY Alley. Alter and change rooming house.
Owner.....G. Cuneo, Columbus Savings Bank, San Francisco.
Architect ...Louis Mastropasqua, 580 Washington, S. F.
Contractor..L. De Favero, 1839 Mason, San Francisco.
COST, $1000

ALTERATIONS
(1123) NO. 86 SECOND. Alter restaurant.
Owner.....Barney Krile.
Architect ...None.
Contractor..Kusich & Spiletak, 211 Birch, San Francisco.
COST, $1000

ADDITION
(1124) E TWENTY-SIXTH AVE 100 N Taraval. Add to dwelling.
Owner.....Clair Auger, 2378 26th Ave., San Francisco.
Architect ...None.
Day's work. COST, $1000

CEMENT FLOOR
(1125) NO. 2933 TWENTY-FOURTH. Cement floor and yard.
Owner.....C. H. Brockhoff, SE Bryant and 24th, S. F.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(1126) S HEARST 150 W Genessee. Two-story and basement frame dwlg.
Owner.....Homestead Realty Co., 202 Mutual Bank Bldg., S. F.
Architect ...None.
Contractor..Wm. H. Grahn, 2840 Bryant, San Francisco.
COST, $1500

FRAME DWELLING
(1127) E NINTH AVE 275 N Balboa. Two-story and basement frame dwlg.
Owner.....Oscar Lind, 4385 25th, S. F.
Architect ...None.
Day's work. COST, $2800

FRAME DWELLING
(1128) E NINTH AVE 200 N Balboa. Two-story and basement frame dwlg.
Owner.....Oscar Lind, 4385 25th, S. F.
Architect ...None.
Day's work. COST, $2800

PLUMBING, ETC.
(1129) NW PACIFIC & STOCKTON 137-6 W 80 S 137-6 E 80. Plumbing and hot water heater work necessary in the installing of basins for two-story and basement brick bldg.
Owner.....G. Taleri, 922 Vallejo, S. F.
Architect ...William Mooser, Nevada Bank Bldg., S. F.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed Apr. 15, '16. Dated Apr. 12, '16.
Completed 75%
Usual 35 days..... 25%
TOTAL COST, $2231
Bond, none. Limit, 30 days after notification. Forfeit, $10. Plans and specifications filed.

FRAME STORE
(1130) E MISSION, bet. Twenty-third and Twenty-fourth. All work for one-story frame store building.
Owner.....Abraham Schnitman, 3090 16th, San Francisco.
Architect ...O. E. Evans & Co
Contractor..John Westerlund, 3159 Folsom, San Francisco.
Filed Apr. 15, '16. Dated Apr. 8, '16.
Frame up $725
Plaster on 825
Completed 825
Usual 35 days..... 825
TOTAL COST, $3200
Bond, $1600. Sureties, P. M. Levey and Henry Rioboni. Limit, 30 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1131) S HAIGHT 32 W Masonic Ave. Alter interior of store.
Owner.....Goldberg Bowen Co., Prem.
Architect ...Heiman & Schwartz, Nevada Bank Bldg., S. F
Contractor..J. S. Malloch, 110 Jessie, San Francisco.
COST, $500

FRAME FLATS
(1132) N TELEGRAPH PLACE 227 E Good Children. Two-story and basement frame (2) flats.
Owner.....C. Ferrero, 2123 Powell, San Francisco.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Day's work. COST, $3000

FRAME DWELLING
(1133) SW COLBY & WOOLSEY. Two-story and basement frame dwelling.
Owner.....A. De Paoli, 2609 San Bruno Ave., San Francisco.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Day's work. COST, $2000

REPAIRS
(1134) NO. 312 SILLIMAN. Repair dwelling.
Owner.....Mrs. D. Schwab, 1186 Army San Francisco.
Architect ...A. Klahn, 27 Chenery, S. F

Contractor..A. Klahn & Son, 27 Chenery, San Francisco.
COST, $450

FRAME DWELLING
(1135) N VALLEJO 124 E Van Ness Ave. Two-story and basement frame dwelling.
Owner.....Emilio Olcese, 529 Front, San Francisco.
Architect ...None.
Contractor..Liebert & Martinelli, 195 Lexington Ave., S. F.
COST, $4500

FRAME DWELLING
(1136) SE EIGHTEENTH AVE AND Quintara. Two-story and basement frame dwelling.
Owner.....W. P. Henry, 307 Foxcroft Bldg., San Francisco.
Architect ...None.
Contractor..Arthur S. Holmes, 402 Hearst Bldg., S. F.
COST, $3800

FRAME DWELLING
(1137) W CURTIS 300 S Rolph. One and one-half-story and basement frame dwelling.
Owner.....Wm. Seaberg, 424 22d, S. F.
Architect ...None.
Contractor..H. C. Olson, 338 Holloway Ave., San Francisco.
COST, $2000

ALTERATIONS
(1138) NO. 3042 SACRAMENTO. Remodel frame building into (6) flats.
Owner.....C. L. Kahn, 3064 Sacramento, San Francisco.
Architect ...None.
Contractor..W. H. Jones, 3042 Sacramento, San Francisco.
COST, $5000

FRAME FLATS
(1139) E THIRTEENTH AVE 150 N Clement. Two-story and basement frame (2) flats.
Owner.....E. Hill, 1810 Webster, S. F.
Architect ...None.
Contractor..Wm. C. Hamerton & Son, 1301 Waller, S. F.
COST, $6100

FRAME FLATS
(1140) SE UNION & TAYLOR. Three-story and basement (3) flats.
Owner.....G. Torre, $63½ Union, S. F.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..J. B. Reite and J. Steur, 185 Jessie, San Francisco.
COST, $8500

FRAME SHOP
(1141) E HOWARD 225 S 12th. Two-story and basement frame shop.
Owner.....A. Serensky, 169 Kissling, San Francisco.
Architect ...None.
Contractor..Wm. Miller, 49 Park, S. F.
COST, $2000

ALTERATIONS
(1142) NO. 30 KEARNY. Lower floor 10 inches and make alterations for lunch room.
Owner.....Harvey's Inc., Premises.
Architect ...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., San Francisco.
COST, $3000

CONCRETE GARAGES
(1143) S SIXTEENTH, bet. Arkansas and Wisconsin. Two one-story concrete garages.
Owner.....Standard Oil Co., Standard Oil Bldg., S. F.
Architect ...Plans by owner.
Contractor..Richard J. H. Forbes, 1050-52 Monadnock Bldg., S. F.
COST, $24,000

FRAME RESIDENCE
(1144) N FILBERT 200 W Baker. Two story and basement frame residence.
Owner.....H. Taylor Curtis, 534 Sutter, San Francisco.
Architect ...None.
Contractor..W. W. Rednall, 2500 Filbert, San Francisco.
COST, $4950

ALTERATIONS
(1145) NW HAIGHT AND OCTAVIA. Alter porches and front; concrete all yards and basements of flats.
Owner.....Bergin Estate, Grant Ave and Market, S. F.
Architect ...None.
Contractor. McSheehy Bros., 73 Langton, San Francisco.
COST, $4800

FRAME FLATS
(1146) W SEVENTEENTH 542-8 E Douglass. Two-story and basement frame (4) flats.
Owner.....Otto Will, 71 Douglass, San Francisco.
Architect ...None.
Contractor..Robert L. Lewis, 41-A Douglass, S. F.
COST, $5000

FRAME DWELLING
(1147) LOT 4 BLK 11, St. Francis Wood All work for two-story frame dwelling.
Owner.....Irene Sullivan.
Architect ...Albert Farr, 68 Post, S. F.
Contractor..E. Ellingson, 3854 Army, San Francisco.
Filed Apr. 17, '16. Dated Apr. 7, '16.
Frame up .....$ 600
Roof completed and plumbing roughed in 600
Plaster finished inside & exterior 700
Glazing done, castings set, stair work 75% done and 75% of mill work on job and plumbing goods delivered 679
Completed and accepted..... 1000
Usual 35 days..... 1193
TOTAL COST, $4772
Bond, $2386. Sureties, F. E. Kara and H. J. Hansen. Limit, 80 days. Forfeit, none. Plans and specifications filed.

BRICK WORK, ETC.
(1148) S GROVE 158-9½ W Polk. Brick work using old brick in side walls and backing up of pressed brick front on Grove street, common brick on Ivy St., flue lining of fire walls (tops only) and window sills for Class "C" loft building.
Owner.....Catherine W. Ruddock by W. E. Greene, 1357 Oak, San Francisco.
Architect ...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..M. J. White and E. E. Gloor, Monadnock Bldg., San Francisco.
Filed Apr. 17, '16. Dated Apr. 15, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $3050
Bond, limit, forfeit, plans and specifications, none.

FRAME RESIDENCE
(1149) PACIFIC AVE AND LYON. All work for two-story attic and basement frame residence.
Owner..... Pierre C. Moore.
Architect ...Bliss & Faville, Balboa Bldg., San Francisco.
Contractor..J. Harold Johnson, 507 15th Ave., San Francisco.
Filed Apr. 17, '16. Dated Apr. 1, '16.
Frame up $4004.50
Plastering finished 4004.50
Completed and accepted..... 4004.50
36 days after..... 4004.50
TOTAL COST, $16,018.00
Bond, $8900. Sureties, H. A. Normar and Dante Seeghiere. Limit, Sept. 1 1916. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1150) NE SPEAR AND FOLSOM. Alter and add to present brick building for warehouse.
Owner.....Pacific Gas & Electric Co. 445 Sutter, San Francisco.
Architect ...Wm. Knowles, Hearst Bldg., San Francisco.
Contractor..Frasier & Frasier, 180 Jessie, San Francisco.
COST, $24,000

FRAME DWELLING
(1151) N ARLINGTON 30 NE Natick Two-story and basement frame dwlg
Owner.....John Mowat, 52 Webster San Francisco.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
(1152) NO. 67 FORD. Alter rooms in basement.
Owner.....T. Cronan, Premises.
Architect ...None.
Contractor..R. Fahy, 518 Noe, S. F.
COST, $450

ALTERATIONS
(1153) NO. 1867 UNION. Enlarge kitchen and dining room and erect fence and stair platform.
Owner.....G. Scanlan, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1154) NO. 4435 SEVENTEENTH. Raise dwelling, build new steps and add baths.
Owner.....Jas. M. McGeorge, Premises
Architect ...None.
Contractor..Ralph Brown, 176 Caselli Ave., San Francisco.
COST, $450

FRAME DWELLING
(1155) W ANDERSON 225 S Crescent. One-story and basement frame dwlg.
Owner.....John Milne, 449 Anderson, San Francisco.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(1156) NO. 744 CLEMENT. Replace store front.
Owner.....E. Downey, Premises.
Architect ...J. Chas. Flugger, 766 2nd Ave., San Francisco.
Contractor..R. T. Wilson, 744 Clement, San Francisco.
COST, $550

UNDERPIN HOTEL
(1157) E CHATMAN 68 N Bush. Underpin present hotel.

Owner.....August Peterson, 222 15th, San Francisco.
Architect ...None.
Contractor..E. K. Pearson, 2372 Bryant San Francisco.
COST, $1000

NEW STORE FRONTS
(1158) NO. 998 OAK. New store fronts, etc.
Owner.....H. Schwarz Co., Napa, Cal.
Architect ...None.
Contractor..Theo. S. Hoin, 1449 Hyde, San Francisco.
COST, $400

FRAME RESIDENCE
(1159) SE CLEMENT AND 40TH AVE. Two-story and basement frame residence.
Owner.....Pockman & Co., 37th Ave and Geary, S. F.
Architect ...None.
Day's work. COST, $5000

FRAME DWELLING
(1160) NE BRUNSWICK & NAPLES. Two-story and basement frame dwlg.
Owner.....Victor Holmgren, 1239 Athens, San Francisco.
Architect ...None.
Day's work. COST, $2200

FRAME TENEMENTS
(1161) S MISSION 200 W Fourteenth. Three-story and basement frame (12) tenements.
Owner.....Henry Scholten, 1522 Santa Clara Ave., Alameda.
Architect ...None.
Day's work. COST, $13,000

BRICK LOFT BUILDING
(1162) NW ELEVENTH AND HARRISON 73-3 front, 88-11 rear, and 100 depth. Concrete, brick, carpenter, mill, glass, roofing, painting, wiring, plumbing, steel work, sheet metal, elevator, etc., for three-story brick loft building.
Owner.....Jos. Lerer, 381 11th, S. F.
Architect ...Heiman & Schwartz Nevada Bank Bldg., S. F.
Contractor..Val Franz & Son, 180 Jessie, San Francisco.
Filed Apr. 18, '16. Dated Mar. 30, '16.
When second floor on.....$3100
Roof boards on..... 3100
On completion 3100
Usual 35 days..... 3149
TOTAL COST, 12,449
Bond, $6224.50. Sureties, Fred P. Fisher and Henry Eggerling. Limit, 40 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1163) W FOURTEENTH AVE 200 S Lincoln Way (H) S 25xW 127-6. All work for two-story and basement frame residence and garage.
Owner.....Frank Schmitt.
Architect ...Fabre & Bearwald, Merchants Nat'l. Bank Bldg., San Francisco.
Contractor..Ruegg Bros., Pacific Bldg., San Francisco.
Filed Apr. 18, '16. Dated Apr. 12, '16.
Frame up and roof on.....$810
Brown coated 810
Completed and accepted..... 815
Usual 35 days..... 815
TOTAL COST, $3250
Bond, $1625. Sureties, Mrs. A. Curtaz and Mrs. M. Ruegg. Limit, 70 days. Forfeit, $5. Plans and specifications filed.

FRAME FLATS
(1164) W MISSION 240-9 N Onondago Ave N 160-6 W 274-7½ S 160 E 261-6. All work except finish hardware, lighting fixtures and shades for three-story frame flats.
Owner.....G. Capurro, 22 Theresa, San Francisco.
Architect ...Paul J. Capurro, 1844 Powell, San Francisco.
Contractor..A. Brisa, 525 Vallejo, S. F. and J. Canepa, 721 Chestnut, San Francisco.
Filed Apr. 18, '16. Dated Apr. 3, '16.
Roof on $2062.50
Brown coated 2062.50
Completed and accepted..... 2062.50
Usual 35 days..... 2062.50
TOTAL COST, $8250.00
Bond, $4125. Sureties, Lui Arata and Carlo Bernero. Limit, 65 days. Forfeit, $5. Plans and specifications filed.

FRAME RESIDENCE
(1165) S ANZA 50 E 27th Ave E 25xS 100. All work for two-story frame residence.
Owner.....Miles and Annie Birdie, 162 Dolores, San Francisco.
Architect ...T. Roy Murray.
Contractor..T. Roy Murray, 523 24th Ave., San Francisco.
Filed Apr. 18, '16. Dated Apr. 17, '16.
Frame up $690
Brown coated 690
Completed 690
Usual 35 days..... 690
TOTAL COST, $2760
Bond, $1380. Sureties, D. D. Shean and Peter Madere. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1166) S BALBOA 125 W 19th Ave W 25xS 100. All work for two-story and basement and garage frame residence (8-rooms and bath).
Owner.....Finance & Realty Development Co., 340 Phelan Bldg., San Francisco.
Architect ...None.
Contractor..Day's work.
Filed Apr. 18, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications filed.
NOTE:—No agreement filed, only the plans and specifications.

FRAME BUILDING
(1167) W MASON 33-6 N Kent N 20-6 xW 60. All work for three-story and basement frame building.
Owner.....Giovanni Figone.
Architect ...L. Traverso, 854 Union, San Francisco.
Contractor..Vincenzo Filippis, 21 Columbus Ave., S. F.
Filed Apr. 18, '16. Dated Apr. 17, '16.
Foof on $1262.50
Brown coated 1262.50
Completed and accepted..... 1262.50
Usual 35 days..... 1262.50
TOTAL COST, $5050.00
Bond, $2525. Sureties, M. Capurro and L. Figone. Limit, 70 days from April 24. Forfeit, none. Plans and specifications filed.

FRAME BUILDING
(1168) SW LINCOLN WAY AND THIRD Ave S 45xW 95. All work except gas radiators for two-story and basement frame (8) apartments.
Owner..... J. A. Rutherford, 117 Grant Ave., San Francisco.
Architect ...Edward E. Young, 251 Kearny, San Francisco.
Contractor..Ruegg Bros., Pacific Bldg., San Francisco.
Filed Apr. 19, '16. Dated Apr. 17, '16.
Frame up $3375
Brown coat plaster on..... 3375
Completed 3375
Usual 35 days..... 3375
TOTAL COST, $13,500
Bond, none Limit, 90 days. Forfeit, none. Plans and specifications filed.

STEAM HEATING PLANT
(1169) E SEVENTH AVE 120 S Lincoln Way S 25xE 120. Steam heating plant for three-story and basement frame flats.
Owner.....Frederick R. & Marguerite L. Stokes, 452 Lyon or on Premises.
Architect ...T. Paterson Ross, 310 California, San Francisco.
Contractor..Atlas Heating & Ventilating Co., 4th and Freelon, San Francisco.
Filed Apr. 19, '16. Dated Mar. 28, '16.
Completed and accepted.....$750
Usual 35 days..... 350
TOTAL COST, $1100
Bond, none. Limit, 80 days. Forfeit, $5. Plans and specifications, none.

PAINTING
(1170) N VALLEJO 55 W Baker W 55 xN 127-6. Painting two-story attic and basement frame dwelling.
Owner.....Mrs. J. J. Baumgartner, Vallejo nr Baker, S. F.
Architect ...Louis M. Upton, 111 Ellis, San Francisco.
Contractor..H. Maundrell, 320 Hayes, San Francisco.
Filed Apr. 19, '16. Dated Apr. 14, '16.
All work enameled, varnished, etc., and painted 2 coats.....$506
Completed and accepted..... 506
Usual 35 days..... 338
TOTAL COST, $1350
Bond, $675. Surety, The Aetna Accident & Liability Co. Limit, 40 days from recording. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1171) LOT 36 BLK 21 Crocker Amazon Tract. All work for frame residence.
Owner..... Anthony and Mary Giesin, 4114 California, S. F.
Architect ...None.
Contractor..C. E. McMullin, 1290 12th Ave., San Francisco.
Filed Apr. 20, '16. Dated Apr. 4, '16.
Frame up $943.75
White coated 943.75
Accepted 943.75
Usual 35 days..... 943.75
TOTAL COST, $3775.00
Bond, $1890. Surety, J. H. McCallum. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ADDITIONS AND ALTERATIONS
(1172) NO. 923 VALENCIA. All work add to and alter frame building into store and flats.
Owner.....Frank and Mathilde Devitt, 528 Hayes, San Francisco.
Architect ...None.
Contractor..Hofmeister & Berdahl, 629 Cole, San Francisco.
Filed Apr. 20, '16. Dated Apr. 17, '16.
Grading lot and house raised and set .....$ 600
Brown coated 800
Standing finish on..... 812
Accepted 1100
Usual 35 days..... 1100
TOTAL COST, $4412

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME STORES AND FLATS
(1173) NE ARMY AND BRYANT N 27-3½ E 75 S 26-10½ W 75 m or l. All work for two-story frame stores and flats.
Owner.....Gaetano and Candita Locastro.
Architect...M. J. Welsh, 915 Treat Ave., San Francisco.
Contractor..New Era Bldg. Co., 3289 Mission, San Francisco.
Filed Apr. 20, '16. Dated Apr. 14, '16.
Frame up $1250
Brown coated 1250
Completed 1250
Usual 35 days..... 1250
TOTAL COST, $5000
Bond, $2500. Surety, Massachusetts Bonding & Insurance Co. Limit, 100 days after concrete work is completed. Forfeit, $2. Plans and specifications filed.

ALTERATIONS
(1174) S WASHINGTON 245 E Walnut E 30xS 127-8¾. All work for alterations to residence and garage.
Owner.....James H. and Lillian E. Suydam, 110 Market, S. F.
Architect...None.
Contractor..Cleeve Carson & Sons, 219 32nd Ave., San Francisco.
Filed Apr. 20, '16. Dated Apr. 13, '16.
On completion of excavation for garage $400
Frame up, windows set, sun porch in place, partitions in place, lathed, ready for plaster.. 400
Completion of carpenter work on building & garage, rough plumbing in, cement work completed.. 400
Completed and accepted..... 400
Usual 35 days after completion and acceptance 163
$100 every 30 days thereafter until full payments of contract price.
TOTAL COST, $2263
Bond, $1200. Surety, Hartford Accident & Indemnity Co. Limit, 60 days from April 13. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1175- S CASELLI 628 W Douglass. Two-story and basement frame residence.
Owner.....Ernest Erickson, 972 Plymouth Ave., S. F.
Architect...Koenig & Christiansen, Humboldt Bank Bldg., S. F.
Day's work. COST, $2900

FRAME RESIDENCE
(1176) S CASELLI 603 W Douglass. Two-story and basement frame residence.
Owner.....Ernest Erickson, 972 Plymouth Ave., S. F.
Architect...Koenig & Christiansen, Humboldt Bank Bldg., S. F.
Day's work. COST, $2900

FRAME RESIDENCE
(1177) E NINETEENTH AVE 150 S Balboa. Two-story and basement frame residence.
Owner.....D. J. Clancy, 2884 Folsom, San Francisco.
Architect..Rhodes & Marish, 3372 16th, San Francisco.
Day's work. COST, $3000

FRAME DWELLING
(1178) N QUESADA 75 E Hawes. One story and basement frame dwelling.
Owner.....T. J. Turner, 1191 Revere Ave., San Francisco.
Architect...None.
Day's work. COST, $400

ALTERATIONS
(1179) NOS. 333-335 CLAY. Take out and install wood sash and frames in warehouse.
Owner.....McCreery Estate Co., 221 Sansome, San Francisco.
Architect...None.
Contractor..N. F. Nielsen, 110 Jessie, San Francisco.
COST, $500

FRAME DWELLING
(1180) NW TARA 178 NE Mt. Vernon. One-story and basement frame dwlg.
Owner.....John B. Garfalo, 246 Precita Ave., San Francisco.
Architect...None.
Day's work. COST, $1500

ALTERATIONS
(1181) NO. 902 MARKET. Alter store.
Owner.....Douglas Realty Co.
Architect...Earl B. Bertz, 68 Post, San Francisco.
Day's work. COST, $500

ALTERATIONS
(1182) E TWENTIETH AVE 175 S Anza. Alter and add for flats.
Owner.....G. Edwards, 466 20th Ave., San Francisco.
Day's work. COST, $1000

ALTERATIONS
(1183) S MANGELS 200 E Hamburg. Raise and alter cottage.
Owner.....Bertha Behler, 663 Mangels San Francisco.
Architect...None.
Day's work. COST, $400

ELECTRIC SIGNS
(1184) NO. 70 EDDY. Electric sign.
Owner.....Tivoli Theatre, Premises.
Architect...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $800

ALTERATIONS
(1185) NO. 1975-79 GEARY. Alter dwelling.
Owner.....Geo. Sicocan, 1979 Geary, San Francisco.
Architect...None.
Contractor..Jack Persson, 702 Divisadero, San Francisco.
COST, $375

FRAME DWELLING
(1186) E TWENTY-THIRD AVE 250 S Clement. One-story and basement frame dwelling.
Owner.....J. Buslin, 5025-A Geary, San Francisco.
Architect...None.
Day's work. COST, $1400

FRAME FLATS
(1187) E TENTH AVE 300 S Balboa. Two-story and basement frame (2) flats.
Owner.....A. C. Hurrell, 648 10th Ave San Francisco.
Architect...None.
Day's work. COST, $4900

FRAME DWELLING
(1188) S NAPLES 125 W Seville. Two-story and basement frame dwelling.
Owner.....Mrs. Serena Dahl, 828 Fulton, San Francisco.
Architect...None.
Contractor..Alfred C. Dahl, 828 Fulton, San Francisco.
COST, $2500

BRICK APARTMENTS
(1189) NE SUTTER AND JONES. Four-story and basement brick apartments and stores.
Owner.....Gerard Investment Co., 110 Sutter, San Francisco.
Architect...Rousseau & Rousseau, 110 Sutter, San Francisco.
Day's work. COST, $69,980
NOTE:—Steel being set.

FRAME DWELLING
(1190) W NINETEENTH AVE 166-8 N Ulloa. Two-story and basement frame dwelling.
Owner.....Carl Cristensen, 915 Eddy, San Francisco.
Architect...W. E. Hansen, 1882 Church San Francisco.
Day's work. COST, $3500

FRAME FLATS
(1191) W NINTH AVE 350 S Cabrillo. Two-story and basement frame (2) flats.
Owner.....Anderson & Johnson, 256 Church, San Francisco.
Architect...H. E. Harris, 941 Monadnock Bldg., S. F.
Day's work. COST, $4500

FRAME DWELLING
(1192) E TENTH AVE 225 S Noriega. Two-story and basement frame dwlg.
Owner.....T. A. Burns, 243 Drumm, San Francisco.
Architect...None.
Contractor..F. A. Klein, 1423 24th Ave., San Francisco.
COST, $1550

WAREHOUSE
(1193) E THIRD, bet. Townsend and Brannan. Concrete and brick work for 5-story and basement concrete warehouse.
Owner.....Clinton Constr. Co., 140 Townsend, San Francisco.
Architect...Geo. Wagner, 518 Hearst Bldg., San Francisco.
Contractor..Clinton Constr. Co., 140 Townsend, San Francisco.
COST, $——
NOTE:—The entire cost of this building will amount to about $126,000.

ADDITIONS
(1194) NW AUSTIN AND POLK. Add one-story frame for dining room, restaurant and living quarters for one family.
Owner.....John Rosenfeld's Sons, 1024 Merchants' Exchange Bldg. San Francisco.
Architect...None.
Contractor..Harold Braunton, 185 Stevenson, San Francisco.
COST, $3000

FRAME RESIDENCE
(1195) E NINETEENTH AVE 75 N Taraval. Two-story and basement frame residence.
Owner.....Michael Caine, 1281 21st Ave., San Francisco.
Architect...None.
Day's work. COST, $2000

TANK WORK, ETC.
(1196) SE GRANT AVE AND GEARY. Steel and tank work and plumbing in Magnin Building.
Owner.....Bankers' Investment Co.

Architect ...William Mooser, Nevada Bank Bldg., San Francisco
Contractor ..Otto Kurtz, 445 Stevenson, San Francisco.
Filed Apr. 21, '16. Dated Apr. 13, '16.
Full payment when completed and accepted .....
TOTAL COST, $1080
Bond, none. Limit, without delay. Forfeit, none. Specifications only filed

FRAME BUNGALOW
(1197) N CASELLI AVE 150 W Douglass W 33-4xN 121. All work for one story and basement frame bungalow.
Owner.....Clarence R. Jeffress, 22 Dorland, San Francisco.
Architect ...C. O. Clausen, Hearst Bldg., San Francisco.
Contractor..O. K. Holt 3877 26th, S. F.
Filed Apr. 21, '16. Dated Apr. 20, '16.
Frame up $546.50
Brown coated 546.50
Completed and accepted..... 546.50
Usual 35 days..... 546.50
TOTAL COST, $2186.00
Bond, none. Limit, 60 days. Forfeit, $5. Plans and supecifications filed.

FRAME FLATS
(1198) E TWELFTH AVE 150 N Fulton N 25xE 120. All work for two-story and basement frame flats.
Owner.....Bertha A. Gribble, 674 Page, San Francisco.
Designer ...Chas. Schwarz.
Contractor..Chas. Schwarz, 335 Maple, San Francisco.
Filed Apr. 21, '16. Dated Apr. 19, '16.
Frame up & roof sheathing on..$1000
Enclosed and brown coated.... 1000
Ready for painting, inside and outside 1500
Completed and accepted..... 1018
Usual 35 days..... 1507
TOTAL COST, $6025
Bond, $3020. Sureties, Richard French and Paul Gottlieb. Limit, 90 days from recording. Forfeit, $5. Plans and specifications filed.

LEASES

SAN FRANCISCO COUNTY.

Apr. 15, 1916—E MISSION 197 N 24th N 55xE 122-6. Melissa A Potter to Abraham Schnitman. 10 years. $13,200 with option to renew.

Apr. 17, 1916—S TWENTY-FOURTH, bet Noe and Castro; No. 4027 24th. Helen F Schwartau to Adolph Schwindt. 5 years. $40 per month.

Apr. 18, 1916—SE MISSION 170 m or 1 NE 12th 20 m or 1 by 100 m or 1; No. 1575 Mission. Mary J Cooney to Francis Verling and John Burke. 5 years. $2190.

Apr. 19, 1916—NO. 27 THIRD. Ludwig Arnstein, Gustav Wormser to John Bruckman, extrs Est Herman Levy, dec'd and as trustees to Peter Caranica. 10 years. $55,200.

Apr. 19, 1916—NO. 1600 PACIFIC AVE, 18 on Pacific Ave and 50 on Polk; NW Cor Polk and Pacific Ave N 100xW 50. Caroline A Wilson to Anton Scar and A N Batchia. 4 years. $3600.

Apr. 19, 1916—NOS. 6 AND 10 SANCHEZ Nicola Ratto to Giovanni B Ratto, Ernest Brignardelli. April 14, 1921. $2700.

Apr. 19, 1916—NO. 845 SUTTER, S line 137-6 W Jones. Robert Jones to C F Buttrick. 5 years. $70,800.

Apr. 19, 1916—NOS. 256-258 MARKET and No. 26 Davis. Geo Long to Hallawell Seed Co. 5 years. $24,000.

Apr. 21, 1916—NO. 1974 PAGE N line 100 E Stanyan N 137-6xE 100. Alice A Doane to Thomas A Walthew. 2 years. $40 per month.

Apr. 21, 1916—NOS. 2511 AND 2515 Washington SW Cor. Fillmore. Hattie Hausmann to Arthur L Isswitch. 60 months. $113.32 per month with option to renew.

INCORPORATIONS.

United Chemists. Capital Stock, $50,000; subscribed, $30; shares, $10 each. Directors—T. E. Shumate, J. A. Raeish, A. N. Tucker, 1 share each. Place of business, San Francisco.

San Francisco Jewelry Co. Capital Stock, $50,000; subscribed, $300; shares, $100 each. Directors—J. M. Cowsky, B. Mayer, M. Meyer, 1 share each. Place of business, San Francisco.

Kalfus Genesee Mining and Leasing Co. Capital Stock, $30,000; subscribed, $5; shares, $1 each. Directors—E. J. Davis, A. D. Thomson, L. J. Rabinowitz, J. W. Pearson and J. F. Corbett, 1 share each. Place of business, San Francisco.

ARCHITECT'S CERTIFICATE.

Edwin J. Symmes has filed his certificate of architecture for the City and County of San Francisco.

NOTICE OF NON-RESPONSIBILITY.

SAN FRANCISCO COUNTY.

Apr. 17, 1916—LOT 1044, Gift Map No. 3. George S Lillie and Ann Keefe as to improvements on leased property .....

Apr. 21, 1916—E POLK, bet. Washington and Jackson. Sarah J and Camille A Dorn as to improvements on leased property.....

RELEASE OF BUILDING CONTRACT.

SAN FRANCISCO COUNTY.

Apr. 15, 1916—W DIAMOND 163 N 20th N 50xW 125. Patrick Connell, owner; P. Algot Nelson, contractor. Releasing contract filed April 11, 1916. Released April 15, 1916.

COMPLETION NOTICES

San Francisco

Apr 14, 1916—LOT 32 BLK 2983 Claremont Court. Mabel R Mix to Barz & Hughes.....April 13, 1916

Apr. 14, 1916—NO. 2970 BROADWAY. Sidney M Ehrman to Stockholm & Allyn.....April 11, 1916

Apr. 14, 1916—NO. 275 O'FARRELL. Daniel Roth to Farrell & Reed.....
.....April 12, 1916

Apr. 14, 1916—SE JONES & VALLEJO 61-6x137-6. H P Livermore to Marcus Marcussen.....Apr. 7, 1916

Apr. 15, 1916—LOT 7 BLK 12, Forest Hill. John S Malloch and Johann J Malloch to whom it may concern .....Completed ——

Apr. 15, 1916—NE NINETEENTH Ave and Balboa E 82-6xN 25. Martin and Hans Nelson to whom it may concern.....Apr. 13, 1916

Apr. 15, 1916—SE CHERRY AND Jackson. Walter E Buck to Williams Bros & Henderson.Apr. 14, 1916

Apr. 17, 1916—W TENTH AVE 200 S Judah S 25xW 120. John M. Christiansen to whom it may concern .....Completed —

Apr. 17, 1916—LOT 5 BLK 13, Crocker Amazon Tract. W G Smith and Emma C Smith to O E Evans & Co .....April 14, 1916

Apr. 17, 1916—W LEAVENWORTH 37-6 N Filbert N 25xW 87-6. Louis and Jennie Torre to whom it may concern.....Apr. 15, 1916

Apr. 17, 1916—S FOLSOM & RITCH SE 175 SW 75 SE 50 NE 75 NW 50. Johnson Gear Co to Wade & Carlson .....April 8, 1916

Apr. 18, 1916—W ELEVENTH AVE 225 N Anza. Leo J Ruegg to whom it may concern.....Completed —

Apr, 18, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to American Marble & Mosaic Co.....Apr. 13, 1916

Apr. 18, 1916—LOT 2 BLK 23, Crocker Amazon Tract. John Bjorkman to whom it may concern..Apr. 17, 1916

Apr. 18, 1916—LOT 9 BLK 25, Crocker Amazon Tract. John Bjorkman to whom it may concern....Apr. 17, 1916

Apr. 19, 1916—E TWENTY-FOURTH Ave 75 N Balboa N 25xE 104-1. Jacob H Thorup to whom it may concern.....April 19, 1916

Apr. 19, 1916—W SIXTEENTH AVE 75 S Balboa S 25xW 82-6. Jno S Purcell to whom it may concern.. .....April 18, 1916

Apr. 20, 1916—S CLARA 250 W 5th W 25xS 80. Emil Nelson to whom it may concern.....Apr. 19, 1916

Apr. 20, 1916—E THIRTIETH AVE 25 N Clement N 100 E 120 S 25 W 25 S 25 W 25 S 50 W 75. Thomas Hamill to whom it may concern.. .....April 19, 1916

Apr. 20, 1916—E FORTY-THIRD AVE 292.6 N Fulton N 27.6x120. G Wolfenden to whom it may concern.. .....April 19, 1916

Apr. 20, 1916—E FORTY-THIRD AVE 265 N Fulton N 27.6x120. G Wolfenden to whom it may concern..... .....April 19, 1916

Apr. 21, 1916—NW VALLEJO AND Divisadero 68x137-6. Marie A Musto to Trevia & Pasqualetti.... .....April 15, 1916

Apr. 21, 1916—SE GEARY & LEAVenworth S 44xE 83-6. Gerard Invst Co to whom it may concern..... .....April 21, 1916

Apr. 21, 1916—NW POST & STOCKton. The Pacific Union Club to W D Henderson.....Apr. 20, 1916

Apr. 21, 1916—W GUERRERO 145 S 14th 25x131-9. Frank and Mary Stafford to John J Binet Co..... .....April 16, 1916

Apr. 21, 1916—NW COLUMBUS AVE and Lombard N 147-11⅛ W 72-6¾ S 113-8¼ E 167-2½. Edward Cerutti to Trevia & Pasqualetti, April 15; Same to same.April 15, 1916

LIENS FILED

San Francisco

Apr. 14, 1916—N BUSH 137-6 W Buchanan W 34-4½xN137-6. Emerick & Duncan Co vs Gertrude C Limae $106.16

Apr 14, 1916—N UNION 114-7 E Montgomery E 25 N 68-9 W 25 S 114-7. Q Scribante vs F Martinez, John Doe Calistol and Richard Roe (as Calistol & Co).....$27.75

Apr 15, 1916—NW ANZA & TWENTYthird Ave N 75xW 26-08. Edw F

Pico vs Timothy McCarthy.....$35
Apr. 15, 1916—NE GOLDEN GATE Ave and Buchanan N 119-6xE 137-6. John Scott vs Emma Levison..$367.50
Apr. 15, 1916—E EIGHTH AVE 200 S Cabrillo S 25xE 120. Bass-Heuter Paint Co vs H Glick, Otto Carson, Henry and Hattie M Tillmann..$46.87
Apr. 17, 1916—E SHOTWELL 95 S 21st. J S Guerin, $113.99; G Chessare, $38 vs A Chazel, G Cavaglieri and J Piconi .....
Apr. 17, 1916—E SHOTWELL 95 S 21st J Piconi vs A Chazel and G Cavaglieri $280
Apr. 18, 1916—N STAPLES AVE 200 E Detroit N 112-6xE 25; Lot 34, Sunnyside; N Staples Ave 225 E Detroit N 112-6xE 25 Lot 21, Sunnyside. Chas W Ashinger vs John Plattner and Kate M Plattner, J Zimdars, Homestead Co and J Hamdorff $66
Apr. 18, 1916—SE JENNINGS & KEY Ave 25x100. Acme Lumber Co vs James Petrucci, G Novello, Concetta Novello, D A Steinbaugh and Bay View Bldg & Loan Ass'n..$251.33
Apr. 21, 1916—SE FIFTEENTH AND Dolores 100x29. Pacific Portland Cement Co, Consolidated vs Christopher Weinrank and J H Daly $103.25
Apr. 21, 1916—SW NINETEENTH & Texas S 25xW 100. Pacific Portland Cement Co, Consolidated vs Kate Hannon and J H Daly....$59.88
Apr. 21, 1916—NE PALOU AVE 150 NE Keith 75x100; Lot 11 Blk 310, South S. F. R. R. Ass'n. Pacific Portland Cement Co, Consolidated vs Michele Esposito and J H Daly $81.45
Apr. 21, 1916—SE TWENTIETH & Bryant E 100xS 50. Bennett Bros vs John O McAuliffe and Mrs Bunner $105.08

RELEASE OF LIENS

SAN FRANCISCO COUNTY.

Apr. 13, 1916—N PARNASSUS AVE 75-5 W Willard W 25xN 94-4½. L B Hooker to Mary K Carson and O E Evans & Co..... ...$97.60
Apr. 14, 1916—N PARANASSUS AVE 77-5 W Willard W 25xN 94-4½. B Melano and J S Guerin & Co to Mary K Carson and O E Evens & Co .....
Apr 14, 1916—NE QUESADA AVE 275 NW Keith NW 25xNE 100. Mahoney Bros to James J Lavin.....
Apr. 21, 1916—S PACIFIC AVE 102-6 W Buchanan W 35xS 127-8¼. P P Lund, Joost Bros, Western Furnace & Cornice Co, O Dudzek and M Leutholdt, Inlaid Floor Co, Joseph Musto Sons-Keenan Co, Lyden & Bickel, Butte Eng & Elec Co, Bay Development Co, Pacific Portland Cement Co, W P Fuller Co, Pope & Talbot, Frank J Klimm, Herring's Mill, Holloway Expanded Metal Co and H E Drake to Frank A Wilkie and Mrs. L C. Auzerais.....

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
928	Emmon	Holman	500
929	Strang	Strang	2500
936	Jonas	Allen	500
937	MacGregor	MacGregor	2100
938	Same	Same	2100
939	Same	Same	2100
940	Same	Same	2100
941	Same	Same	2100
942	Same	Same	2100
943	King	Armstrong	5000
944	Brown	Eliel	7000
945	Rickabaugh	Owner	4000
946	Chandler	Chandler	3000
947	Hodkins	Whalen	400
948	Roeth	Roeth	400
950	Asumaa	Asumaa	3500
951	Hunter	Button	2490
952	Kabisins	Kabisins	2500
953	Reed	Wilson	1800
954	O'Connor	Elrod	5000
955	O'Connor	Elrod	5000
956	O'Connor	Elrod	5000
957	Greene	Kollmer	6500
961	Thompson	Thompson	1500
962	Blackman	Frances	700
963	Nethken	Nethken	900
964	Same	Same	900
965	Cluff	MacMillan	500
966	Syndicate	Syndicate	1600
967	Same	Same	1600
978	Jarvis	Peppin	3800
981	Syndicate Ivst	Owner	1600
982	Wieben	Wieben	2000
986	Hewitt	Hewitt	500
987	Gray	Sommarstrom	20000
988	Kellogg	Kellogg	1500
989	Goncalves	Thomas	425
990	Brown	Schley	1850
991	Hardwood	Kellogg	2600
992	Oakland Brewg.	Johnson	1460
993	Harris	Harris	1000
995	Morrow	McKinzie	750
997	Abrahamson	Owner	18000
998	Sadler	Daly	2272
999	Grist	Malley	2500
1000	Garcia	Thompson	1700

ALTERATIONS
(928) SW SEVENTH AND WEBSTER, Oakland. Alterations.
Owner.....G. W. Emmon, 440 Market, Oakland.
Architect ...None.
Contractor..R. Holman, 1730 Eagle Ave., Oakland.
COST, $500

DWELLING
(929) N WILDWOOD, bet. Grand Ave and Nova Drive, Piedmont. Two-story 7-room dwelling.
Owner.....V. N. Strang, 1521 9th, Alameda.
Architect ...None.
Day's work. COST, $3500

REPAIRS
(936) NW ELEVENTH AND BROADway, Oakland. Roof repairs.
Owner.....A. Jonas, Oakland.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $500

DWELLING
(937) N ELBERT 360 W Everett Ave., Oakland. One-story 5-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $2100

DWELLING
(938) N ELBERT 520 W Everett Ave., Oakland. One-story 5-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $2100

DWELLING
(939) N ELBERT 480 W Everett Ave., Oakland. One-story 5-room dwelling.
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $2100

DWELLING
(940) N ELBERT 440 W Everett Ave Oakland. One-story 5-room dwellin
Owner.....C. M. MacGregor, 470 13th Oakland.
Architect ...None.
Day's work. COST, $210

DWELLING
(941) N ELBERT 400 W Everett Ave Oakland. One-story 5-room dwellin
Owner.....C. M. MacGregor, 470 13th Oakland.
Architect ...None.
Day's work. COST, $210

DWELLING
(942) N ELBERT 320 W Everett Ave Oakland. One-story 5-room dwellin
Owner.....C. M. MacGregor, 470 13th Oakland.
Architect ...None.
Day's work. COST, $210

ALTERATIONS
(943) NW TWELFTH AND HARRI son, Oakland. Alter to four-stor brick business college.
Owner.....Joe H. King, 308 12th, Ok
Architect ...C. W. Dickey, Central Ban Bldg., Oakland.
Contractor..G. Armstrong, 163 Alca traz Ave., Oakland.
COST, $500

FRAME DWELLING
(944) LOT 9 BLK "C" Map Bella Vist Park, Oakland. All work for one an one-half-story and basement fram dwelling.
Owner.....John G. Brown.
Architect ...None.
Contractor..Harris Allen, Central Ban Bldg., Oakland.
Contractor..A. F. Eliel & Co., 143 Franklin, Oakland.
Filed Apr. 17, '16. Dated Apr. 17, '16.
Frame up 1
Brown coated 1
Completed and accepted..... 1
Usual 35 days..... 1
TOTAL COST, $700
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

FRAME DWELLING
(945) W SAN CARLOS, bet. Oaklan and Magnolia, Lot 152 Nova Piedmont Piedmont. Two-story frame dwlg.
Owner.....J. Rickabaugh, Y. M. C. A Oakland.
Architect ...None.
Day's work. COST, $400

COTTAGE
(946) LOT 62, Nova Piedmont, Pied mont. One-story cottage.
Owner.....Robt. Chandler, 568 12th Oakland.
Architect ...None.
Day's work. COST, $300

ADDITION
(947) NO. 1220 ADELINE, Oakland Addition.
Owner.....Fred Hodkins, Premises.
Architect ...None.
Contractor..Whalin Bros., 2930 22nd Ave., Oakland.
COST, $40

ALTERATIONS
(948) NO. 4127 PIEDMONT AVE., Oakland. Alterations.
Owner.....Mary Roeth, 4110 Howe, Oakland.
Architect...None.
Contractor..Chas. Roeth, 4110 Howe, Oakland.
COST, $400

DWELLING
(950) S HARWOOD 60 W Ross, Oakland. Two-story 7-room dwelling.
Owner.....Leonard Asumaa, 760 60th, Oakland.
Architect...None.
Day's work. COST, $3500

DWELLING
(951) E ARBOR AVE 250 N Hudson, Oakland. One-story 6-room dwlg.
Owner.....Oliver Hunter, 22nd and Telegraph Ave., Okd.
Architect...None.
Contractor..I. W. Button, 347 63rd, Okd.
COST, $2490

DWELLING
(952) S TAFT AVE 117 W Broadway, Oakland. One and one-half-story 6-room dwelling.
Owner.....C. Kabisins, 4480 Pleasant Valley Court, Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(953) W BROWN AVE 292½ N Hopkins, Oakland. One-story 5-room dwelling.
Owner.....Reed & Wilson, 409 8th, Oakland.
Architect...None.
Day's work. COST, $1800

DWELLING
(954) E SPRUCE 100 N Cleveland Ave. Oakland. Two-story 8-room dwlg.
Owner.....O'Connor & Elrod, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

DWELLING
(955) E SPRUCE 200 N Cleveland Ave., Oakland. Two-story 8-room dwlg.
Owner.....O'Connor & Elrod, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

(956) NE MENDOCINO AND TAFT AV Oakland, Two-story 8-room dwlg.
Owner.....O'Connor & Elrod, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

(957) S CHABOT ROAD ——, Oakland. Two-story 8-room dwelling.
Owner.....B. D. Marx Greene, 11 Hillside Court, Berkeley.
Architect...Maybeck & White, 35 Montgomery, S. F.
Contractor..Jacob Kollmer, 2753 Piedmont, Berkeley.
COST, $6500

DWELLING
(961) S LYON AVE 600 E 38th Ave., Oakland. One-story 5-room dwlg.
Owner.....Jas. Thompson, 4017 Lyon Ave., Oakland.
Architect...None.
Day's work. COST, $1500

DWELLING
(962) S E-TWELFTH 38 W 42nd Ave., Oakland. One-story 3-room dwlg.
Owner.....E. L. Blackman, 4135 E-14th, Oakland.
Architect...None.
Contractor..E. O. Frances, 4315 E-12th, Oakland. COST, $700

DWELLING
(963) W BRIDGE AVE 160 S E-16th, Oakland. One-story 4-room dwelling
Owner.....H. Nethken, 3544 Porter, Oakland.
Architect...None.
Days' work. COST, $900

DWELLING
(964) E THIRTY-NINTH AVE 125 N Kanning, Oakland. One-story 4-room dwelling.
Owner.....H. Nethken, 3544 Porter, Oakland.
Architect...None.
Day's work. COST, $900

ALTERATIONS
(965) SE NINTH AVE AND E-20TH, Oakland. Alterations.
Owner.....Mr. and Mrs. Cluff, Prem.
Architect...None.
Contractor..MacMillan & McGill, 604 28th, Oakland.
COST, $500

DWELLING
(966) E EIGHTY-SIXTH AVE 220 N E-14th, Oakland. One-story 4-room dwelling.
Owner.....Syndicate Investment Co., 1520 Broadway, Oakland.
Architect...None.
Day's work. COST, $1600

DWELLING
(967) E EIGHTY-SIXTH AVE 140 N E-14th, Oakland. One-story 4-room dwelling.
Owner.....Syndicate Investment Co., 1520 Broadway, Oakland.
Architect...None.
Day's work. COST, $1600

ADDITION
(978) SEQUOYAH HILLS, Oakland. One-story 4-room addition to dwlg.
Owner.....Dr. C. F. Jarvis, 1st National Bank Bldg., Oakland
Architect...None.
Contractor..J. B. Peppin, San Leandro.
COST, $2800

DWELLING
(981) E EIGHTY-SIXTH AVE 82 S Holly, Oakland. One-story 4-room dwelling.
Owner.....Syndicate Investment Co., 1520 Broadway, Oakland.
Architect...None.
Day's work. COST, $1600

DWELLING
(982) W GALINDO 350 W Fruitvale, Oakland. One-story 6-room dwlg.
Owner.....C. A. Wieben, 2832 E-23rd, Oakland.
Architect...None.
Contractor..Alex C. Wieben, 1461 Alice, Oakland. COST, $2000

GARAGE
(986) NE NINETY-NINTH AVE AND Stearns, Oakland. Garage.
Architect...Harry L. Hewitt, 1626 Todd Berkeley.
Architect...None.
Day's work. COST, $500

GARAGE AND STORES
(987) E BROADWAY 109 N 28th, Oakland. One-story brick and steel garage and stores.
Owner.....Harry P. Gray, 601 Jean, Oakland.
Architect...Richardson & Burrell, Albany Block, Oakland.
Contractor..Edw Sommarstrom, 202 E-12th, Oakland.
COST, $20,000

DWELLING
(988) W POMONA 640 S Main, Albany. One-story 6-room dwelling.
Owner.....I. Ariel Kellogg, 3404 Champion, Oakland.
Architect...None.
Day's work. COST, $1500

ADDITION
(989) NO. 1933 TWENTY-SECOND AVE Oakland. Addition.
Owner.....Manuel C. Goncalves, Prem.
Architect...None.
Contractor..Manuel Thomas, 1019 Cotton, Oakland.
COST, $425

DWELLING
(990) S E-FIFTEENTH 50 E 10th Ave., Oakland. One and one-half-story 5-room dwelling.
Owner.....F. Brown, 1000 E-15th, Okd
Architect...None.
Contractor..Karl Schley, 1155 E-14th, Oakland.
COST, $1850

DWELLING
(991) NE THIRTY-FIFTH AVE AND Lyon, Oakland. One-story 5-room dwelling.
Owner.....Edith Harwood, 2452 35th Ave., Oakland.
Architect...None.
Contractor..I. A. Kellogg, 3404 Champion, Oakland.
COST, $2600

ADDITION
(992) SW TWENTY-SIXTH & CHESTNUT, Oakland. One-story addition to warehouse.
Owner.....Oakland Brewing & Malting Co., Premises.
Architect...None.
Contractor..Ben O. Johnson & Son, 2014 E-30th, Oakland.
COST, $1460

INTERIOR FINISHING
(993) NO. 2216 RANSOME, Oakland. Interior finishing for one-story five-room dwelling.
Owner.....A. J. Harris, 1717 64th Ave Oakland.
Architect...None.
Day's work. COST, $1100

GARAGE
(995) NO. 836 FOURTH AVE., Oakland One-story reinforced concrete garage
Owner.....T. & J. Morrow, Premises.
Architect...None.
Contractor..McKinzie & Prough, 717 Parker Ave., S. F.
COST, $750

BRCIK GARAGE
(997) SE COR. TWENTY-NINTH AND Broadway, Oakland. One-story brick garage.
Owner.....Henry Abrahamson, 1444 San Pablo Ave., Oakland.
Architect...F. D. Voorhees, Central Bank Bldg., Oakland.
Day's work. COST, $18,000

DWELLING
(998) S FIFTY-NINTH 1000 E Shattuck Ave., Oakland. One-story four-room dwelling.
Owner.....Michael Sadler, 5311 Telegraph Ave., Oakland.
Architect ...None.
Contractor..E. B. Daly, 600 40th, Okd.
COST, $2272

STORES
(999) S BOND 50 E Fairview, Oakland One-story stores.
Owner.....J. Grist.
Architect ...None.
Contractor..F. T. Malley, 3001 Grove, Oakland.
COST, $2500

DWELLLING
(1000) S HOWARD 250 W Oakland Ave., Oakland. All work except interior and exterior plastering, cement steps and side walks for one-story 4-room dwelling.
Owner.....H. G. Garcia, Oakland.
Architect ...None.
Contractor..E. S. Thompson & Son, 3650 Broadway, Oakland.
Filed Apr. 21, '16. Dated Apr. 20, '16.
Frame up ..... ¼
Enclosed ..... ¼
Ready for plaster..... ¼
Completed ..... ¼
TOTAL COST, $1700
Bond, limit, forfeit, none. Plans and specifications, none.

Building Contracts Awarded

Berkeley.

No.	Owner	Contractor	Amt.
930	Rankin	Standard Bldg	3500
931	Boyd	Nelson	450
932	Christie	Christie	700
933	Warner	Peterson	1500
934	Heywood	Texdahl	500
935	Sims	Sims	3000
949	Hillen	Hillen	2000
977	Lovsie	Lovsie	1250
983	Boyd	Larmer	2000
984	Same	Same	2000
991	Fitch	Rogers	1416
996	Cooper	Montgomery	425

DWELLING
(930) NO. 1001 OXFORD, Berkeley. Two-story 7-room dwelling.
Owner.....S. G. Rankin, 506 Syndicate Bldg., Oakland.
Architect ...Universal Drafting Bureau Inc., 1844 5th Ave., Okd.
Contractor..Standard Bldg. Co.
COST, $3500

ALTERATIONS
(931) NO. 1915 ADDISON, Berkeley. Alterations.
Owner.....S. Boyd, Premises.
Architect ...None.
Contractor..H. P. Nelson, 2241 Grove, Berkeley.
COST, $450

BRICK GARAGE, ETC.
(932) NO. 2415 VALLEY, Berkeley. One-story brick garage and store.
Owner.....A. H. Christie, Premises.
Architect ...None.
Day's work.
COST, $700

DWELLING
(933) W FIFTH 100 S Cedar, Berkeley. One-story 5-room dwelling.
Owner..... Karry Warner, Premises.
Architect ...None.
Contractor..J. E. Peterson, 2111 Bryon, Berkeley.
COST, $1500

ADDITION
934) E GROVE 80 S University Ave., Berkeley. Addition.
Owner.....W. Heywood, 2119 Addison, Berkeley.
Architect ...James W. Plachek, Acheson Bldg., Berkeley.
Contractor..C. Texdahl, 3035 Harper, Berkeley.
COST, $500

DWELLING
(935) E FAIRFAX AVE 360 N Ygnacio, Berkeley. One and one-half-story 8-room dwelling.
Owner.....Wm. H. Sims, 1926 64th Ave., Oakland.
Architect ...None.
Day's work.
COST, $3000

DWELLING
(949) N FRANCISCO 120 W Sacramento, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Halght Ave., Alameda.
Architect ...None.
Day's work.
COST, $2000

DWELLING
(977) W TREMONT 80 S Prince, Berkeley. One-story dwelling.
Owner.... Mrs. Lovsie, 619 63rd, Okd.
Architect ...None.
Contractor..A. F. Lovsie, 619 63rd, Okd.
COST, $1250

DWELLING
(983) NO. 2306 WARD, Berkeley. One story 5-room dwelling.
Owner.....Boyd & Larmer, Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $2000

DWELLING
(984) S DERBY 80 E Ellsworth, Berkeley. One-story 5-room dwelling.
Owner.....Boyd & Larmer, Oakland.
Architect ...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $2000

(994) LOT 31 E CLAREMONT TRACT, being No. 2420 Ashby Ave., Berkeley. All work for two-story 4-room dwlg.
Owner.....J. Rollin and Emma M. Fitch, Syndicate Bldg., Oakland.
Architect ...None.
Contractor..J. F. Rogers, Oakland.
Filed Apr. 20, '16. Dated Apr. 17, '16.
Rafters up ..... ¼
Brown coated ..... ¼
Interior ready for paint..... ¼
Usual 35 days..... ¼
TOTAL COST, $1416
Bond, none. Limit, 60 days. Forfeit, $2. Plans and specifications filed.

GARAGE
(996) NO. 2933 RUSSELL, Berkeley. Garage.
Owner.....E. T. Cooper, 2931 Russell, Berkeley.
Architect ...None.
Contractor..W. S. Montgomery, 2321 Ward, Berkeley.
COST, $425

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Am
958	Adams	Adams	200
959	Murdock	Richmond	50
960	Williams	Gordon	70
968	Cole	Adams	300
969	Same	Same	300
970	Same	Same	300
971	Same	Same	300
972	Same	Same	300
973	Same	Same	300
974	Same	Same	300
975	Same	Same	300
976	Same	Same	300
979	Jenkins	Jenkins	120
980	Wilson	Bay Wkg	120
985	Surf Beach	Powell	40

DWELLING
(958) NO. 1805 WOOD, Alameda. One story 4-room dwelling.
Owner.....C. C. Adams, 3200 Fernsid Blvd., Alameda.
Architect ...None.
Day's work.
COST, $200

ADDITION
(959) NO. 1430 BENTON, Alameda. Addition.
Owner.....H. Murdock, 1775 Broadway, San Francisco.
Architect ...None.
Contractor..A. E. Richmond, 1918 41st Ave., Oakland.
COST, $50

AMUSEMENT PARK
(960) SURF BEACH, Alameda. Amusement park.
Owner.....C. Lee Williams, Premises.
Architect ...Edwin J Symmes, Pacific Bldg., San Francisco.
Contractor..Gordon & Christifuel, Chestnut & Webster, S. F.
COST, $700

DWELLING
(968) NO. 3214 MONTE VISTA AVE., Alameda. Two-story 7-room dwlg.
Owner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

DWELLING
(969) NO. 3209 MONTE VISTA AVE., Alameda. Two-story 7-room dwlg.
Owner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

DWELLING
(970) NO. 3244 BAYO VISTA AVE., Alameda. Two-story 7-room dwlg.
Owner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractnr..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

DWELLING
(971) NO. 3205 MONTE VISTA AVE., Alameda. Two-story 7-room dwlg.
Owner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractnr..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
) NO. 3225 BAYO VISTA AVE., ameda. Two-story 7-room dwlg.
ner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
hitect ...None.
tractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
) NO. 3228 BAYO VISTA AVE., lameda. Two-story 7-room dwlg.
ner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
hitect ...None.
tractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
) NO. 3208 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
ner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
hitect ...None.
tractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
5) NO. 3210 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
ner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
hitect ...None.
tractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
6) NO. 3214 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
ner.....Mark T. Cole, 3200 Fernside Blvd., Alameda.
chitect ...None.
ntractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

ELLING
9) NO. 2312 EAGLE AVE., Alameda. One-story 5-room dwelling.
ner.....C. M. Jenkins, 1516½ Park, Alameda.
chitect ...None.
y's work. COST, $1200

AREHOUSE
80) S. P. TRACKS 700 W Webster, Alameda. Warehouse.
vner.....A. D. Wilson, Security Bk. Bldg., Oakland.
chitect ...None.
ntractor..Bay Wrecking Co., 2301 Webster, Alameda.
COST, $1200

BOOTH
(985) SURF BEACH PARK, Alameda. One-story booth.
Owner.....Surf Beach Park, Premises.
Architect ...None.
Contractor..Powell Bros., 2708 Harrison Ave., Alameda.
COST, $400

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 18, 1916—LOT 9 BLK "B" Edgerly Tract, Okd. J Ed Mitchell to P A Newby.....April 17, 1916

Apr. 18, 1916—S SEVENTEENTH 100 E Campbell, Okd. Oakland Mazda Lamp Division of General Elec. Co. to Schnebly, Hostrawser & Pedgrift .....April 12, 1916

Apr. 19, 1916—LOT 172 Map Nova Piedmont, Piedmont. Margaret L Singen to M C Vaughn..Apr. 18, 1916

Apr. 20, 1916—LOT 7 AND S 8½ LOT 8 Blk 14 Amended Map Sunset Terrace, Albany. Jennie A Yori by C Bradford to O G Smith..Apr. 11, 1916

Apr. 21, 1916—SW THIRTY-EIGHTH and Manella Ave 38x105, Okd. Guy Taylor to whom it may concern... .....April 21, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 18, 1916—N FLEMING AVE 645 W Seminary Ave W 60xN 150, Okd. George H Tay Co vs Philip G Chown and Fred F Morse.....$87.09

RELEASE OF LIENS

ALAMEDA COUNTY.

Apr. 13, 1916—E THIRD AVE 110 N 14th N 140xE 150, Okd. The Turner Co to William G Gilmour....$1641.08

Apr. 7, 1916—N FOURTEENTH 75 W Franklin W 75xN 100, Okd. Bird Rymer Co to Elks' Hall Ass'n and A Matthiesen and W A Clark (as Matthiesen & Clark).....$85.80

Apr. 6, 1916—LOT 25 BLK "A" Map Bellevue Tract, Alameda. John P Maxwell to Oscar S Huntington and M H Tremble.....$90.73

CESSATION OF LABOR.

ALAMEDA COUNTY.

Apr. 19, 1916—Containing 9.459 acres and being ptn tract containing 55.98 acres conveyed by the Estate Faxon D Atherton to John Webster and Crayton Winton by deed, dated Sept. 21, 1880, recorded Liber 208 of Deeds, Pages 351 in Moraga Valley. Margaret Gavin with Moore & Thomas. Work ceased .....Apr. 7, 1916

BUILDING CONTRACTS

SANTA CLARA COUNTY.

RESIDENCE
MAYFIELD TRACT. Concrete, carpenter, brick, plumbing, plastering, and painting for one-story frame and plaster residence and barn.
Owner.....Chauncey D. Minaker, Mayfield.
Architect ...None.
Contractor..George B. Moore, Mayfield.
Filed Apr. 18, '16. Dated Apr. 12, '16.
Frame up, roof shingled.....$585.50
Plastered inside and out..... 585.50
On acceptance 585.50
Usual 35 days..... 585.50
TOTAL COST, $2342.00
Bond, none. Limit, 75 days after filing. Forfeit, $1. Plans and specifications, none.

FRAME RESIDENCE
NEAR COR. SENECA ST. AND HAMILTON Ave., Palo Alto. All work for frame residence and garage.
Owner.....W. B. Allen, 430 Ramona, Palo Alto.
Architect ...R. W. Follmer, 465 Lytton Ave., Palo Alto.
Contractor..Frank W. Fox.
Filed Apr. 14, '16. Dated Apr. 10, '16.
Frame up & garage completed..$1875
Plastering completed 1875
Job completed 1875
Usual 35 days..... 1875
TOTAL COST, $7500
Bond, $3750. Surety, National Surety Co. Limit, 90 days after April 11, 1916. Forfeit, $10. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

LOT 8 BLK 103 Map of South San Francisco, South San Francisco. All work for six-room bungalow.
Owner.....South San Francisco Land & Improvement Co., South San Francisco.
Architect ...A. B. Cavanaug (uncertificated).
Contractor..Chas. Johnson, San Mateo.
Filed Apr. 17, '16. Dated Apr. 12, '16.
Frame up $510
Rough plastered 510
Completed and accepted..... 510
Usual 35 days..... 510
TOTAL COST, $2040
Bond, $1020. Sureties, Henry Scampini and Jorgen Jorgensen. Limit, 75 days. Forfeit, $50 per day. Plans and specifications filed.

FILOLI, Cayada de Raymundo, San Mateo. Painting for two-story and basement concrete residence.
Owner.....W. B. Bourn, 375 Sutter, San Francisco.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..Wagner Bros., 530 Gough, San Francisco.
Filed Apr. 19, '16. Dated Apr. 12, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $2285

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francisco**

Bond, $1150. Surety, Massachusettes Bonding & Insurance Co. Limit, on or before Nov. 15, 1916. Forfeit, $10 per day. Specifications only filed.

"FIOLI," Cayada de Raymundo. All work to furnish and deliver hardware for two-story and basement concrete residence.
Owner.....W. B. Bourn, 375 Sutter, San Francisco.
Architect ...Willis Polk & Co., Hobart Bldg., San Francisco.
Contractor..Palace Hardware Co., 581 Market, San Francisco.
Filed Mar. 14, '16. Dated Mar. 10, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $5500
Bond, $2250. Surety, Fidelity & Deposit Co. of Maryland. Limit, Sept. 1, 1916. Forfeit, $20 per day. Specifications only filed.

RESIDENCE
LOT 15 BLK 44, Redwood Highlands Tract, Redwood City. All work for residence.
Owner.....Redwood Highlands Co., and Ella St. C. Nickerson-Stoddard, Redwood City.
Architect ...None.
Contractor..Not Given.
Filed Apr. 14, '16. Dated May 7, 1915.
Payments not given.....
TOTAL COST, $——
Bond, none. Limit, commenced 45 days from date. Forfeit, none. Plans and speifications, filed.
NOTE:—This document was filed and made a part of an agreement of sale of real estate.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Apr. 15, 1916—LOT 11 of the Reserved Villa Lots of Bome Estae Co, San Matto. Alice A Myers to O W Britt .....April 15, 1916
Apr. 18, 1916—LOT 36 BLK 57, Easton Add'n to Burlingame No. 6, Burlingame. Henry East to whom it may concern.....Apr. 13, 1916

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
Apr. 18, 1916—W FIRST, bet San Fernando and San Antonio, San Jose. Nos. 135-139 S First. L Bloom Sons Co, Inc to J C Thorp.....Apr. 8, 1916

RELEASE OF LIENS.

SAN MATEO COUNTY.

RECORDED AMOUNT
Apr. 18, 1916—PTN LOTS 1 AND 2 Blk 5, Burlingame Park, Burlingame. Edward Brady to Samuel Hill and S B Kress $34.25

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

BRICK STORES
MAIN ST., at Alhambra, Martinez. All work for one-story brick stores.
Owner.....A. E. Blum, 713 Main St., Martinez.
Architect ...None.
Contractor..Ecker Bros.
COST, $5000

BRICK LOFT BUILDING
PTN LOTS 6 AND 7 BLK 323 of Additional Survey of Town of Martinez. Concrete work, iron and steel, brick, carpenter and mill, roofing, tin and galvanized iron, glass and glazing, hardware, plastering, etc., for two-story brick loft building.
Owner.....J. A. Kelly, Main and Ferry Sts., Martinez.
Architect ...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..C. H. Ludden and R. W. Lambly Estudillo & Thompson Sts., Martinez.
Filed Apr. 14, '16. Dated Apr. 4, '16.
Brick work completed.....$1492.25
Plastering completed 1492.25
Completed and accepted..... 1492.25
Usual 35 days..... 1492.25
TOTAL COST, $5969.00
Bond, $5985. Surety, Fidelity & Deposit Co. of Maryland. Limit, within 60 days. Forfeit, none. Plans and specifications filed.

HOTEL
LOT 6 BLK "G" in Central Addition to Town of Black Diamond (now Pittsburg). Sewering, plumbing, piping for water and gas fitting for three-story and basement brick and steel hotel.
Owner.....S. Caruso & Bros., 363 Black Diamond St., Pittsburg.
Architect ...A. W. Cornelius, 625 Market St., San Francisco.
Contractor..Frank C. Brennan, Pittsburg, Cal.
Filed Apr. 12, '16. Dated Apr. 4, '16.
Material delivered on premises..$200
75% of material furnished and work done and building plastered 75% of contract price less previous payments .....
Usual 35 days..... 25%
TOTAL COST, $2250
Bond, $1125. Sureties, Ira E. Casper and Geo. Aitkens. Limit, 60 working days. Forfeit, none. Plans and specifications filed.

FRAME APARTMENTS
LOT 1 BLK 96 as per Official Map of City of Pittsburg. All work for two-story frame apartments.
Owner.....Chas. E. Perry, Pittsburg.
Architect ...O. R. Thayer, 20 Montgomery, San Francisco.
Contractor..C. E. Doty, Inc., 443 Georgia St., Vallejo, Cal.
Filed Apr. 15, '16. Dated Apr. 1, '16.
2nd floor joists in place.....$945
Roof on 945
Brown mortar on..... 945
Standing finish on..... 945
Completed and accepted..... 945
Usual 35 days..... 945
TOTAL COST, $6300
Bond, $3150. Surety, New Amsterdam Casualty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
SIXTH AND ENTERPRISE, Richmond. Frame dwelling.
Owner.....Mrs. Mary A. Lucas, 825 6th St., Richmond.
Architect ...None.
Contractor..J. A. Fagestrom, 23 9th St., Richmond.
COST, $2080

FRAME RESIDENCE
OAK ST., Martinez. All work except heating and wiring for two-story and basement 8-room frame residence.
Owner.....A. J. McMahon.
Architect ...A. A. Cantin, 68 Post, S. F.
Contractor..Luke Bulger & Son, Green and Castro, Martinez.
COST, $4492

FRAME RESIDENCE
PINE ST., Fraser Addition, Martinez. One-story and basement 7-room frame residence.
Owner.....Dr. E. B. Fitzpatrick, Ferry near Main, Martinez.
Architect ...W. A. Doctor.
Contractor..Holliday & Olsen, Martinez.
COST, $4547

RELEASE OF LIENS.

MARIN COUNTY.

RECORDED AMOUNT
Apr. 19, 1916—SAN ANSELMO, Acme Lumber Co to Hamilton Mills Jr. $161.31

BUILDING CONTRACTS

FRESNO COUNTY.

ALTERATIONS
LOTS 30, 31, 32 BLK 52, Fresno. Demolish and replace awning.
Owner.....Mrs. Bennett.
Architect ...None.
Contractor..F. J. Stone, 2007 Mariposa St., Fresno.
COST, $1255

DWELLING
LOTS 18 TO 21 BLK 2, Palm Villa, Fresno. Dwelling.
Owner.....Fresno Home Builders, 922 J St., Fresno.
Architect ...None.
Contractor..A. D. Wilkins, 264 Ivy St., Fresno.
COST, $4985

DRILLING WELL
SW ¼ of Sec 6, 20-15, Fresno. All work for drilling oil well.
Owner.....General Petroleum Co.
Architect ...None.
Contractor..W. D. Head Drilling Co.
Filed Apr. 13, '16. Dated ——.
Payments not given.....
TOTAL COST, $3 per foot drilled and casing set.
Bond, $1000. Surety, New Amsterdam Casualty Co. Limit, forfeit, plans and specifications, none.

DRILLING WELL
SW ¼ of SEC 6, 20-15, Fresno. All work for drilling oil well.
Owner.....General Petroleum Co.
Architect ...None.
Contractor..W. D. Head Drilling Co.
Filed Apr. 13, '16. Dated ——.
Payments not given.....
TOTAL COST, $3 per foot drilled and casing set.
Bond, $1000. Surety, Fidelity & Deposit Co. of Maryland. Limit, forfeit, plans and specifications, none.

LOTS 23 TO 25 BLK 142, Fresno. Addition to cold storage plant and construct smoke house.

ner.....Western Meat Co., 714 P St., Fresno.
chitect ...None.
y's work. COST, $7500

RESSING ROOM
LMA. All work for women's dressing room.
ner.....Libby, McNeil & Libby, 31st and P Sts., Fresno.
chitect ...None.
ntractor..J. H. Peak.
led Apr. 17, '16. Dated Mar. 31, '16.
Foundations in $350
Frame up 500
Completed 600
30 days after..... 175
TOTAL COST, $1625
ond, none. Limit, 30 days from May Forfeit, none. Plans and specifications filed.

DDITIONS
OTS 13 AND 14 BLK 7, Yosemite Addition. Fresno. Additions.
wner.....E. T. Cooley, 106 Paplor St., Fresno.
rchitect ...None.
ontractor..C. V. Smith, 1371 Del Mar St., Fresno.
COST, $1000

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

April 19, 1916—LOTS 9 & 10 BLK 19, North Park Terrace. W M Parker as to improvements on leased property .....

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
Apr. 19, 1916—LOTS 7 AND 8 BLK 81, Fresno. M M Schooshan to whom it may concern..Apr. 18, 1916
Apr. 13, 1916—LOTS 8 BLK 2, Bloomington Add'n No. 2, Fresno. C G Eberhart to whom it may concern .....April 8, 1916

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

ICE STORAGE BUILDING
NINTH, bet C and D Sts on Ptn Lots 3 and 4, C. D, 8th and 9th Sts., Sacramento. One-story masonry ice storage building.
Owner.....Consumers Ice & Cold Storage Co., D St., Cor. 8th St., Sacramento.
Architect ...None.
Contractor..McGillivray Constr. Co., Nicolaus Bldg., Sacramento
COST, $8000

DWELLING
NO. 2528 CARNEGIE AVE, on Lot 2 Blk "P" Highland Park, Sacramento. One-story 5-room dwelling.
Owner.....C. D. McClung, 2528 Carnegie Ave., Sacramento.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
NO. 100 K ST., Lots 1, 2, K, L, 4th and 5th Sts., Sacramento. Place office partition in store.
Owner.....Weinstock-Lubin Co., 100 K St., Sacramento.
Architect ...None.
Day's work. COST, $600

REMODEL ROOF
NO. 311 J S., I, J, 3rd and 4th Sts., Sacramento. Remodel roof on store.
Owner.....T. Blauth, 407 K St., Sacramento.
Architect ...None.
Contractor..Chas. A. Vanina, 2022 M St., Sacramento.
COST, $400

FRAME DWELLING
FIFTIETH near Brighton Ave Ptn Lot 13, Wright & Kimbrough Tract No. 1, Sacramento. Four-room frame dwlg.
Owner.....George Baldini, 1731 Dewey, Sacramento.
Architect ...None.
Day's work. COST, $1200

REMODEL RESIDENCE
NO. 512 P ST., on W ½ of E ½ Lot 2 Blk P. Q. 5th and 6th Sts., Sacramento. Remodel residence.
Owner.....John Meyer, 1321 5th St., Sacramento.
Architect ...None.
Day's work. COST, $400

SHED
NO. 1436 UPPER STOCKTON ROAD on Lot 7822 of Goethe Sub. No. 78, Sacramento. Build shed.
Owner.....S. E. Francis.
Architect ...None.
Day's work. COST, $350

BRICK WAREHOUSE
NO. 2018 I ST., on W 53⅓ feet Lot 3 Blk 1, J, 20th and 21st Sts., Sacramento. Two-story brick warehouse.
Owner.....Warren-Hicks, 1117 J St., Sacramento.
Architect ...None.
Contractor..W. R. Saunders, 2810 I St., Sacramento.
COST, $1000

FRAME FLATS, ETC.
NO. 1115 T ST., on E ½ of Lot 7 S, T, 11th and 12th Sts., Sacramento. Two-story frame flats and store (milk depot).
Owner.....Mrs. J. M. Nevis, 1515 21st St., Sacramento.
Architect ...None.
Contractor..P. F. Reed, 2613 28th St., Sacramento.
COST, $3000

FRAME DWELLING
NO. 811 S ST., on W ½ of Lot 7 R, S, 8th and 9th Sts., Sacramento. Six-room frame dwelling.
Owner.....P. J. Lombardi, 1729 9th St., Sacramento.
Architect ...None.
Contractor..Peter Leoni, 1330 V St., Sacramento. COST, $2500

MOVE DWELLING
W ½ LOT 7 R, S, 8th and 9th Sts., Sacramento. Move three-room dwelling to rear of lot.
Owner.....P. J. Lombardi, 1729 9th St., Sacramento.
Architect ...None.
Contractor..Peter Leoni, 1330 V St., Sacramento. COST, $2500

REMODEL RESIDENCE
NO. 1227 P ST., on W ½ of Lot 7 Blk O, P, 12th and 13th Sts., Sacramento. Remodel residence.
Owner.....Mrs. C. S. Schwilk.
Architect ...None.
Contractor..E. Thomas, 2021 42nd St., Sacramento.
COST, $500

REMODEL RESIDENCE
NO. 2501 Q ST., on W ½ of S ½ Lot 8 Blk P. Q, 25th and 26th Sts., Sacramento. Remodel attic of residences.
Owner.....Mr. Graham.
Architect ...None.
Contractor..Chatterton Bros., 3126 T St. Court, Sacramento.
COST, $300

OIL STORAGE TANK
NO. 1116 NINTH ST., on N ½ Lot 5 K, L, 8th and 9th Sts., Sacramento. Place 500-gallon oil storage tank 4 feet underground in Quaker Cafeteria.
Owner.....Geo. W. Peltier, Premises.
Architect ...None.
Contractor..Sacramento Burner & Oil Company.
COST, $300

COMPLETION NOTICES.

SACRAMENTO COUNTY.

RECORDED ACCEPTED
Ap. 18, 1916—N 90 FEET OF W ½ Lot 1 J, K, 8th and 9th Sts., Sacramento. Sacramento Valley & Trust C to J Harry Wygant..... .....April 12, 1916
Apr. 18, 1916—THIRTY-SECOND & Sacramento Aves., Sacramento. Rev F Ellis to L G Barton and E Hite .....April 14, 1916

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Apr. 17, 1916—N ½ LOT 6 U, V, 12th and 13th Sts., Sacramento. R W Parker & Son vs H L and Bertha L Mee $17.40

BUILDING CONTRACTS.

SAN JOAQUIN COUNTY.

SCHOOL, ETC.
LOT 3 BLK 11 West, Stockton. All work for two-story school and dormitory.
Owner.....I. Akaba, T. Miyata, T. Nakagawa and K. Saito, as agents for the Sushi Shogakko and Shushi Yochien.
Designer ...J. W. Burke, 725 W-Park St., Stockton.
Contractor..O. H. Chain, 511 W-Willow St., Stockton.
Filed Apr. 5, '16. Dated Apr. 3, '16.
Foundation finished $547.50
Frame up, walls sided and roof shingled 547.50
When finished 547.50
Usual 35 days..... 547.50
TOTAL COST, $2190.00
Bond, $1095. Sureties, T. B. Littleton and F. J. Viebrock. Limit, 35 days. Forfeit, none. Plans and specifications filed.

MARBLE WORK, ETC.
MAIN AND SUTTER STS., Stockton. All interior marble and tile work for one-story Class "A" bank building.
Owner.....Stockton Savings Bank, 34 N-San Joaquin St., Stockton by P. J. Walker Co., Monadnock Bldg., S. F.
Architect ...C. W. Dickey, Central Bk. Bldg., Oakland.
Contractor..H. F. Fischer Tile & Mantel Co., 318 N-California St. Stockton.

Filed Apr. 5, '16. Dated Mar. 27, '16.
Monthly payments of..... 75%
Usual 35 days.....Final
TOTAL COST, $5249

Bond, $2625. Surety, Maryland Casualty Co. Limit, 20 days after notice. Forfeit, amount of damage. Plans and specifications filed.

ALL INTERIOR MARBLE WORK, including reinforced concrete backing and certain fireproofing and wall construction on above.

Contractor..American Marble & Mosaic Co., 25 Columbia Sq., San Francisco.

Filed Apr. 3, '16. Dated Mar 22, '16.
Payments same as above.....
TOTAL COST, $31,100

Bond, $15,500. Surety, American Surety Co. of New York. Limit, 60 days after notice. Forfeit, amount of damage. Plans and specifications filed.

METAL WINDOWS AND FRAMES ON above.

Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.

Filed Apr. 3, '16. Dated Mar. 22, '16.
Payments same as above.....
TOTAL COST, $3100

Bond, $1550. Surety, United States Fidelity & Casualty Co. Limit, 5 days after notice. Forfeit, amount of damage. Plans and specifications filed.

MECHANICAL AND MAGNETIC PROPERTIES OF STEEL.

A review of the work done in correlating the magnetic and mechanical properties of steel has been published by the United States Bureau of Standards in its Scientific Paper No. 272. The magnetic method tests the whole amount of material and not merely some surface phenomenon. It does not destroy the test piece, but leaves it unaltered. Thus it is found to be possible to apply a magnetic test to the identical material that is to enter into a given structure. Copies of the publication, the title of which is "Correlation of the Mechanical and Magnetic Properties of Steel," will be sent free upon request to the Bureau of Standards, Washington, D. C.

The International Association for Testing Materials has designated the subject covered in this book as one of the important problems of today, and has assigned its investigation to a special committee.

COMPLAINTS AGAINST AMERICAN MANUFACTURERS.

By Ralph M. O'dell in Commerce Reports
Batavia, Java.

During the course of my trade investigations in Java I have heard three distinct complaints against American manufacturers, and as they were in every case carefully substantiated it seems advisable to enumerate them. The first is but a repetition of the old complaint regarding insufficient postage on letters, an unfortunate practice which seems to persist in spite of the plan of the post office to return letters to the firms despatching them when they do not have sufficient postage. I was in the office of a large importer when his mail from the United States arrived. Of the 11 letters which he received 10 of them had only 2-cent stamps, 1 had no stamps at all, and only 3 had sufficient postage. The importer had to pay 2.75 guilders ($0.10) to cover the amount due for postage and the penalty which is always exacted in such cases. I looked over the letters and was rather surprised to find that several of them were from large firms that have been engaged in export trade for years. The importer stated the same thing happened with every mail, and it naturally caused him considerable annoyance. I explained to him that the fault was often due to the carelessness of a clerk, but he maintained that firms who did not take care to see that their letters to foreign countries carried sufficient postage were not the sort of firms with which he would care to do business.

Imoroper Addresses.

The second complaint was based on improperly addressed letters. The importer who spoke of this and showed me letters to confirm his statement has printed on his own letterheads after the name of his firm the names of the four cities in which he maintains offices, viz, Soerabaia, Amsterdam, Batavia, Padang. Quite frequently he received letters with the names of all four places on the envelope beneath the name of his firm. Soerabaia and Batavia are Java, Padang in Sumatra and Amsterdam is in Hollond. If an American manufacturer received a letter from a foreign firm addressed Chicago, New York, San Francisco, Buenos Aires, he would probably conclude that the writer was either crazy or that his ignorance was so great that it would be out of the question to open business relations with him. And yet I have seen letters here from American firms of first class standing addressed in the manner mentioned, while others were addressed to Soerabaia, Holland. It may, of course, be claimed that the importer here ought to state in clearer terms the location of his various offices, but it never occurs to him that anyone will be so ignorant of the geography of the world as not to know where such important cities as Soerabaia, Batavia, Amsterdam, and Padang are located.

Lack of Business Courtesy.

The third complaint brought to my attention may be stated as follows: A large importer here wrote to an American firm regarding sulphate of ammonia. The latter replied quoting a price on one quality and stating that other qualities could be supplied, and that prices would be quoted if desired. Upon receipt of the letter the importer in Java cabled immediately to the firm asking for prices on one of the qualities which had not been given, and adding that he could hook a large order. There was absolutely no reply to his cable, and so the importer wrote a letter to the firm inquiring as to why it had made a firm offer and yet declined to reply to the cablegram. The only reply that the American firm made (by letter) was that it was not prepared to take the business.

A somewhat similar complaint came from a cotton-goods importer, who got in touch with an exporter of cotton goods in New York. The latter wrote to the firm here, expressing interest in the market and requesting that a collection of samples be made which would show the kinds of goods in demand and which would form the basis of a collection of counter samples that the New York exporter promised to submit. It should be stated that the importers here are constantly in receipt of requests for samples from European and American manufacturers, and anyone who has ever been engaged in the trade will appreciate the fact that it is no easy matter to prepare a collection of cotton goods samples and ticket each sample giving all the necessary specifications. In this case the firm here was anxious to introduce American cotton goods and desired to see samples of them. Hence a collection of cloths in local demand was carefully prepared, the head of the firm giving particular attention to the matter, and they were forwarded to the New York exporter who had expressed interest in the market. No acknowledgment of the receipt of the samples and no further communication has ever been received by the firm here, and the next request for samples from an American firm is not likely to be granted.

Importance of Javanese Trade.

Such incidents as have been related are greater obstacles to the development of trade than Americans realize, and all cause for such complaint ought to be removed. This is particularly desirable in the Dutch East Indies, because American goods are just beginning to get a foothold here, and if Americans carefully cultivate the market it promises to become an important outlet for our products in the next decade. Those who are not aware of the importance of this market should be reminded that the Dutch East Indies contain a population about equal to that of South America. Java alone has 30,000,000 inhabitants, and they are large consumers of foreign goods. In 1913 the total imports of merchandise into Java amounted to $120,653,868, and the imports into the entire Dutch East Indies $175,546,566. These figures give some idea of the importance of the market and show why American manufacturers should exercise great care in their effort to secure a share of the trade.

INCREASED OUTPUT OF AMERICAN PIG IRON.

In stating the general results of the 1914 census of manufactures for the pig-iron industry, the United States Bureau of the Census, Department of Commerce, gives additional facts for 1915, showing that although the quantity and value of products in the census year represented a reduction from the record of 1909, with which it is compared, there was a marked increase in production for 1915, or 16.6 per cent more than in 1909. The output for the first half of 1915 was 12,233,791 tons, and for the second half of the year 17,682,422 tons, yielding a total for the year of 29,916,213 tons, an advance of 4,264,415 over the total for 1909.

In the collection of the regular statistics for 1914 reports were received from 160 establishments with 284 active blast-furnace stacks, while in 1909 there were 208 establishments with 370 active stacks, a decrease of 48 at 23.1 per cent in the number reporting for 1914. The pig-iron products of the concerns reporting in 1914 aggregated 23,269,731 tons, valued at $312,639,706, and the value of their

other products amounted to $4,919,347, making a total of $317,559,053. At the census of 1909 there was a product of 25,651,798 tons of pig iron, valued at $387,830,443, and there were other products of the value of $3,598,840, making a total of $391,429,283. The pig-iron production decreased in amount by 2,382,067 tons, or 9.3 per cent, and in value by $75,290,737, or 14.2 per cent.

Of the total pig-iron production in 1914, 15,495,004 tons were for the use of the producers and 7,774,727 tons for sale, as compared with 15,859,203 and 9,792,595 tons, respectively, in 1909, the decrease being 2.3 per cent in the amount made for consumption by producers and 20.6 per cent in that produced for sale.

MANUFACTURE OF SAND-LIME BRICK ON THE INCREASE.

The report on sand-lime brick soon to be issued by the Geological Survey will show that sales of this product in 1915 were 179,643,000 brick, valued at $1,135,104, which was an increase of 7,014,000 brick or 4 per cent in quantity and of $76,592 or 7 per cent in value over 1914. Michigan was the leading State, reporting sand-lime brick marketed to the value of $286,948 or over one-fourth of the quantity and value of the sand-lime brick sold in the United States. Minnesota was second and New York third. The sand-lime brick industry, after experiencing the ups and downs of a new industry, the report states, has become firmly established and has found "its place in the sun." Many operators are reported as enlarging the capacity of their plants in anticipation of increased business during 1916.

COUNTRY-WIDE NATIONAL DEFENSE CANVASS.

An Appeal to the Seven Hundred Organizations of the Chamber of Commerce of the United States. Probably the Most Extensive Effort of Its Kind Ever Made—to Determine the Exact Sentiment of the Country Towards National Defense.

WASHINGTON, D. C., April 15.—How the people of the country really feel toward the subject of national defense—which up to this time has been largely a matter of conjecture—may be learned as a result of a canvass just begun by the Chamber of Commerce of the United States. It will be, it is said, the most thorough and comprehensive effort ever made to ascertain country-wide sentiment on a question so prominently before the people and Congress. A referendum—the fifteenth since the organization of the National Chamber—has gone to 700 commercial bodies, to every state in the Union, representing some 300,000 business men. Our insular possessions and also many American chambers of commerce abroad will also be heard from. These commercial bodies will be asked to vote for or against recommendations contained in the report of a special committee of which Bascom Little, of Cleveland, is the chairman.

What the National Chamber Committee Recommends.

This committee recommends that, for the preservation of the peace and honor of the United States, the national defense forces both on sea and land should be so increased and the industrial resources so co-ordinated as to make fully available the military, industrial, and financial strength of the nation. It is urged that a body in the nature of a council of national defense be created by law to assist in the development of an adequate and continuing policy for national defense.

The committee recommends that a staff of industrial mobilization be forthwith created by law and so organized and maintained in times of peace as to insure the most effective use of the economic resources of the United States in case of war. It is advocated that a program of naval construction be adopted immediately sufficient to restore the United States at least to its former position of second naval power in the Atlantic, with a surplus in the Pacific sufficient to protect the coasts, its possessions, its trade routes, the Canal Zone and adjacent territory.

The committee asks to have created by law a general staff for the navy by strengthening the present Office of Naval Operations by the Navy Department, or otherwise. A recommendation is made that the regular army be increased until it, together with its trained reserves, shall be sufficient to furnish the first line of land defense as recommended by the General Staff of the Army, or by the Council of National Defense or similar body after it has been created by law.

Universal Training Urged.

The committee, recognizing the military obligation equally with the civic obligation as a fundamental duty of democratic citizenship in a republic and to establish a system which will affect every man alike, recommends that universal military training be adopted as a fundamental democratic principle of our military policy and be enforced by law to furnish adequate land, sea and industrial forces in peace and war. Recognizing that the constituent elements of necessary war material are of such infinite variety that they cannot all be produced in government plants in time of war but are and must be produced in highly diversified and specialized industries, the committee recommends that a fundamental feature of the national policy for supplying war material should be to educate private industry in time of peace in the manufacture of such material, under mutually prearranged government regulation of prices, rather than to trust to production in government plants alone.

The committee urges that the educative arrangements with private manufacturers for the production of war material in time of peace serve not only to supply current needs of the army and navy but also to accumulate a reserve of war material sufficient to supply our land and sea forces, both regular and reserve, from the beginning of a possible war until such time as the industries of the country can produce the increased supplies then requisite. Finally, it is proposed that an adequate number of commissioned and non-commissioned officers be added to the regular army for detached service and that a properly trained Officers' Reserve Corps be created sufficient to officer the very large number of men who would have to be raised immediately in the event of war.

Prominent Committee Men.

In view of the fact that the subject of national defense is now being actively discussed by Congress, the personnel of the special committee of the National Chamber, which framed the above specific recommendations, is of particular import.

Mr. Little, the chairman, is the president of the Cleveland Chamber of Commerce. The other members are: Bion J. Arnold, of Chicago, former president of the American Institute of Electrical Engineers; Hugh Chalmers, of Detroit, president of the Chalmers Motor Company; D. S. Chamberlain, of Des Moines, head of the Chamberlain Medicine Company; W. H. Cowles, editor of the Spokane Review; Prof. Henry C. Emery, of Providence, former chairman of the Tariff Board; Louis T. Golding, editor of the News Press of St. Joseph, Mo.; Capt. Matthew E. Hanna, U. S. A. retired.

Also Dr. Ira N. Hollis, president of the Worcester Polytechnic Institute, and for nineteen years an officer in the Navy; Brig. Gen. Albert J. Logan, of the Pennsylvania National Guard; Franklin T. Hiller, of Newton, Mass., president of the F. W. Dodge Company; J. Bernard Walker, of New York, editor of the Scientific American; Henry A. Wise Wood, of New York, vice president of the Aero Club of America, and formerly a members of the Naval Consulting Board; and James L. Wright, Adj. Gen. of the Louisiana National Guard and president of the Bankers' Loan and Securities Company of New Orleans.

Concede Possibility of Attack.

The question of national defense was brought to the consideration of the Board of Directors of the Chamber of Commerce of the United States through resolutions presented by widely separated organizations. They were the Skokane Chamber of Commerce, the Knoxville Board of Trade, and the New York Merchants' Association. It revealed the fact that business men were actively thinking along the lines of industrial as well as military preparedness. Measures were undertaken to select a special committee as early as last September. It met for the first time in January. Its report, which accompanies the referendum, says significantly: "The possibility of attack we know does exist and no amount of innocence and good feeling can prevent its occurring if the strong, the unjust and the greedy decide to embark upon it."

Council of National Defense.

The committee declares that to head in and co-ordinate the naval and military resources of the country with the economic resources, and place them all in perspective to accord with the needs and policies of the nation, calls for comprehensive consideration which can only be supplied by some body such as a Council of National Defense. Only by such a means can the views and plans of the military, naval, congressional and civilian elements of the national government be revealed in a comprehensive and at the same time cohesive whole. Without such an assembly of tht responsible and directing heads of affiairs for united council, the committee believes, the unique and transcendent potential power of the United States may fail its citizens in a

crisis. Whatever form the council may take the committee is of the opinion that it should include civilian business administrators of eminent standing to be appointed by the President.

Last Hour Legislation Ineffective.

Arguing for a staff of industrial mobilization, the committee says that our own experiences in the Spanish and Civil wars, and the subsequent experiences of other nations, up to and including the present war, have shown disastrous results through lack of immediately available industrial capacity. It is recognized that the success of armies and navies depends upon organized industry, that such organization of industry must be prearranged, and that it increases industrial efficiency in times of peace. Although about 40 per cent of the army budget is now being spent for materials and transportation, no legislation has been proposed insuring and controlling their supply. No amount of "last-hour" legislation can afford protection when trouble is imminent and it can never take the place of prearranged organization and training.

Naval Program.

Additional significant paragraphs from the committee report are quoted:

"The first line of national defense, by our geography, is the navy. And if attached, the cheapest, most effective and safest defense by the navy can only be obtained if it is strong enough to seek out and destroy the enemy at sea and certain at a distance for our shores sufficiently great to render invasion impracticable and thus eliminate the alarm and consequent commercial and financial paralysis and loss which accompany the immediate menace of such a danger."

An Adequate Regular Army.

"To support the regular army and the National Guard, we have today only the untrained citizen and the unorganized industries of the country. Undoubtedly they constitute the real defensive strength of the nation, provided there be time to train the citizens and to divert our industries to the production of war matreials. The experience of Great Britain in the present war in Europe plainly, however, teaches that at least six months will elapse before the first re-enforcements of trained volunteers can be secured by this method, and it is doubtful whether they could be secured at all if our territory, our great industrial regions and our centers of population, wealth, commerce and government along and near our coasts were not kept practically free from the invader. Calm consideration of the probable course of events in case we were invaded forces the conclusion that we would not be thus free from molestation during the months that would be needed to mobilize our resources in men and industries.

"The committee believes that there can be no military organization together with its industrial and economic complement, in a great democracy such as ours which will be either desirable or safe, much less adequate, unless it lays down for all time the principle that equal rights mean equal obligations. As there can be no question of rich or poor, privilege or non-privilege, in the great question of national defense, a system of universal training, in the opinion of the committee, is not only the sole solution of our ultimate military problems, and the problems of industrial mobilization inseparable from them,—it is more, for it constitutes the most effective means of having every citizen share equally and without regard to position in life, his obligation to be ready and prepared to preserve the safety and welfare of his country.

Industrial Foresight.

"With a strong navy and with the nucleus of an adequate army, together with a proper organization of our industrial resources, our diplomatic utterances should have so much weight that actual war would be a remote contingency. With such an organization for preparedness, no a firm working basis, it is inconceivable that a first class power would attempt to invade this country, unless the provocation were very great. If such a system be regarded as preventive insurance, it is insurance without cost, for it would be more than paid for by the development of industrial efficiency and harmony that would follow its adoption. Economy, rapidity of production, better distribution of labor, and a fine sense of collective responsibility on the part of everyone would result."

EASTERN NURSERY STOCK A MENACE TO WESTERN WHITE PINE FORESTS.

To Prevent if Possible Federal Plant Quarantines, Eastern Nurserymen Asked by Department of Agriculture Not to Ship White Pine, Gooseberry, or Currant Stock in West.—Full Co-operation May Obviate Federal Plant Quarantine.

WASHINGTON, D. C.—The United States Department of Agriculture, through the Federal Horticultural Board, has sent to all eastern nurserymen an urgent request not to ship white pines, currants and gooseberries west of North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. This action has been taken in order to protect the white pine forests of the West from the white pine blister rust without, if possible, the imposition of a burdensome plant quarantine. At a conservative estimate, the value of the government and private holdings in these forests is $240,000,000. They would be in serious danger if the white pine blister rust, which has now gained a foothold in six eastern States and is suspected in the Ohio Valley, should spread to the Rocky Mountains. Gooseberries and currants are included in the Department's request because they can carry the disease as well as the white pine itself.

Warning to Western States.

At the same time, the Department has issued a warning to the States within the range of the western white pines, of the danger of allowing nursery stock of these three kinds, from eastern nurseries, to enter their territory. Inspectors of all western States have been asked to notify the Federal Horticultural Board of any shipments from points east of the States named. The reason for this action is that the white pine blister rust, a very destructive disease to all white pines, occurs also in different form, as a leaf disease on currants and gooseberries. These two plants, therefore, may carry the disease to new regions and infect local white pine. Like citrus canker and chestnut blight, the white pine blister rust was brought to this country on imported nursery stock, before the passage of the Federal Plant Quarantine Act.

The Department, in its letter to nurserymen, points out that if no shipments of these three plants are made from infected or suspected territory into the West, further action may be unnecessary. If, however, nurserymen ignore this request it is practically certain that at an early date a Federal quarantine, which will prohibit the interstate movement of these plants from the infected States, will have to be established.

PACIFIC MAIL SERVICE TO BE CONTINUED.

[From Panama Canal Record.]

Following the purchase of a controlling interest in the Pacific Mail Steamship Co. from the Southern Pacific Co. by W. R. Grace & Co. and the American International Corporation, the Pacific Mail service between San Francisco and Balboa, consisting of direct sailings and sailings with calls at intermediate ports in Central America, will be continued, and the ships will remain under the American flag for the present.

It is the aim of the new owners, according to the statement of the representative of W. R. Grace & Co. in Panama, to make the Central American service more regular than it has been heretofore, and eventually to equip it with improved steamers. By removing the steamship line from the ownership of a railroad company operating a rail line in the United States, arrangements can be made to operate its vessels through the canal, and some of the vessels will make Cristobal their terminus, as has been done by the Salvador Railway Co.'s vessels, the vessels of the Peruvian and Chilean lines, and of the Pacific Steam Navigation Co. Announcement has been made of the recent purchase of three ships from the Royal Dutch West India Mail for use in this service. [These are the Venezuela, of 5,641 tons, the Colombia, of equal tonnage, and the Ecuador, of 5,688 gross.]

The corporate entity of the Pacific Mail Steamship Co. is to be preserved, and the agency at Balboa will be maintained separately from the agency of W. R. Grace & Co. in Panama, as well as from the International Banking Corporation, a subsidiary of the American International Corporation.

The Pacific Mail service between Balboa and San Francisco employs seven vessels, averaging approximately 6,000 tons gross, with length of about 300 feet, carrying passengers and cargo. They are the Aztec, City of Para, Newport, Pennsylvania, Peru, San José, and San Juan.

The steamship China, the last of the company's ships employed in its abandoned Oriental service, has been sold to the China Mail Steamship Co.

INDUSTRIAL TASK OF BUREAU OF STANDARDS.

Among the important tasks undertaken recently by the United States Bureau of Standards was that of the inspection of some 30 electrical establishments and laboratories and installa-

ns, including some of the great hydoelectric plants, to obtain information of actual working conditions. The sults of the tour are expected to be importance in the bureau's work on ectrical instruments.

Some other activities related to clay roducts, metals, soap and sealing wax. member of the bureau also assisted a short course given in clay workng at the Iowa State College, and apers were read before the convenion of the American Ceramic Society, he National Brick Manufacturers' Asociation, and the National Lime Manufacturers' Association, and at committee meetings of the American Soiety for Testing Materials.

In the clay-products laboratory of he bureau there were tests of fire rick, fire clay for the Panama Canal, nolding sand, absorption and alkali tests of building brick, tests to determine the corrosive action of slag on 10 brands of fire brick, compression tests were made on brick and tile, 35 samples of cement were analyzed and 63 determinations of cement were made for the Northampton laboratory and the War Department.

At the bureau's foundry 255 castings were made from 92 patterns in a single month, several coated metals were tested for the Panama Canal, there were tests of bronze and nickel, and fusible plugs were tested for the Steamboat-Inspection Service. For the same service, many fire extinguishers were examined for the purpose of revising the list of extinguishers approved for use on vessels.

Eight samples of thread and fabric being sold as silk, submitted by the Federal Trade Commission, were found to be composed entirely of cotton, or cotton and artificial silk.

CONSTRUCTION OF GREATEST HOTEL ORDER.

To go out and order the greatest hotel in the world quite as one would order a suit of clothes sounds like the dream of a rarebit fiend or the imaginary adventures of a modern Aladdin.

That, however, is just what happened in New York the other day when Charles H. Ingersoll, the watch manufacturer, president of the Commonwealth Hotel Construction Corporation, and his associates approved a contract with Hoggson Brothers, originators of the Hoggson Single Contract Building Methed, for the delivery of a $15,000,000 hostelry.

The hotel is planned to be erected in the Times Square district of New York; the $15,000,000 is to cover the cost of the site, the building and its equipment. The building is designed to occupy an entire block and is to be 28 stories high. It is planned to contain 2,500 rooms or more—nearly twice as many as the largest hotel now existing.

The Commonwealth Hotel Construction Corporation is a co-operative concern, which plans to have about 150,000 shareholders, each of whom—except the directors—will own a single share. The directors, in accordance with the laws under which the company is incorporated, will own three shares each.

It was desired to know in advance that the hotel building would not cost more than the sum which the corporation or association desires to spend. Hence the single contract, which covers the services of architects, engineers, builders and decorators, in addition to building materials and the furnishings, which are to be installed upon the completion of the hotel. The contract in brief, hinds Hoggson Brothers for a stated sum, to take a building site and within a stipulated sum to deliver a fully-equipped hotel, ready at the touch of a button to receive guests and give full service.

RANGERS CARRY TWO-AND-A-HALF POUND TELEPHONE.

From the Forest Service, U. S. Department of Agriculture.

WASHINGTON D. C.—A portable telephone, made of aluminum and weighing 2½ pounds, the invention of a Forest officer, R. B. Adams of Missoula, Mont., will be part of the regular equipment of patrolmen on the National Forest the coming field season. This instrument is regarded as a great improvement over the set formerly used, which weighed ten pounds.

It is said that a field man equipped with this telephone, a few yards of light emergency wire, and short piece of heavy wire to make the ground connection can cut in anywhere along the more than 20,000 miles of Forest Service telephone lines and get in touch with the headquarters of a supervisor or district ranger. To talk, one end of the emergency wire is thrown over the telephone line, the two ends are connected with the portable instrument, and the instrument is connected to the ground wire, the end of which must be thrust into the damp earth or in water. Contact with the line wire is made possible by removel of the insulation from a few inches of the emergency wire.

The Adams instrument does not ring the bell of the receiving telephone, but instead causes a screeching sound from a small megaphone-shaped apparatus descriptively known as a "howler." This instrument is installed at the ranger station telephone and is said to give effective notice that some one is on the wire. If the field man needs to talk with some one elsewhere on the line, the ranger station instrument can be used to ring up the person wanted, when the conversation can be carried on.

Forest officers say that these portable phones are especially valuable in reporting fires and other emergencies with the least possible delay, and also in sending instructions to field men and keeping the district rangers informed as to the progress of work going on in the field, thus supplementing the regular telephone sets installed at lookout points, ranger stations, and at convenient intervals along the Forest Service roads and trails.

FOREIGN TRADE UNDER THE NEW TARIFF.

Secretary Redfield has transmitted to the Senate a detailed statement of the results of the Underwood-Simmons tariff act as reflected in the foreign trade of the country up to the time the war started in Europe. The statement was prepared in the Bureau of Foreign and Domestic Commerce in response to a Senate Resolution of January 17, 1916, calling upon the Secretary of Commerce for information in regard to trade under the present tariff.

The report calls particular attention to the import trade for the fiscal year 1914, as that year covers 12 of the 13 months immediately preceding the outbreak of hostilities in Europe and is the period held to indicate most accurately the effect the new tariff has had upon American imports. According to statistics given in the report the increase in imports for 1914 amounted to $81,000,000, or 4.5 per cent, as compared with 1913. This increase, the report states, is only $20,000,000 in excess of the average annual increase in imports for the 17 years from 1899 to 1915, and is less than the average increase during the last few years of that 17-year period. There was an increase in 12 of the 17 years, varying from $245,000,000 in 1910 to $80,000,000 in 1902.

Free goods, not dutiable goods, are responsible for the increased imports for the fiscal year 1914, the report states. Articles subject to duty, if considered as a single class, decreased perceptibly. Imports free of duty increased from $988,000,000 to $1,128,000,000, while the imports of dutiable goods fell off from $825,000,000 to $766,000,000. The increase in the total free imports was due largely to the transfer of many important articles from the dutiable list to the free list by the tariff act of 1913. Among the articles so transferred are iron ore, pig iron, Bessemer ingots, steel rails, baling and fencing wire, cotton ties, wool, flax, hemp burlap, cotton bagging, lumber, chemicals, wood pulp, leather, boots and shoes, agricultural implements, food animals, corn, meat, milk, cream, and, when imported from countries that admit free of duty similar products from the United States, wheat, wheat flour, and potatoes.

The close correspondence between the estimated customs receipts and the actual receipts under the Underwood-Simmons taric ns remarkable, the report shows. It was estimated that the bill as it passed the House of Representatives would produce during its first full year of operation $258,000,000; as it passed the Senate, $248,000,000; and as finally enacted, $249,000,000, or $20,750,000 a month. Since the new rates on sugar and molasses became effective March 1, 1914, the law was in full operation only five months before the outbreak of the war. During the quarter from April 1 to June 30 the duties amounted to $63,000,000, or $21,200,000 a month. The receipts, therefore, exceeded the expected returns by $450,000 a month, or at the rate of $5,000,000 a year.

In comparing the import and export trade of the country, the report says:

"We import more than we export of crude foodstuffs and meat animals and of miscellaneous articles, while we export more than we import of the remaining groups—crude materials for use in manufacturing, foodstuffs partly or wholly manufactured, manufactures for further use in manufacturing, and manufactures ready for consumption. It is of interest to note the chief article of import and of export falling within each of these groups. Of crude materials for use in manufacturing, hides are most largely imported and cotton most largely exported. Of foodstuffs in crude condition, including food animals, coffee represents the largest

import and wheat the largest export. Of partly or wholly manufactured foodstuffs, sugar leads in the importation and wheat flour in the exportation. Wood pulp stands first among the imports and copper in pigs and bars first among the exports of manufactures for further use in manufacturing. Of manufactures ready for consumption, manufactures of vegetable fibers other than cotton stand first among the imports and machinery first among the exports. In the miscellaneous group, clover seed is the chief import and horses the chief export. This comparison is based on the fiscal year 1914. The obvious lesson to be drawn from this comparison is the diversity of our import and export trade. Our imports consist largely of articles which for natural reasons can not be produced here or for economic or geographic reasons can be produced more cheaply abroad. The exports from this country represent the articles which, by reason of our agricultural or mineral wealth, or by reason of our industrial organization, we can produce better or more cheaply than the producer in other countries."

The effect of the tariff on wages is one of the much-debated points on which the report touches. It is shown that there is a large number of industries in which, under the present tariff, the average duty collected on imports is greater than the average expenditure for wages by domestic manufacturers. This group includes such diverse lines as flour, sugar, butter, and condensed milk, soap, candles, and glue, hosiery, corsets, and buttons. Even in the case of pottery, where wages constitute nearly 40 per cent of the entire value of the output, the average ad valorem duty on competing products is still higher.

Another group consists of industhies in which the payment for wages constitute a larger share of the product than does the import duty in the case of imported goods. This group covers some of our most successful industries. Rubber goods, steel works and rolling mills, carriage factories, bicycles, motor cycles, locomotives, clocks and watches and firearms and ammunition are among the industries in which the domestic producer has to pay proportionately more for wages than his foreign competitor pays in the shape of import duties.

The development of the export and import trade of the country as compared to that of England, Germany, and France is touched upon in the report. The total import trade of Germany and England increased more in actual amount during the decade from 1902 to 1912 than the import trade of the United States or France. Measured in value the exports of manufactured articles both from England and Germany increased more rapidly in the decade 1902-1812 than the manufactured exports from the United States, but in percentage of increase the United States ranked far ahead of any of its competitors. Its gain in manufactured exports was 141 per cent, while Germany's gain was 95 per cent, England's 70 per cent, and France's 65 per cent. This rapid progress of the United States as a manufacturer for the world's markets is a striking feature, says the report, and one that is too frequently ignored. The rapid rise of Germany as an exporter of manufactured goods is constantly being emphasized, while the relatively greater progress of the Untied States is overlooked.

The report is printed as Senate Document No. 366. It contains information regarding the value of imports, exports, and import duties under the present and the two preceding tariff acts; the value of imports, compared with the value of domestic production, and the expenditure of wages in each industry before the outbreak of the European war; and the imports and exports of leading manufacturing countries during recent years.

A Progressive Firm.

The attention of our readers is called to one of our local growing manufacturing enterprises who have for about a year and a half been building the Twentieth Century Contractors' Machinery at Seventh and Harrison streets. Mr. Norris K. Davis, the proprietor and General Manager, is a very well known man in the community, and incidently, a good man to know. Mr. Davis has perfected the Twentieth Century Concrete Mixers and pavers which machines have the particular distinction of being the only mixers without gears to revolve the mixing drum, or operate the side loaders.

The Barber Asphalt Company have just appointed the concern to be their California representatives for the sale of their entire line of Iroquois Machinery. This line includes the well known Iroquois Steam Rollers, Portable Asphalt Plants, Tools and Equipment. Mr. Davis has just had an addition built on to his modern shop for the purpose of housing a complete stock of Iroquois Machinery and spare parts, as well as his Twentieth Century Contractors Machinery. Our readers will do well to call upon Mr. Davis when in the market for new equipment. Mr. Mason, the Sales Manager for Mr. Davis, has many subtle and persuasive arguments, as well as some very attractive prices to offer prospective customers. One good argument he has which we feel should receive special attention is the Service Mr. Davis can offer to customers which they can only get when buying Twentieth Century Equipment direct from the manufacturer.

SAN FRANCISCO BOARD OF WORKS WANTS BIDS.

The San Francisco Board of Public Works has approved plans and specifications for the construction of Engine House No. 8 and bids have been ordered received. Separate bids will be taken on the general construction, heating, electric work and lighting fixtures. Bids will close on May 3rd. Plans were prepared by Architect John Reid Jr., 1st National Bank Bldg.

The Board has requested the Supervisors to adopt an ordinance authorizing the construction of Engine House No. 17. Plans for this work having been prepared by Architects Ward & Blohme, Alaska Commercial Bldg.

The Thompson Bridge Company of this city has been awarded the contract to make certain alterations to the south leaf of the Third street bridge, they being the only bidders at $2,187.

AUSTRALIAN BUYER IN UNITED STATES.

A representative of an Australian firm interested in all kinds of building materials, hardware, groceries, etc., is now in the United States and desires to get in touch with producers of these classes of goods. The name of the Australian firm and the name and address of the representative can be secured from the Bureau of Foreign & Domestic Commerce, Customhouse, San Francisco, Cal. **Refer to file No. 74491.**

TWO-CENT MAIL FOR FOREIGN COUNTRIES.

Following is a list of countries to which the United States 2-cent letter rate applies: Hawaii, Porto Rico, Philippine Islands, Guam, American Samoa, Canal Zone, Canada, Cuba, Mexico, Republic of Panama, United Kingdom of Great Britain and Ireland, Bahamas, Barbados, British Guiana, British Honduras, Dutch West Indies, Leeward Islands, Newfoundland, and the city of Shanghai, China. To all other destinations the rate is 5 cents for the first ounce or fraction of an ounce, and 3 cents for each additional ounce or fraction thereof.

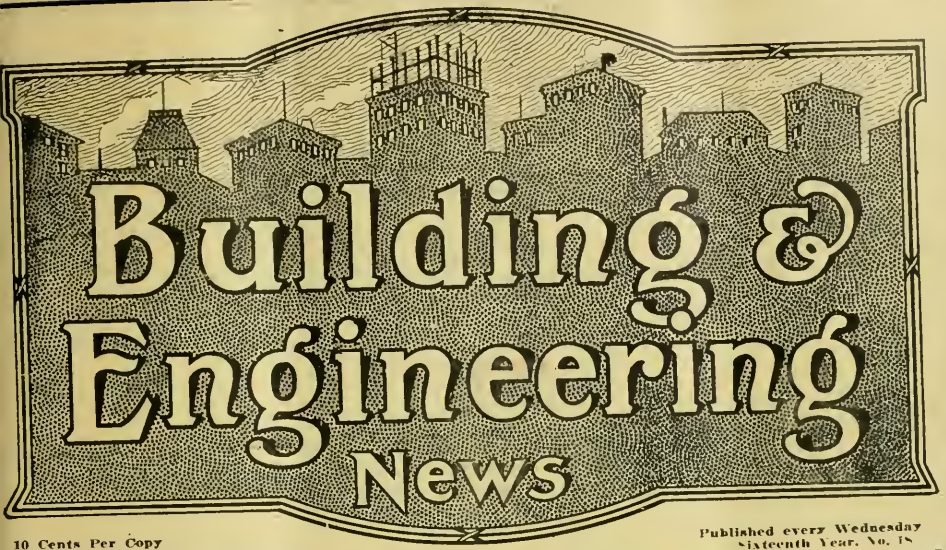
SEEK SHIPYARD SITE.

SEATTLE— Representatives of a company to be headed by Harry P. Spear, a Philadelphia naval architect and financially backed by Judge A. L. Flewelling, vice president of the Milwaukee Land Co., a subsidiary corporation of the Chicago, Milwaukee and St. Paul Railroad, and former U. S. Senator Turner of Spokane, are seeking a site on the Seattle water front for a shipyard to turn out wooden schooners powered by semi-Diesel engines and having a capacity of 1,500,000 feet of lumber. Judge Flewelling is authority for the announcement. He says it is planned at the start to lay the keels of two of these vessels as soon as the site is definitely located and the necessary machinery installed.

RECORD CARGOES LEAVING PACIFIC COAST PORTS.

With a cargo valued at $7,000,000 consigned to Russia, the American-Hawaiian liner **Honolulan,** under charter to the H. F. Ostrander Shipping Agency, left Tacoma, Wash., the latter part of March for Vladivostok. This shop is carrying what is said to be the most valuable cargo ever hooked on the Pacific coast, and the entire cargo, except 23 automobiles that were loaded at Seattle, is credited to Tacoma, thus going far toward keeping that port's record for February of $13,000,000 in exports up to par.

The next steamer due at Tacoma for Vladivostok cargo will be the **Kosuko Maru,** also under charter to the same shipping agency as the **Honolulan.** The Seattle representative of the above company, Mr. A. R. Hawley, sailed in March for the Orient. He will report on business conditions generally in the Orient.



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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560 Mission Street.
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The building ordinances that have been passed in the various cities and the tenement house acts of the various states during the last ten years have increased the safeguards of human life in requiring safer building construction. Safety devices and employers' liability laws has lessened the accidents incident to the industry by many fold. And in the requirements of safer construction the various laws and ordinances have reduced the fire risks and the consequent loss of property and life by this ever present and greatest of all dangers.

This city has had the supreme test of fire. The great conflagration of 1906 proved that only the most thoroughly resistant material will stand the test of a great fire and that when a large building burns everything that is combustible in the vicinity goes up in smoke. It is therefore necessary that in congested centers of population and in any commercial city that there be thoroughly fireproof construction; for most of the articles of merchandise and office fixtures and contents of buildings are inflammable, and once a fire is started in a large building only thoroughly fireproof construction can stop it.

In consequence of the almost complete destruction of this city ten years ago the fire limits were wisely extended by the authorities when the city was rebuilt. The specifications of the building ordinance also in requiring fireproof construction made it practically impossible for such a fire ever to occur again. It was a wise provision as is apparent to any one, and is an economical one in the end. For insurance rates are lowered, the cost of repairs and upkeep is lessened, and the added security to life and property more than pays for any added cost of construction. For a thing is never done until it is done right and if a building is not constructed properly it will not be long until it becomes known, it will fail perhaps just at the time when it has to be depended upon and the folly and the sins of the fathers will be visited upon the sons of the third and fourth generations.

The present ordinance recently passed by the Board of Supervisors of the City and County of San Francisco permitting the use of plasterboard or buttonlath in fireproof construction and in schools is a distinct step backward. Whatever its structural merits may be no complete public fire test of the material has ever been made. It is no doubt, a good material to be used in proper construction, but what that construction is should be thoroughly and completely determined by competent men in complete tests and the results made public. Its structural substance is composed of wood and paper pulp and if it has been treated so that it is not combustible under the heat of a burning building it should be thoroughly demonstrated. This is something in which not only the builders and the building organizations have an interest but the general public as well have an interest. For if any material is to be used in schools and in fireproof construction it should be fireproof and it should be thoroughly and publicly demonstrated.

SOUTHERN PACIFIC COMPANY ESTABLISHES TELEGRAPH STATION.

Ambitious operators and station men anxious to improve themselves for promotion to the position of agent in the service of the Southern Pacific have an new opportunity to do so.

E. L. King, superintendent of telegraph, has established a "Station School" at San Francisca for which all station operators may qualify as students. The course, which will last from three to four months, according to the individual's ability, takes up all phases of station work, with particular reference to dealings with the public. J. J. Miller, formerly agent at Red Bluff, is instructor.

The school is not to teach telegraphy, but operators will be instructed in those features of it which apply to railroad work.

The class numbers twenty and as students are graduated others will become eligible for their places. Those who are interested may apply for further details to Superintendent King at San Francisco.

Half of each day is spent in the class room. The balance of the time is devoted to actual station work under W. J. Hardy, freight agent at San Francisco. Students are paid a salary while in attendance. Every feature of the station agent's duties is taken up in detail. Handling and filing tariffs, freight rates and passenger fares, meeting the public, handling shipments, are among the subjects regularly covered. Representatives from various departments of the general office and from the divisions from time to time will also make talks on special but pertinent subjects.

The Company believes that this school will offer ambitious young men in the service a chanee to perfect themselves. For the public, it is expected that there will be developed a degree of efficiency and courtesy even higher than at present. The underlying principle of the school is in line with the Company's policy to make its promotions from men in the service rather than "import" them from the outside.

F. W. Huller and H. B. Breckenfeld of the Efficiency Committee will be connected with the school in advisory capacities.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $35,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Rulfs. Location, west Leavenworth north of Sutter, covering an area of 37½ by 80 feet. Will contain sixteen apartments of two and three rooms with wall beds and private baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick and cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $10,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Hyde street, covering an area of 25 by 74 feet. Will contain six apartments of two rooms and bath. Interior finish gum and white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Marble and tile wainscot in vestibule. Exterior covered with cement plaster and shingles. Some veneer brick. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house and store, 3 story and base, frame, $16,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Lockman. Location, Sutter near Fillmore, covering an area of 27½ by 136½ feet. Will contain one store on the ground floor and eight apartments of two, three and four rooms on the upper floors. Interior finish pine and elm panels. Hardwood floors. Hot water system and gas steam radiators. Patent store fronts and marble bases. Wall beds. Bath rooms finished in tile. Exterior covered with cement plaster. Plans completeand figures under advisement.

SAN FRANCISCO—Apartment house alterations, 3 story, frame, $2,500. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, J. H. Clancy. Location, 23rd and Eureka. Work will consist of altering the present dwelling into four apartments of four rooms each. New interior finish, plastering, plumbing and electric work will be required. Exterior will be covered with rustic and cement plaster. Plans are complete and work will be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $7,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, J. Zolezzi. Location, west Powell north of Filbert. Will contain five apartments of three rooms each with bath. Interior finish pine Some hardwood floors. Wall beds. Elm panels. Hot water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architect, Paul F. De Martini, 2123 Powell street S. F. Owner, D. Vatuone. Location, north Washington near Mason. Will contain six suites of three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile and composition. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $20,000. Architect, none. Owner, George Smith, 636 Scenic avenue, Piedmont avenue, Oakland. Location, East 22nd street west of Telegraph. Will contain a total of 39 apartments of two, three and four rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, oil burning furnace, hot water supply and wall beds. Bath rooms tile with composition floors. Marble and tile wainscot in the vestibule. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken by the owner.

STOCKTON, SAN JOAQUIN CO., CAL.—Apartment house and store, 3 story and base, $20,000. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, T. F. Walsh. Location, southwest corner of Weber avenue and Aurora street. Will contain stores on the first floor besides the entrance. Upper floor arranged for two, three and four room apartments. Interior finish pine and white enamel. Hardwood floors. Patent store fronts and marble bases. Gas steam radiators and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

SEATTLE, WASH—Apartment house, 3 story and base, brick, $30,000. Architect, none. Owner, J. H. Baehr, 1809 Nob Hill avenue, Seattle. Location, 1216 1st avenue. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior will be finished in pine and hardwood veneer. Hardwood floors. Steam heat, hot water system and oil burning furnace. Bath rooms tile. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

PASADENA, LOS ANGELES CO., CAL.—Apartment house, 3 story and base, brick. Cost not stated. Architect, A. C. Parlee, Chamber of Commerce Bldg., Pasadena. Owner's name withheld. Will cover an area of 60 by 153 feet, and will contain 30 suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and automatic elevator. Hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

SEATTLE, WASH—Apartment house, 5 story and base, mill construction, $65,000. Architect, none. Owners, Logan Commercial Co., 814 American Bank Bldg., Seattle. Contractors, The Rainier Construction and Engineering Co., 151 Stuart Bldg., Seattle. Contract price $65,000. Note: Contractors are now taking subfigures.

OAKLAND, CAL.—Apartment house 4 story and base, frame, $5,000. Architects, Richardson & Burrell, Alban Bldg., Oakland. Owner, Mr. Kohan Contractor, Mr. Robson, 1519 Chestnut street, Oakland. Contract price, $5,000

BONDS

RICHVALE, BUTTE CO., CAL.—The Trustees of Drainage District 100, comprising land in the Richvale section and taking in 17,000 acres of rice land have called an election for May 20th to vote on the question of issuing bonds of $150,000 for improvements. It is planned to drain the district by the construction of 79 miles of ditches with an outlet into Butte Creek.

PLACERVILLE, EL DORADO CO. CAL.—The City Trustees have instructed San Francisco attorneys to immediately draw up the proper resolutions calling a bond election for $30,000 for the paving of Placerville's main street for a distance of two miles along the route of the State highway. The paving will be sixteen feet wide.

The School Trustees have decided to submit a proposal for a bond issue of $35,000 on the same date as the city election, for the erection of new school buildings.

INWOOD, SHASTA CO., CAL.—At a meeting here residents of Southern Shasta County declared in favor of bonding their section of the county for $150,000 for buildings and improving roads. Committees were named to take the matter up with the Chamber of Commerce of Anderson and the Board of Trade of Cottonwood.

OAKLAND, CAL.—A school bond issue will be called shortly to build new schools and repair the present ones. A number of additions to the present buildings are also planned.

OLYMPIA, WASH.—It has been decided that the Capitol Building bond issue in the sum of $1,500,000 for the construction of the State buildings here will have to go to the voters of the State for ratification and this issue will probably be on the ballot at the next election.

CAMPBELL, SANTA CLARA CO., CAL.—Preparations are being made to call a school bond election for May 20th, asking for $20,000 bonds for new school building (addition to the present high school.)

SAN JOSE, SANTA CLARA CO., CAL.—The election held last week to vote bonds of $100,000 for new grammar schools and grounds and $50,000 for additions to the present structures, carried by a vote of nearly 5 to 1.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—Election to vote bonds for eight different projects will probably held in a few months. The following propositions and estimatee have been practically agreed upon for submission to voters.

1. $100,000 for city hall site.
2. $75,000 for auditorium in Lugo Park.
3. $18,000 for Arrowhead avenue bridge work, including $11,000 for bridge, $2,000 for levee work and $2,000 for grading Arrowhead avenue.
4. $35,000 for Third street bridge work, including $13,000 for bridge, $9,000 for levees and $3,000 for removing old bridge and excavating for new.
5. $35,000 for Mt. Vernon Ave. bridge.
6. $3,000 for storm protection work at Base Line and G street.
7. $8,000 for storm protection work at Devil Canyon.
8. $30,000 for fire fighting facilities, including $2,000 for sites, $10,000 for two fire stations, $9,000 for two auto fire trucks, $2,000 for chief's auto, $5,000 for 20 fire alarm boxes, etc., and $1,000 for hose.

VISALIA, TULARE CO., CAL.—Petitions were put in circulation last week asking the Board of Supervisors to name a highway commission as a step toward a bond issue for constructing roads in Tulare County.

WATTS, LOS ANGELES CO., CAL.—The sewer bonds in the amount of $125,000 were defeated at the special election.

PLACENTIA, ORANGE CO., CAL.—Bonds in the amount of $30,000 have been voted for a new six-room grade school for this district. Architect Frederick H. Eley, Santa Ana, has been commissioned to prepare the plans for the building, which will be of reinforced concrete construction, metal tile roof, pine trim, maple floors, steam heating.

BRIDGES, DAMS AND HARBOR WORK

SAN FRANCISCO — Bridge repairs, $70,000. Engineer's name not given. Owners, Northern Electric Railroad Co., Hobart Bldg., S. F. The receiver of the Northern Electric Railroad has been granted permission to expend $70,000 for repairs to two of the company's bridges. Repairs to the bridge over the American River will cost $35,000 and a like amount will be spent on repairs to the bridge over the Feather River.

SACRAMENTO, CAL.—Weir construction, steel and concrete, $160,000. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Bids have been ordered received by the City Commission for the construction of the proposed Sacramento weir. Bids close May 23rd. The weir is the spillway to be constructed along the west bank of the Sacramento River near Bryte's Bend. It will afford an outlet for the Sacramento River when the water reaches a danger point into the Sacramento By-pass which connects with the Yolo By-pass. The weir will be 2,185 feet long, and the estimated cost is $460,000, according to City Engineer Miller. The city has now $291,000 on hand and the State owes $275,000 which is to be repaid when the money the city has is all expended. The first unit which will be built with the money the city has in the treasury will consist of the weir proper and the railroad bridge. Plans may be had from the City Clerk.

RIVERSIDE, RIVERSIDE CO., CAL.—Bridges, steel and concrete. Cost not stated. Engineer, County Surveyor, Riverside. Owners, Riverside County. At the last meeting of the County Supervisors the County Surveyor was instructed to prepare plans and specifications for the bridge connecting Pedley and Arlington, for the Barnett bridge at Temecula and the Pauba bridge. The two remaining spans of the West Riverside bridge will be removed and incorporated into the Pauba bridge. Bids will be called for shortly on this work.

VENTURA, VENTURA CO., CAL.—Bridge repairs, steel and concrete. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Surveyor has been instructed to prepare plans and specifications for the rebuilding of the south approach to the Saticoy bridge which was washed out by last winter's storms.

Contracts Awarded

SAN FRANCISCO—Wharf construction, reinforced concrete, $12,500. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractors, Grace & Bernieri, Spreckels Bldg., S. F. Contract price, $12,500.

SAN FRANCISCO — Bridge repair steel, $2,487. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Thomson Bridge Co., S. F. Contract price, $2,487.

SACRAMENTO, CAL.—Bridge, steel and reinforced concrete, $100,425. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Mercer-Fraser Co., Eureka. Contract covers construction of the highway bridge over the Eel River. Contract price, $100,425.

COUNTY TRACT DEVELOPMENT.

BRENTWOOD, CONTRA COSTA CO., CAL.—Tact development, brick and frame, $200,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Security Realty Co., Monadnock Bldg., S. F. The owners are developing a large tract of agriculture land which will be subdivided into small farms and town lots. A large number of dwellings will be erected. Plans also provide for an administration building, implement barns, garage, water system and irrigation plant. Plans for the ranch buildings will be prepared later.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Dyeing and cleaning plant, 2 story and base, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. Alec Cleaning Works. Location, 2161 Folsom street, covering an area of 150 by 200 feet. Will contain office and factory. Interior finish pine with cement floors. Metal window sash and frames, elevator service, steam heat, boiler equipment, special tanks and machinery. Exterior faced with cement plaster. Plans complete and figures being taken. The work is segregated into the following departments. Reinforcing steel, concrete and brick work; carpentry and mill work; lath and plastering; electric work; painting; roofing; metal window sash and frames, glass and glazing, elevator work.

OAKLAND, CAL.—Warehouse, 6 story and base, reinforced concrete, $70,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Lyon Storage Co. Location, Broadway and Piedmont avenue, covering an area of 100 by 100 feet. Construction fireproof. General storage space and private vaults. Freight elevator and automatic sprinklers. Metal window sash and frames. Exterior faced with cement plaster. Contract awarded to F. A. Muller, Syndicate Bldg. Plans being revised.

OAKLAND, CAL. — Mill, 2 story, frame, $2,000. Architect, none. Owner, W. R. Sibbett Co., 550 Poplar street, Oakland. Location, east Poplar south of 7th. Designed for a waste mill. No interior finish. Special machinery. Exterior shiplap. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Bakery building, 2 story and base, brick. Cost not stated. Architect, Frank M. Tyler, Black Bldg., L. A. Owners, Davis Standard Bread Co. Location Beaudry and Mignonette streets, covering an area of 150 by 150 feet. Will contain bakery, shipping department and offices. Interior finish pine. Considerable tile. Special machinery. Exterior faced with pressed brick. Plans complete and figures being taken by the owners.

OAKLAND, CAL.—Shop building, 1 story, steel and corrugated iron, $4,530. Architect, none. Owner, Howard Co. Location, southwest First and Market. Cement floor. No interior finish. Exterior covered with corrugated iron. Steel frame. Plans complete and work to be done by Day Labor.

Contracts Awarded

NORTH YAKIMA, WASH. — Warehouse, 1 story and base, hollow tile, $5,000. Architect, W. W. de Veaux, North Yakima. Owners, Growers Service Co. Contractor, J. H. Corbett, North Yakima. Contract price, $5,000.

FIRE HOUSES AND JAILS

REDWOOD CITY, SAN MATEO CO., CAL.—Jail, 2 story and base, brick, concrete and steel, $60,000. Architect, W. H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Bids will be opened on June 5th for the construction of the new jail building. Construction will be fireproof. There will be an office for the sheriff, separate wards for males and females and guard room. Interior finish pine and cement plaster. Steam heat, hot water system, vacuum cleaning and oil burning equipment. Special jail equipment to be let in separate contract. Exterior faced with cement plaster. Plans can be secured from the architect. An official proposal appears in another column of this issue.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame. Cost not stated. Architect, none. Owner, Mr. Klimhaupt, 1750 Hyde street, S. F. Location, 4th avenue between Geary and Clement. Will contain four flats of four rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Flats, 2 story and base, frame, $6,000. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, C. J. Ryland, chief draftsman with Ralph P. Morrell. Location, southwest corner of Grant and Jefferson. Will contain four modern flats of four and five rooms. Interior finish pine and white enamel. Some hardwood floors. Gas steam radiators. Bath rooms tile. Automatic water heaters. Six wall beds. Exterior covered with rustic and brick veneer. Plans being prepared.

GARAGES.

Contracts Awarded

NORTH YAKIMA, WASH.—Garage, 1 story and base, concrete block, $2,300. Architect, W. W. de Veaux, North Yakima. Owner, Yakima County. Contractor, A. Stedman. Contract price, $2,300.

PORTLAND, ORE.—Garage, 2 story and base, brick, $20,000. Architect, C. A. Duke, Failing Bldg., Portland. Owners, Chanzlon & Lyon. Contractors, Luck & Dangerfield, 281 Broadway, Portland. Contract price, $20,000.

LOS ANGELES, CAL.—Garage, 5 story and base, reinforced concrete. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, M. H. Newmark, leased to J. W. Leavitt. Contractors, Leonardt & Peck, H. W. Hellman Bldg., L. A. Contract price not stated.

GOVERNMENT WORK & SUPPLIES

Bids Must Be Within 25 Per Cent of Estimated Cost.

The river and harbor bill as it passed the House last week contained a remarkable clause prohibiting the award of contract by Army engineers in any case where "the contract price is more than 25 per cent in excess of the estimated cost of doing the work by government plant." The restriction was incorporated in the bill in the face of the objections expressed by the chief of engineers and despite the protest of the chairman of the committee on rivers and harbors. In vain did General Black point out the difficulties of arriving at any equitable determination of such a basis upon which it was possible to exclude contracts; that the arrangement would be manifestly unjust to the contractors and detrimental to governmental interests; that many items of cost had to be considered by bidders that were not applicable to the operation of a government plant; that the expense of maintaining a government plant would be excessive; that in one particular case (the completion of the inland waterway from Norfolk to Beaufort) it would take the present government facilities fifteen years to complete the improvements, whereas it could be done by contract in four years or less; that the provission of a government plant sufficient to do the river and harbor work would involve a very large initial expenditure, the organization of a large special force of employees, and the maintenance of overhead charges whether the plant were idle or at work. General Black suggested in lieu of the adopted amendment a clause which would permit the chief of engineers to investigate the situation and report at the next session of Congress the amount and cost of the plant required for carrying on all river and harbor improvements by government plant at the rate at which the plant proposed would enable the work to be done. The pertinent and practical arguments submitted by General Black were of no avail. The House was determined to impose a restriction which has been pronounced impossible to observe without injury to business interests and without equal damage to the interests of the government.

The Dalles, Ore., Furniture.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for installing furniture in the U. S. public building at The Dalles, Ore.:

Jacob Beitzel & Sons, York, Pa., $2,095.

The Federal Equipment Co., Carlisle, Pa., $2,568.

Richmond School Furniture Co., Muncie, Ind, $2,553.50.

McGuire Cabinet Co., Los Angeles, Cal., $1,859.95.

John E. Sjostrom Co., Philadelphia, Pa., $2,800.

Louck & Hill Co., Richmond, Ind., $2,593.

Budde & Weis Mfg. Co., Jackson, Tenn., $2,985

Medford, Ore., Desks.

The contract for installing two desks in the court room of the U. S. post office and court house at Medford, Ore., has been awarded to Pacific Furniture & Fixture Factory, Medford, Ore., at $176; time 60 days.

The Dalles, Ore., Furniture.

The contract for installing furniture in the U. S. post office at The Dalles, Ore., has been awarded to McGuire Cabinet Co., Los Angeles, Cal., at $1,859.95.

Idaho Falls, Idaho, Shelving.

The contract for installing vault shelving in the U. S. post office at Idaho Falls, Idaho, has been awarded to the H. H. Shultz Co., Gowanda, N. Y., at $293.

Milk River Project, Earthwork.

The Secretary of the Interior has awarded the contract for earthwork on the Bowdoin Canal and laterals on the Milk River project, Mont., to L. W. Dotson, Glasgow, Mont., at $9,105.95.

Los Angeles Harbor, Dredging.

In accordance with an advertisement appearing elsewhere in this issue, bids are to be opened May 10 by the U. S. engineer at Los Angeles, Cal., for dredging, the work to be done involves redredging to a depth of 20 feet and a width of 200 feet about 4,500 feet of the East Basin channel. The estimated quantity of material, exclusive of allowable overdepth, is 515,000 cu. yds.

Drag Line Excavator.

The following bids were received by the U. S. Reclamation Service, Denver, Colo., for furnishing 1 drag line excavator:

Monighan Machine Co., Chicago, Ill., $6,875.

Pawling & Harnischfeger, Milwaukee, Wis., $7,000.

Marion Steam Shovel Co., Marion, Ohio, $9,350; alternate, $7,700.

Bucyrus Co., South Milwaukee, Wis., $9,460.

F. C. Austin Drainage Excavator Co., Chicago, Ill., $9,800.

Honolulu, H. T., Repairs, Etc.

The contract for repairs and painting in the U. S. custom house at Honolulu, H. T., has been awarded to J. I. Whittle at $600.

Average Result of Two Tests Forms Basis of Payment.

When for any reason two samples of coal are tested from one delivery, payment should be made on the average of both tests and not on one or the other of the tests:

Treasury Department,

Washington, April 1, 1916.

Capt. John S. Johnston, Acting Q. M., U. S. Army, Fort Worden, Wash.

Sir: I have your letter dated March 23, requesting decision as to whether you are authorized to pay a voucher therewith submitted for $305.30 in favor of the Wellington Coal Company. Your doubt as to the propriety of paying the voucher in question grows out of the following circumstances:

By contract dated June 3, 1914, the Wellington Coal Company undertook to furnish and deliver, among other places, at Fort Flagler, Wash., such coal as might be required and ordered during the period beginning July 1, 1914, and ending June 30, 1915, at a price of $8.05 per ton, this price, however, being subject to increase or reduction according as tests of samples taken from each lot of coal delivered should indicate it as being above or below the specified standards in B. t. u.'s ash content, etc. The contract provided for the taking of samples from each lot of coal as delivered, in a specific manner, and for the sending of a part hereof to the Bureau of Mines for testing, the remaining part of such samples to be retained at the post pending the outcome of the first test.

In compliance with proper order the Wellington Coal Company delivered a lot of coal at Fort Flagler during January, 1915, amounting to 975,570 pounds. A sample of this coal was taken in the prescribed manner and the whole sample forwarded to the Bureau of Mines. Analysis of this sample as reported to the Bureau of Mines, February 10, 1915, showed the lot to be greatly deficient in B. t. u.'s, and also in other respects, the total deduction in price occasioned by the several deficiencies amounting to the sum of $2.402 per ton. The contractor was paid on the basis of the analysis so made, a total of $3,113.11 for the lot of coal and he accepted such payment under protest.

The contractor strongly claiming that the analysis made of the sample as shown did not give a fair indication of the real value of the coal in question, and the coal still being unused and available, a second sample was taken, same being taken from various parts of the mass of coal, and forwarded to the Bureau of Mines. This sample on test showed the deficiencies to be much less than those indicated by the test of the first sample, the deduction on account of the deficiencies in this case being but a fraction more than 20c per ton.

By the voucher now submitted, it is proposed to adjust payment on a basis of the test of the second sample and pay the contractor the difference be-

tween the value of the coal as indicated by the first and second analysis. The contractor appears to claim $362.20 as the difference in value in question, but by the voucher submitted it is proposed to pay $305.30, which I assume is correctly calculated on the results shown by the two tests.

In a somewhat similar case submitted to this office by Major Samuel Hof, it was held in a decision of April 21, 1915 (63 MS. Comp. Dec. 310), that where a test of one sample was contested as being manifestly unfair in point of actual results and another sample taken under like conditions was later tested, the results of the two tests might be combined and the average result accepted as showing the approximate true quality of the coal involved. In the present case the first sample was taken in strict accordance with the contract requirements, that is (at time of delivery.) The other sample was taken in the same manner, except as to time of delivery, it being taken some time later. In any case, the end to be achieved by means of tests and samples is to arrive at the approximate heating and other values of the coal involved, and I think it is true here, as it was held there, that the results obtained from a test of the two samples is a fairer indication of the real value of the coal than the result obtained from the test of a single sample.

In this case you will therefore be authorized to average the results of the two tests and so pay the Wellington Coal Company on that basis.

Payment of the voucher as submitted, however, is not authorized.

(Signed) W. W. WARWICK,
Comptroller.

HALLS AND SOCIETY BUILDINGS.

MONTPELIER, IDAHO—City hall, 2 story and base, concrete block, $60,000. Architects, Boyer & Rogers, Pocatello, Idaho. Owners, Montpelier. Will contain the various city offices and an auditorium 33 by 57 feet. Building will cover an area of 76 by 78 feet. Interior finish pine and hardwood. Some hardwood floors. Steam heat. Exterior faced with cement plaster. Plans complete and figures being taken.

HOSPITALS

BISHOP, INYO CO., CAL.—Hospital ward, 1 story, concrete. Cost not stated. Architect's name not stated. Owners, Inyo County. The ward will be designed for contagious cases. Interior finish pine and redwood. Central heating system extended from present plant. Exterior faced with cement plaster. Plans complete and figures being taken.

LOS ANGELES, CAL. — Hospital wards, 2, 1 story, concrete and frame, $25,000. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. Plans have been completed and figures are now being taken for constructing two wings, each 27 by 119 feet, at the County Farm. Bids will be opened on May 15th. Plans can be secured from the architect or County Clerk.

Contracts Awarded

SAN FRANCISCO—Hospital, 2 story and base, reinforced concrete, $43,000. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Contractor, Val Franz, 185 Stevenson street, S. F. Contract price, $43,000.

IRRIGATION PROJECTS

BAKERSFIELD, KERN CO., CAL.—Irrigation system, $400,000. Engineer's name not given. Owners, Mojave Mutual Land and Water Co., S. F. The Mojave Mutual Land and Water Co. of San Francisco has applied to the State Water Commission for permission to appropriate all the water in Oak Creek watershed, including all the waters of Oak Creek, Mill Creek springs, and all the run-off and flood waters, not less than 70 cubic feet per second for purposes of irrigation. The application sets forth a ditch 7½ miles long, to be known as the Mojave Plain ditch. There is a proposed dam 100 feet high, 600 feet on top and 300 feet on bottom, built of concrete with a wasteway around dam. There is a proposed storage capacity of 50,000 acre feet. The land to be irrigated consists of some 61,440 acres in Kern County.

POST OFFICES

ROSEBURG, ORE—Post office, 2 story and base, brick, stone and steel. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Stebbinger Bros., Portland, presented the low figure for the construction of the new federal building and will probably be awarded the contract. The low figure is $84,045.

POWER IMPROVEMENTS

HEMET, RIVERSIDE CO., CAL.—Water system repairs and tunnel. Cost not stated. Engineer, H. Hawgood, H. W. Hellman Bldg., L. A. Owners, Lake Hemet Land and Water Co. Bent Bros. Construction Co., Central Bldg., L. A., have the contract to reconstruct pressure pipe line and to drive new tunnel in the mountains about 7 miles from Hemet for the Lake Hemet Land and Water Co. There will be 1,400 feet of 12 to 30 inch cement and reinforced concrete pipe lines, part of which will be under pressure as siphons. The tunnel will 265 feet in length through solid rock.

Contracts Awarded

CLOVERDALE, SONOMA CO., CAL.—Water pipe and valves. Cost as follows. Engineer, City Engineer, Cloverdale. Owners, City of Cloverdale. Contractor, A. W. Garrett, Healdsburg, furnishing 1900 feet of cast iron pipe. Contract price, $2,146.60. O. C. Williams, Cloverdale, laying pipe. Contract price, $1,067.

LIBRARIES.

Contracts Awarded

EAST HOLLYWOOD, LOS ANGELES CO., CAL.—Library, 1 story and base, brick, $23,304. Architect, C. H. Russell, Union League Bldg., L. A. Owners, City of Hollywood. Contractor, C. Karseboom, 1445 Dana street, L. A. Contract price, $23,304.

RESIDENCES.

SAN FRANCISCO—Residences, 23, 2 story and base, frame, $3,500 to $4,000. Architect, none. Owner, William F. Yates, 335 21st avenue, S. F. Location, 17th and 18th avenue and Cabrillo. Each of the dwellings will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white neamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic, cement plaster and shingles. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, W. J. Keenan, Masonic avenue and Fulton street, S. F. Location, east Atalaya Terrace. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $5,500. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owner, Walter G. Campbell. Location, northwest Anza and 17th avenue. Will contain eight rooms, two baths and a basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furinace heat, hot water circulating system and open fire places. Mantels tile and brick. Bath rooms tile. Exterior covered with cement plaster. Plans complete and figures in and under advisement.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, C. H. Allison, 34 Brookside street, Berkeley. Location, west Mabel south of Ward. Will contain five rooms, bath and sleeping porch. nterior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, Emelie Braun, 2547 Piedmont avenue, Berkeley. Location, northeast corner of Piedmont avenue and Parker street. Will contain eight rooms, bath and sleeping porch. nterior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, F. R. Jordan, 5917 Ayala street, Oakland. Location, south Harwood east of College. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $7,500. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, T. D. Stevenson,

Location, Claremont Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, A. W. Pattiani, Merchants' National Bank Bldg., S. F. Owner, Dominies Trombetta. Location, southeast corner 45th and Grove streets. Will contain ten rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale avenue west of 38th avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, W. G. Charles, P. O. Box 29, S. F. Location, west Curtis north of Hearst. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 30th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Al. Nickolsen, 1345 85th avenue, Oakland. Location, west 85th avenue south of East 14th street. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,000. Architect, none. Owner, F. W. Dewey, 1126 71st avenue, Oakland. Location, 2696 Havenscourt Boulevard. Will contain four rooms and bath. Interior finish redwood. Open fire place and tile mantel. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, Charles A. Werner, 2416 10th street, Oakland. Location, east Bonar south of Channing Way. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, north Francisco east of Acton. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner's name withheld. Location, Piedmont. Will contain nine rooms, three baths and sleeping porch. Interior finish eastern oak and white enamel. Hardwood floors throughout. Hot air heating system and hot water circulating system. Bath rooms finished in tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Edward Grandin, 1533 Prince street, Berkeley. Location, west Adeline south of Aileen. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. H. Coburn, Bay Farm Island Bridge, Alameda. Location, 1101 Peach street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, James McGuiness, 3615 East 17th street, Oakland. Location, south Park Boulevard west of Brighton. Will contain seven rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Emma Coburn, 2370 East 28th street, Oakland. Location, south Madeline west of Laurel. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ATHERTON, SAN MATEO CO., CAL.—Residence, 1 story and base, frame. Cost not stated. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. George S. Fife. Working drawings have been completed for a magnificent summer home to be erected at the junction of the Middlefield Road and Marsh avenue. The building will cover a ground area of 125 feet frontage by 80 feet in depth. The house will be one-story in height and built around a beautifully developed open patio, which will be 42 by 70 feet. The patio will contain a large fountain and sunken garden. All rooms, of which there will be twenty, will have access to the patio, except those in the service portion of the house. Entire interior of the home will be finished in selected woods and is designed along very simple lines. Plans provide for five bath rooms equipped with the highest grade of plumbing fixtures. Both the living room and dining room will have open fire places, 12 feet wide, built of rug brick. A hot water circulating system will be installed. Exterior of the dwelling will be covered with cement plaster. Roof will be of shingles, rolled hips and ridges. Work will be underway by May 5th.

SACRAMENTO, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Alex. Willoner, 813 J street, Sacramento, Cal. Owner, C. L. Knight. Location, North Sacramento. Will contain eight rooms, bath and sleeping porch. nterior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, Hart and Buwaldo. Location, East Fresno. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PEBBLE BEACH, SANTA CRUZ CO., CAL.—Residence, 1 and 2 story and base, frame, $10,000. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owner's name withheld. Will contain ten rooms, two baths and sleeping porches and conservatory. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile and stone. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,000. Architect, none. Owner, Thomas Cralg, 526 Haight street, S. F. Location, west 8th avenue north of Noriega. Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—sidence, 1 story and base, frame, 000. Architect, E. W. Cannon, Cen-l Bank Bldg., Oakland. Owner, ederick Apps. Will contain eight oms, three baths and sleeping porch. terior finish pine, hardwood and hite enamel. Hardwood floors. Fur-ce heat and open fire places. Man-ls tile and brick. Bath rooms tile. ot water circulating system. Exte-or covered with cement plaster. Plans mplete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—esidence, 2 story and base, frame. ost not stated. Architect, Lloyd A. ally, 1126 Colusa avenue, Berkeley. wner, W. W. Johnson. Location, aremont. Will contain twelve rooms, ree baths and sleeping porches. In-rior finish pine and hardwood with hite enamel in the bed rooms. Hard-ood floors throughout. Bath rooms nished in tile. Furnace heat and open re places. Mantels tile and brick. Hot ater circulating system. Exterior overed with cement plaster. Plans omplete and figures being taken.

OAKLAND, CAL.—Residence, 1 story nd base, frame, $2,500. Architect, none. Owner, L. G. Pfrang, 5428 Locksley venue, Oakland. Location, west Em-rald north of 41st street. Will con-ain five rooms, bath and sleeping porch. Interior finish pine and red-wood with some white enamel. Hard-wood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,500. Architect, Olin S. Grove, 161 Santa Clara avenue, Oakland. Owner, Fred Townsend. Location, east Ar-lington avenue north of Mendocino. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hard-wood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MERCED, MERCED CO., CAL.—Resi-dence, 1 story and base, frame. Cost not stated. Architects, Butler Bros., Mason Bldg., L. A. Owner, J. B. Hall. Will contain twelve rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Fur-nace heat and open fire places. Man-tels tile and brick. Bath rooms tile. Automatic water heater. Exterior cov-ered with cement plaster. Plans com-plete and work to be done by Day Labor.

NAPA, NAPA CO., CAL.—Residence, 2 story and base, frame, $10,000. Ar-chitect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner, Myrvin Hol-linger. Designed for a country home and will contain ten rooms, two baths and sleeping porch. Garage and other outbuildings to be erected. Interior finish pine, hardwood and white en-amel. Hardwood floors. Furnace heat and hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being pre-pared.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Residence, 2 story and base, frame, $12,000. Architect, George Mc-Crea, First National Bank Bldg., Oak-land. Owner, Mrs. A. H. Munsell, Bos-ton. Designed for a country home and will contain twelve rooms, three baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and equipped with showers. Exterior covered with cement plaster. Plans being prepared and figures to be called for within ten days.

Contracts Awarded.

SAN FRANCISCO — Residence, 2 story and base, frame, $11,000. Archi-tects, Falch & Knoll, Hearst Bldg., S. F. Owner, E. Brooks. Location, For-est Hill. Contractor, E. J. Angell, premises. Contract price, $11,000.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, hol-low tile. Cost not stated. Architect, Reginald D. Johnson, Staats Bldg., Pasadena. Owner, Briggs C. Keck. Con-tractors, C. M. Hansen & Son, 236 Franklin street, Pasadena. Contract price not stated.

SCHOOLS

VALLEJO, SOLANO CO., CAL. — School, 2 story and base, frame and concrete, $35,000. Architect, Smith O'Brien, Humboldt Bank Bldg., S. F. Owners, Roman Catholic Church. De-signed for a parochial school and will contain a number of class rooms, chapel and office. Interior finish pine with maple floors in the class rooms. Central heating system, probably hot air. Vacuum cleaning will be installed. Exterior faced with cement plaster. Preliminary plans only have been pre-pared.

CROCKETT, CONTRA COSTA CO., CAL.—School alteration, 3 story, frame. Cost not stated. Architect, Norman R. Coulter, 46 Kearny street, S. F. Own-ers, Crockett High School District. Work will include extensive repairs to the exterior plastering and some minor interior changes. Plans are being pre-pared.

FRESNO, FRESNO CO., CAL.—School, 1 story and base, frame, $15,000. Archi-tects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, City of Fresno. Lo-cation, Bullard Tract. Will contain two class rooms and a large audito-rium. Interior finish pine with maple floors. Central heating system. Mod-ern school plumbing. Brick foundation. Exterior covered with cement plaster on metal lath. Plans being completed and figures to be called for shortly.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick and frame. Cost not stated. Architect, Or-ville L. Clark, Brower Bldg., Bakers-field. Owners, City of Bakersfield. De-signed for a grammar school, and will contain class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Central heat-ing system. Modern school plumbing and slate blackboards. Exterior cov-ered with pressed brick and cement plaster. Plans complete and figures be-ing taken. Bids open on May 15th at 9:30 a. m. Plans can be secured from the architect.

TAFT, KERN CO., CAL. — School buildings, 1 and 2 story, concrete and frame, $60,000. Architect, Orville L. Clark, Brower Bldg., Bakersfield. Own-ers, Taft School District. Bids are now being received for furnishing all ma-terials and labor necessary to install and complete the group of buildings consisting of one main building, one manual arts building, and one domestic science building. Plans are now being issued to contractors desiring to bid on the erection of the buildings by Architect Clark. Bids will be received up to the hour of 2 o'clock p. m. on May 5th at the office of W. S. Lierly, Secretary of the Board of High School Trustees. Bids will also be received at the same time for the furnishing of all wood working machinery for the man-ual training department of the school, according to plans prepared by Archi-tect Clark. Further information may be had from the architect.

REDWOOD CITY, SAN MATEO CO., CAL.—School, 1 story and base, hollow tile, $14,000. Architect, N. W. Sexton, Merchants' National Bank Bldg., S. F. Owners, Redwood City School District. Five sets of figures were received for the construction of the new school building. All bids were in excess of the amount available for construction and were rejected. A complete list of the figures received will be found un-der the heading of San Jose and the Santa Clara Valley in this issue. Plans will be revised and new bids called.

ANDERSON, SHASTA CO., CAL.—School, 1 story and base, hollow tile and brick, $15,000. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Anderson School District. Plans will be prepared for this build-ing as soon as bonds are voted. There will be four class rooms. Further men-tion will be made of this work.

PLACENTIA, ORANGE CO., CAL.—School, 1 story and base, reinforced concrete, $27,000. Architect, Frederick H. Eley, Register Bldg., Santa Ana. Owners, Placentia School District. Will contain six class rooms, manual train-ing and domestic science rooms, office and assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and oil burning furnace, vacuum cleaning and modern school plumbing will be installed. Exterior will be faced with cement plaster. Plans are being prepared.

LA CANADA, LOS ANGELES CO., CAL.—School, 1 story and base, hollow tile, $25,000. Architects, Allison & Al-lison, Hibernian Bldg., L. A. Owners, La Canada School District. Will con-tain four class rooms, an auditorium seating 300 people, library and office. Interior finish pine with maple floors. Central heating system. Clay tile roof. Exterior faced with cement plaster. Plans being prepared.

OXNARD, VENTURA CO., CAL. — School, 1 story and base, brick or hol-low tile, $55,000. Architects, Allison & Allison, Hibernian Bldg., L. A. Own-ers, Oxnard School District. Will con-tain eight class rooms, assembly hall and library. Fireproof corridors. Pine interior trim and maple floors. Steam heat, oil burning equipment. Showers in locker rooms. Clay tile roof. Ex-terior faced with cement plaster. Plans complete and figures being taken.

SEATTLE, WASH.—School, 2 story and base, brick, $60,000. Architect, Edkar Blair, 1426 Jackson street, Seat-tle. Owners, City of Seattle. Building will be in the nature of an addition to the Queen Anne School, located at the corner of Sixth avenue and Lee street. Will contain six class rooms, manual training and domestic science depart-

ments. Interior finish pine with maple floor. Steam heat, vacuum cleaning and modern school plumbing. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close May 8th.

Contracts Awarded

OAKLAND, CAL.—School addition, I story, frame and plaster, $3,880. Architect's name not given. Owners, City of Oakland. Contractor, Alfred Olson, 1116 Myrtle street, Oakland. Contract price, $3,880. Contract covers the construction of an addition to the Highland School.

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick and steel, $90,500. Architects, Carl Werner and Charles E. J. Rogers, Phelan Bldg., S. F. Owiers, City of Alameda. Contractor, Harvey S. Klyce, Sheldon Bldg., S. F., general construction, $82,137. Schrader Iron Works, 1247 Harrison street, S. F., structural steel and ornamental iron work, $11,000. A complete list of the bids received for this work appears under the heading of Oakland and Alameda County in this issue.

SEWERS, STREET WORK & WATER SYSTEMS

STOCKTON, SAN JOAQUIN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. A big street improvement job is planned by the City Commissioners in East Stockton. At the last meeting resolutions of intention were approved calling for sealed bids which must be in by May 5th. The contemplated work includes the district from East street to Hazel and from Fair Oaks avenue to Sonora street, and calls for asphalt macadam streets together with curbs, gutters and concrete sidewalks. Plans may be had from the City Clerk.

LODI, SAN JOAQUIN CO., CAL.—Asphalt plant. Cost not stated. Engineer, City Engineer, Lodi. Owners, City of Lodi. At the last meeting of the City Council the City Clerk was instructed to advertise for bids for a paving plant with a capacity of from 50 to 100 cubic yards of asphalt per day. A concrete mixer is also included in the call for bids, which will close May 15th. Plans may be had from the City Clerk.

NAPA, NAPA CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be received until May 4th at 10 a. m. for building and grading new road in Capell from Berryessa road down the valley to Galbreath's.

SALINAS, MONTEREY CO., CAL.—Street improvements, $8,998.07. Engineer, City Engineer, Salinas. Owners, City of Salinas. At the last meeting of the City Council plans and specifications for the improvement of Front street were adopted, and bids were ordered called. Front street will be improved from the south line of Alisal street to a point 50 feet north of the northeast corner of Front and Summer streets, with a hydraulic base concrete and asphalt screening surface, with concrete curbing, every intersection being included.

WOODLAND, YOLO CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer, Woodland. Owners, City of Woodland. At the last meeting of the City Council bids for paving north First and north Second streets were opened, but further action was deferred. Two firms bid on the work, Clark & Henery, Ochsner Bldg., Sacramento, being the lowest with a bid of 12.2c a square foot for the Warrenite pavement. The other bid was 13c a square foot. It is probable that Clark & Henery will be awarded the contract.

STOCKTON, SAN JOAQUIN CO., CAL.—Street improvement. Cost not stated Engineer, City Engineer, Stockton. Owners, City of Stockton. Bids will be opened on May 5th for the paving, grading, construction of sidewalks and curbs on Eugenia street, from the south line of Market street to the north line of Washington street, and from the south line of Washington street to the north line of Lafayette street, and from the south line of Sonora to boundary of H. P. Jensen's Addition to Stockton. Della street, from Fair Fair Oaks avenue to the south line of said H. P. Jensen's Addition to Stockton. Locust street, from the south line of Fair Oaks avenue to the south line of East Church street. Cedar street, from the south line of Fair Oaks avenue to the north line of East Lafayette street and from the south line of East Lafayette north to East Sonora street, and from the south line of East Sonora street to the north line of East Church street. Market street, from the east line of East street to the west line of Della street. Washington street, Lafayette street and Sonora street, each from East street to the west line of Della street, and from the east line of Della street to the west line of Locust street. East Washington street, from the east line of Locust street to the west line of Cedar street. East Lafayette street, East Sonora street and East Church street, each from the east line of Locust street to the west line of Hazel avenue.

HAYWARD, ALAMEDA CO., CAL.—Street repairs and improvements. Cost as follows. Engineer, Town Engineer, Hayward. Owners, Town of Hayward. At the last meeting of the Town Trustees bids were opened for the repair of upper A street and First street from A street to the boulevard bridge, as follows: W. B. Bridge bid $1.24 per square foot to scarify and roll and oil. D. U. Toffelmier of San Leandro bid $1.03 per square foot. The bids were laid over to next meeting.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on May 4th under the following resolution: That 35th avenue, from the northeast line of East 8th street to the northeast line of the Fruitvale Station Tract, be graded, curbed with concrete, guttered with concrete gutters 3 inches wide, paved with oil macadam, and sidewalked with cement sidewalks 5 feet wide.

OAKLAND, CAL.—Underpass, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received until May 22nd at 10 a. m. for the construction of a concrete and steel underpass under the tracks of the Southern Pacific Railway on county road No. 819 in Pleasanton Road District, Pleasanton Township.

EUREKA, HUMBOLDT CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids w be received until May 9th at 1:30 p. m for clearing a portion of the right-o way for the Lord-Ellis road near Bl Lake in Road District No. 3.

AUBURN, PLACER CO., CAL.—Ro improvement. Cost not stated. Eng neer, Town Engineer, Auburn. Ow ers, Town of Auburn. The Aubu City Trustees have called for bids f the grading of the Auburn-Newcast road to connect with the State hig way. Plans may be had from the Ci Clerk at Auburn.

PORTERVILLE, TULARE CO., CO —Street improvements. Cost not state Engineer, City Engineer, Portervill Owners, City of Porterville. The Ci Trustees have ordered plans and spec fications prepared for the paving all approaches leading into the cit The plans will provide for the pavir of the approaches to the city from th city limits to the downtown paving, feet wide, done so as to permit futu widening. Bids will be called for shor ly on this work.

ASTORIA, ORE.—Paving and vi ducts, reinforced concrete, $200,000. E gineer, City Engineer, Astoria. Ow ers, City of Astoria. Bids have bee ordered received for constructing rei forced concrete viaducts and pavemen in Astoria, of which the estimated co is $200,000. The job is divided into fo sections. Plans may be had from th City Clerk.

VENTURA, VENTURA, CO., CAL.—Highway construction. Cost not stat ed. Engineer, County Surveyor, Ve tura. Owners, Ventura County. Pla and specifications for the Ventura La Crosse road, the first stretch of th Ventura-Nordhoff road, have been ap proved by the Board of Supervisors, an bids were ordered advertised for to b received up to 11 a. m. of May 11th.

VENTURA, VENTURA, CO., CAL.—Highway construction. Cost not stat ed. Engineer, County Surveyor, Ve tura. Owners, Ventura County. Bid will be received by the Board of Su pervisors up to 11 a. m. of May 13th 1916, for improving Division 6, Sectio 1, Ventura to La Crosse road, in ac cordance with county highway plan and specifications. The work will con sist of grading and paving with con crete 4 inches thick and 16 feet wid 6.34 miles of road, and will requir 17,720 cubic yards of excavation, 34,49 linear feet of shaping and rolling roa bed, 6,650 cubic yards of Class B con crete for pavement, 200 yards of Clas B concrete for culverts, etc., 576 fee of corrugated iron pipe, 12,000 pound of reinforcing steel, 3,000 board feet o timber bulkhead, etc.

VENICE, LOS ANGELES CO., CAL.—Street paving. Cost not stated. Engi neer, City Engineer, Venice. Owners City of Venice. Bids will be receive by the City Clerk up to 4 p. m. of Ma 15th, for improving Venice Boulevard from Brenta Place to Penmar avenue by constructing asphaltic concrete pavement; and for grading Walgrove avenue, from Venice Boulevard to the northerly city limits, in accordance with plans and specifications on file a the office of the City Engineer. Certified check of 10 per cent required. C. Y. Burns is the City Clerk.

Contracts Awarded

SAN FRANCISCO—Street improvements. Cost not stated. Engineer, City Engineer, City Hall, S. F. Owners,

City and County of San Francisco. The following contracts for street work have been awarded by the Board of Public Works: The improvement of Willard street, between McAllister and Fulton streets, by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Flinn & Treacy, First National Bank Bldg., S. F. The improvement of the south half of Hancock street, between Sanchez and Noe streets, by the construction of a 7-foot strip of basalt block pavement with a gravel and asphalt filler upon a 6-inch concrete foundation, an asphalt pavement consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface, and by resetting to official line and grade of the granite curbs, awarded to D. O. Church Co., 68 Post street, S. F. The improvement of Bay View street, from Railroad avenue to Flora street, by the construction of granite curbs, artificial stone sidewalks, a 14-foot central strip of vitrified brick pavement, an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway, and by the construction of one brick catch-basin with cast iron frame, grating and trap and 10-inch vitrified, salt-glazed, ironstone pipe culvert, awarded to the Federal Construction Co., 323 Sharon Bldg., S. F. The improvement of Rhode Island street, between 25th and Army streets, by grading, construction of an 8-inch vitrified, salt-glazed, ironstone pipe sewer with 61 Y branches, 4 brick manholes with cast iron frames and covers and galvanized wrought iron steps; also for the improvement of Army street, between Rhode Island and Kansas streets, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers: 8, 15, 18, and 24-inch, 4 Y branches, 2 brick manholes with cast iron frames and covers and fialvanized wrought iron steps, etc., awarded to the Federal Construction Co., 323 Sharon Bldg., S. F. The improvement of Hudson avenue, between Railroad avenue and Mendell by grading, concrete curbs; an 8-inch vitrified, salt-glazed, ironstone pipe sewer, 3 Y branches, 1 brick manhole with cast iron frame and cover and galvanized wrought iron steps, 4 brick catchbasins with 10-inch vitrified, salt-glazed, ironstone pipe culverts, artificial stone sidewalks, and asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic surface, awarded to Eaton & Smith, 407 11th street, S. F. For the improvement of Elsie street and Esmeralda street by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: an 8-inch with 10 Y branches and 12-inch with 4 Y branches and one brick manhole with cast iron frame and cover and galvanized wrought iron steps, awarded to Thos. A. Clark, 68 Post street, S. F. For the improvement of portions of 13rd avenue and Clement street by grading, concrete curbs, artificial stone sidewalks 6 feet in width, constructing the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances, 12 and 8-inch, with 6 brick manholes, galvanized wrought iron steps, 23 Y branches and 5 side sewers, 8 brick catchbasins, with cast iron frames, gratings and traps and 8 10-inch vitrified, salt-glazed, ironstone pipe culverts, a 14-foot central strip of vitrified hillside brick on a concrete foundation; also an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland.

NAPA, NAPA CO., CAL.—Street improvement. Cost as follows. Engineer, Town Engineer, Napa. Owners, Town of Napa. Contractor, George Errington, Napa, improvement of Pine street. Contract price, $2,145.14. F. A. Burge, Napa, improvement of Laurel street. Contract price, $2,372.65.

SALINAS, MONTEREY CO., CAL.—Highway construction, $22,923.10. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractor, W. A. Dontanville, R. F. D box 405, Pasadena. Contract price, $22,923.10.

LOS ANGELES, CAL.—Paving, sewers and lighting system, $46,916.65. Engineer, City Engineer, Los Angeles. Owners, City of Los Angeles. Contractor, George R. Curtis, 552 South St. Louis street, L. A. Contract price, $46,916.65.

LOS ANGELES, CAL.—Highway construction, $14,191.05. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Contractors, White & Gaskill, Long Beach. Contract price, $14,191.05.

BEAUMONT, RIVERSIDE CO., CAL.—Sidewalks, etc. $40,515. Engineer, Town Engineer, Beaumont. Owners, Town of Beaumont. Contractors, The Highway Construction Co., First National Bank Bldg., Highland. Contract price, $40,515.

STORES AND OFFICES

OAKLAND, CAL.—Stores and lofts, 8 story and base. Class A construction. Cost not stated. Architect, Walter J. Mathews, 927 Broadway, Oakland. Owner, Charles Jurgens Co. Location, northwest corner 15th and Clay streets. Plans are now out for figures for the excavating and concrete work. The building will have a complete steel frame and brick exterior walls. Interior finish pine. Metal window sash and frames. Freight and passenger elevators. Steam heat and oil burning system. Exterior faced with pressed brick. Patent store fronts and marble bases.

OAKLAND, CAL.—Stores, 1 story and base, brick. Cost not stated. Architect, Walter D. Reed, Oakland Bank of Savings, Oakland. Owner, Walter Arnstein. Location, 28th and Broadway. Will contain a number of small stores. Interior finish pine with hardwood in the display windows. Marble bases and patent store fronts. Exterior faced with pressed brick. Plans being revised and new figures to be called.

VISALIA, TULARE CO., CAL.—Stores and rooms, 2 story and base, brick, $40,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Cross & Lillie. Location, Garden and Center streets. Will contain stores on the first floor and a number of single rooms and baths on the second floor. Interior finish pine and redwood. Hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

SEATTLE, WASH.—Market, 2 story and base, reinforced concrete, $60,000. Architect, Charles Haynes, Mehlhorn Bldg., Seattle. Owners, Westlake Market Co. Location, Virginia, Westlake and 6th avenue, covering an area of 347 by 120 by 363. Other than the fact that the building will be the most modern market structure in Seattle, details cannot be given. Exterior will be faced with cement plaster. Plans are being prepared.

PORTLAND, ORE.—Stores and offices, 3 story and base, reinforced concrete, $30,000. Architects, Houghtaling & Dougan, Henry Bldg., Portland. Owners, Manley & Manley Auto Co. Location, 11th and Burnside streets, covering an area of 100 by 100 feet. Construction fireproof. Main floor will be arranged for sales rooms. Upper floors for offices. Interior finish pine and hardwood with some ornamental plaster. Steam heat and vacuum cleaning. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

THEATRES

SAN FRANCISCO—Theatre, 1 story and base. Class A construction, $150,000. Architect, Emery M. Frasier, 1973 Geary street, S. F. Owner, Emery M. Frasier. Location, south Stevenson east of 6th, covering an area of 78½ by 145 feet. Will be connected with Market street by a viaduct. Construction fireproof. Complete steel frame. Interior finished in hardwood and ornamental plaster. Complete system of heating and ventilating. Exterior faced with cement plaster. Plans complete and figures being taken.

LONG BEACH, LOS ANGELES CO., CAL.—Theatre and lodge hall, 2 story and base, brick, $50,000. Architect, H. Alfred Anderson, Moody Bldg., Long Beach. Owner, E. W. Bollman. Location, 30 Pine street, covering an area of 50 by 150 feet. Main floor will contain the theatre proper and upper floor arranged for lodge halls. Interior finish pine and ornamental plaster. Steam heat and oil burning system. Patent store fronts. Exterior faced with pressed brick. Plans being completed.

Contracts Awarded

SALEM, ORE.—Stores and lofts, 2 story and base, brick, $15,000. Architect, George M. Post, Salem. Owner's name withheld. Contractor, P. H. D'Arcy, Salem. Contract price, $15,000.

SAN FRANCISCO—Stores and shops, 1 story and base, brick, $85,000. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owner, Benj. G. McDougall. Contractor, E. Leiter & Sons, Call Bldg., S. F. Contract price, $85,000.

SEALED PROPOSALS

PROPOSALS FOR SLUICE GATES.

SLUICE GATES—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Washington, D. C., until **2 o'clock p. m. May 15, 1916,** for furnishing steel and cast iron sluice and regulator gates, gate frames, lifting devices and accessories and miscellaneous fabricated steel for Milk River project, Montana. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR WOOD STAVE PIPE.

WOOD STAVE PIPE—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals

will be received at the office of the United States Reclamation Service, Grand Junction, Colo., until **2 o'clock p. m. May 23, 1916,** for th construction of approximately 3,950 linear feet of 60-inch diameter continuous wood stave pipe for the Grand Valley project, Colorado. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Grand Junction, Colo. A. P. DAVIS, chief engineer.

PROPOSALS FOR OIL AND LUMBER.

FUEL OIL AND LUMBER—Sealed proposals will be opened by the light house inspector, San Francisco, Cal., at **2 o'clock p. m. May 18, 1916,** for furnishing bituminous coal, lumber, gasoline and distillate. Information on application to above office.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1036 — Office General Purchasing Officer, Panama Canal, Washington, D. C.—Sealed proposals will be received here until **May 12, 1916,** under circular 1036 for furnishing copper mesh, screening, tacks, diggers, water closets, water-closet bowls, lavatories, siphons, cocks, valves, pipe, bolts, and pipe fittings. For further information address EARL L. BROWN, major, corps engineers, U. S. A., general purchasing officer.

NOTICE TO CONTRACTORS.

Blue prints, giving details, etc., for Employees' Buildings and additions to several schools and new cottages at Navajo Indian Agency, Arizona, can be examined at U. S. Indian Warehouse, 608 Howard St., San Francisco, Cal.

Bids covering same will be opened at Washington, D. C., May 29, 1916. (*)

NOTICE TO CONTRACTORS.

NOTICE is hereby given that sealed bids will be received by the Board of Supervisors of San Mateo County, California, up to **Monday, the 5th day of June, 1916, at ten o'clock** for the building complete of a County Jail building in Redwood City, San Mateo County, California, all in accordance with the plans and specifications as prepared by Will H. Toepke, Architect, and approved by the Board of Supervisors on April 17th, 1916.

Said building to be erected upon the easterly line of Webster street north of Broadway.

Bids to be received as follows:

No. 1. Estimate on the building of the Jail Building complete and known as a General Contract, and including such work as excavating, reinforced concrete walls and foundations, cement floors and yards, structural steel work, sheet metal work, mill work, carpenter work, lathing, plastering, glazing, metal staircases, terra cotta, cementing, sandstone and granite work, damp-proofing, plumbing, sewering, gas fitting, electric wiring, painting, steam heating, oil burning equipment and storage tank, and any and all other work as shown on plans and described in specifications for the general construction of the Jail Building.

(Note) All jail equipment, cell work, plate work, metal window guards and doors, locking devices, etc., and any and all other work in connection with the jail work, (except as specified in general specification) is not included in this estimate Number 1.

No. 2. Estimate on labor and material necessary to furnish and install complete all cell work, locking devices, plate work, metal window guards and doors, stair cases, metal frames, gratings, bunks, etc., all as shown in and described by plans and specifications marked Jail Specifications.

Bidders will be required to submit with their proposal a certified check or certificate of deposit on some responsible Bank or Trust Company in the sum of ten (10%) per cent of their bid. Said check to be made payable to the County Treasurer of the County of San Mateo, and will be held as security that the bidder will enter into a written contract with the Board of Supervisors of the County of San Mateo if awarded the contract within ten (10) days from date of award. In the event of a breach of the terms under which this check is held, the said check or certificate of deposit will be cashed and the proceeds thereof placed to the credit of the building fund of said County of San Mateo.

The successful bidder will further be required to give a bond from a satisfactory Surety Company in the sum of fifty (50%) per cent of his contract price, conditional for the faithful performance of his contract within the time limited, and to further insure the payments of all claims for labor and material furnished on the work.

The successful bidder will also be required to protect the County against liability arising under the Workmen's Compensation Act and against any and every contingency under which the county might be held liable during the progress of the work connected with the construction of said Jail Building.

The contract will provide for the retention of twenty-five (25%) per cent of the contract price for thirty-five (35) days after the completion of the work, and the filing of the notice of completion thereof. Bidders will take notice that there is now available for the purpose of constructing said Jail Building the sum of $12,857.00; that sixty (60%) per cent of the remainder of the amount necessary for the construction of said Jail Building will be available in cash on or about January 1, 1917, and that the balance will be available in cash about June 1, 1917. The contract price will be made payable in installments as the work progresses and as the funds are actually available.

Sealed estimates should be filed with the Clerk of the Board of Supervisors.

The said Board of Supervisors of said County hereby reserves the right to reject any and all bids.

Plans and specifications can be seen and secured at the County Clerk's Office in Redwood City, or at the office of the Architect, W. H. Toepke, No. 46 Kearny street, Room 508, San Francisco, California.

All bidders estimating on work will be required to deposit the sum of twenty-five ($25.00) Dollars in check or cash on securing the plans and specifications. This amount to be returned to the Contractor when plans and specifications are returned in good condition.

By order of the Board of Supervisors.
JOS. H. NASH,
Clerk.

PROPOSALS FOR CONCRETE WEIR.

ALTERNATE SEALED BIDS or proposals for furnishing of materials and constructing a Reinforced Concrete Weir, Water Cushion, Highway Bridge, Steel Railway Bridge, Movable Gates, and all other appurtenances, on the west bank of the Sacramento River at Bryte's Bend in Yolo County, California, for the City of Sacramento, Sacramento County, California, and endorsed, "Proposals for Furnishing Materials and Constructing the Sacramento By-Pass Weir," will be received at the office of the City Clerk, City Hall, Sacramento, California, between the hours of **10:00 and 11:00 A. M., Tuesday, May 23, 1916,** and will be publicly opened and read in the Council Chamber, City Hall, Sacramento, on Tuesday, May 23, 1916, after 11.00 A. M.

All bids shall be made upon the blank forms of proposal contained in a pamphlet with the contract, specification and drawings to be obtained at the office of the City Clerk, City Hall, Sacramento, California.

Each bidder must accompany his proposal by a certified check amounting to ten (10%) per cent of his bid. A liability bond will be required of the successful bidder amounting to fifty (50%) per cent and a contract guarantee bond in accordance with the following schedule: Ordinance No. 24, Third Series, $50,000 and under, a bond for fifty (50%) per cent of the contract price. Ordinance No. 186, Third Series, $50,000 to $100,000, a bond for twenty-five (25%) per cent of the contract price. Ordinance No. 186, Third Series, $100,000 to $250,000, a bond for fifteen (15%) per cent of the contract price. Ordinance No. 186, Third Series, over $250,000 a bond for ten (10%) per cent of the contract price.

The City Commission reserves the right to reject any items of any or all proposals or to accept any items of any proposal, if they deem it to the interest of the City of Sacramento so to do.

A deposit of two dollars and fifty cents ($2.50) will be made for each copy of the pamphlet containing the complete contracting documents.

(Signed) M. J. DESMOND,
City Clerk.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by the Board of Trustees of the Newcastle School District at Newcastle, Cal., at the residence of Mrs. Hazel S. Schnabel up to and including the hour of **12 o'clock, noon, Saturday, May 13th, 1916,** said bids then and there to be opened and read for furnishing all plant, materials and labor and doing all the work required for the complete construction and erection of a One Story Grammar School at Newcastle, Cal., in accordance with the plans and specifications therefor, copies of which may be obtained on application to Mrs. Hazel S. Schnabel, Newcastle, California.

All bids must be submitted on forms prepared for this work.

Cash or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid. A deposit of $5.00 will be required on plans and specifications to be returned immediately on return of documents in good condition on or before May 13, 1916.

The Board reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to Mrs. Hazel S. Schnabel, Newcastle, Cal., and plainly marked on the envelope, Proposal for Grammar School, Newcastle, Cal.

(Signed) W. E. LININGER,
F. H. HOWELL,
HAZEL S. SCHNABEL.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction, complete, of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the acting supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR VACUUM CLEANING

VACUUM SYSTEM — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 8, 1916,** for a vacuum cleaning machine in the United States post office and court house at Los Angeles, Cal., in accordance with the specification, copies of which may be had at this office or at the office of the custodian at Los Angeles, Cal., in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR DREDGING.

DREDGING—U. S. Engineer Office, 723 Central Building, Los Angeles, Cal. —Sealed proposals for dredging in Los Angeles Harbor, California, will be received here until **11 a. m. May 10, 1916,** and then opened. Information on application.

PROPOSALS FOR BUILDING.

BUILDING — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 18, 1916,** for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR WOOD STAVE PIPE.

WOOD STAVE PIPE—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service at Fort Shaw, Mont., until **2 o'clock p. m. May 5, 1916,** for the construction of approximately 575 linear feet of 96-inch diameter continuous wood stave pipe for the Sun River project, Montana. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Fort Shaw, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR BUILDING.

BUILDING—Fort Huachuca, Ariz.—Sealed proposals will be received here until **1 p. m. May 15, 1916,** for furnishing materials and labor and constructing, complete, two double captains' quarters, four stable, guard and shop buildings, administration building, quartermaster corps barracks, and laundry. For information address constructing quartermaster.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal. — SEALED PROPOSALS, in triplicate, for constructing four field officers' and eight double sets officers' quarters at Presidio of San Francisco, Cal., will be received here **until 11:00 A. M., May 18, 1916,** and then opened. Further information on application. (*)

NOTICE TO CONTRACTRS.

SEALED PROPOSALS will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., **until May 20, 1916,** for constructing one concrete and two wooden buildings, and sewer and water system at the naval radio station, Cordova, Alaska. Plans and specifications may be obtained on application to the Bureau of Yards and Docks, Washington, or to the commandant, navy yard, Mare Island, Cal.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 8, 1916.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction complete of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Wednesday, May 3, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Four Sanitary Hospital Cottages and Six Sanitary Cottages," Veteran's Home of California, Yountville, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's Bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, envelope: "Proposal for 'Four Sanitary Hospital Cottages and Six Sanitary California, and plainly marked on the Cottages,' Veteran's Home of California, Yountville, California."

(SIGNED) W. F. McCLURE, State Engineer. (*)

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Sealed proposals indorsed "Proposals for Three Radio Buildings" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. May 20, 1916,** and then and there publicly opened, for constructing one concrete, two wooden buildings and sewer and water systems at the naval radio station, Cordova, Alaska. Plans and specifications can be obtained on application to the bureau or to the commandant, navy yard, Mare Island, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 18, 1916,** for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, Acting Supervising Architect.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK — Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Powell, Wyo., until **2 o'clock p. m. May 3, 1916,** for the construction of structures on the Shoshone project, Wyoming, involving about 16,000 cubic yards of excavation, 1,500 cubic yards of reinforced concrete, 5,500 square yards of paving and the placing in wooden structures of about 120,000 feet,. B. M., of lumber. The work is located near the stations of Garland, Mantua, Frannie, Deaver and Cowley, Wyo., on the C. B. & Q. Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Powell, Wyo. A. P. DAVIS, chief engineer.

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. McClure, State Engineer, Forum Building, Sacramento, California, up to and including **12 o'clock, noon, Monday, May 8th, 1916,** said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two New Stairs to Basement," Exposition Building, Agricultural Park, Los Angeles, California, in accordance with plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two New Stairs to Basement,' Exposition Building, Agricultural Park, Los Angeles, California."

State Engineer.

(Signed) W. F. McCLURE,

PRODUCTION OF FULLER'S EARTH ON THE INCREASE.

The fuller's earth industry in this country in 1915 will show a healthy condition, according to reports received by the United States Geological Survey. The industry is comparatively recent, the first production having been reported in 1895 from Florida, though fuller's earth was discovered a few years earlier in Arkansas. The production in 1915 was 47,901 tons, valued at $489,219, which was an increase of 6,920 tons and $85,573 over 1914. On the other hand the imports of fuller's earth, which were 19,441 tons, valued at $152,493 in 1915, decreased 5,536 tons and $42,590 compared with 1914. The marketed production in 1915 was therefore more than twice as great as the imports, and the value of the domestic earth marketed was more than three times that of the imported earth. The average price per ton of American earth was $2.37 greater than that of the imported. Fuller's earth is now used principally in clarifying mineral and vegetable oils and fats and greases, though it derived its name from its original use, the fulling of cloths, for which it is still employed in a small way. Six States reported production of fuller's earth for 1915, Arkansas, California, Florida, Georgia, Massachusetts and Texas. The State leading in production is Florida, which reported nearly 75 per cent of the output for 1915. Georgia was second and Arkansas third.

SAN FRANCISCO ASSOCIATION OF CIVIL ENGINEERS REGRET REMOVAL OF LEON H. NISHKIAN.

Referring to the recent removal of Mr. Leon H. Nishkian from the department of Building Permits, the subject was discussed at length at the last meeting of the San Francisco Association of Members of the American Society of Civil Engineers and the following resolution was unanimously adopted:

"RESOLVED that the San Francisco Association of Members of the American Society of Civil Engineers expresses its confidence in the impartial, trustworthy, fearless and competent way and manner in which Mr. Leon H. Nishkian has conducted the work in his office as structural engineer to the Building Permit Department, and our regrets as to the removal from his position."

THE LAND QUESTION IN CALIFORNIA.

John Z White of Chicago, Author and Lecturer will speak at the regular weekly luncheon of the League for Home Rule in Taxation, on Wednesday, April 26th, 1916, at the Hof Brau, 4th and Market streets, at 12:15, on "The Land Question in California, and The First Steps To Its Solution."

This may be Mr. White's only public appearance in San Francisco on this trip. The public is invited. Admission free. Luncheon a la carte.

HOUSING AND HEALTH.

Model Homes Planned For Washington. Experience Foreign Cities Proves Sanitary Homes Reduce Sick Rate.

Plans have just been completed for the erection of a series of model homes in the City of Washington for the purpose of demonstrating to the Nation the relationship between good housing and good health. These are to be known as the Ellen Wilson homes, and are not in the nature of an experiment, but are intended as a demonstration to the entire United States.

The intimate connection between bad housing and bad health and good housing and good health is clearly recognized in Washington, where the alley dwellings have long been a matter of concern both to the health authorities and to public spirited citizens who wish the Capital city to be an example to the Nation. The alleys have been paved, sewers and water mains have been laid in them, they are lighted and cleaned as are the streets. Yet they keep their old lead over the streets when it comes to totaling the figures for disease and death.

In this, Washington's experience has been like that of Liverpool and other European cities which tried unsuccessfully to make badly situated dwellings wholesome by cleaning and fumigating. After thirty-three years of unavailing effort to improve that which was fundamentally bad, Liverpool finally decided that the only hope lay in wiping out its insanitary areas. It demolished the old houses by the acre and in place of them built new houses. Where dwellings have been crowded so close together that there was scarcely passage room for a stout man to squeeze his way to one of the old rear houses, it built new dwellings opening upon wide spaces which provided light and air. Immediately sickness and death decreased—and with them vice and crime. What had seemed a hopeless struggle for more than a generation was won.

Other cities in Europe have done the same and with the same results, but what makes Liverpool's figures of unusual value is that the new houses are occupied by the same people who occupied the old ones. In some cases the population on a given area in the new dwellings is 99 per cent the same as that which lived on the area in the old buildings. So here the effect of housing is not complicated by questions of different occupants, of better food or clothing or a generally higher standard of living. The housing only has been changed and the results are striking.

Washington is attempting much the same work, though in a less dramatic manner. Congress has enacted a law which goes into effect on July 1, 1918, according to which all the alley dwellings in the District of Columbia must cease to be used for dwelling purposes. Meanwhile, in order that there may be accommodation for those who will be forced to seek new homes in street houses, there has been organized a limited dividend company which is to build houses that will be not only sanitary, that will provide not only abundance of light and air, but houses attractive architecturally, homelike in their arrangements and containing bath rooms and provisions for hot water in place of the old out-door closets and hydrants.

Such houses as these cannot, of course, yield the return upon the investment that the old houses did. In fact Congress in its act incorporating the Ellen Wilson Homes, limited its dividends to five per cent net. But they will yield to their stockholders a dividend in the form of satisfaction because of a needed work well done. To their tenants they will give relief from preventable sickness and death and an increase in the joy of living.

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DEPARTMENT OF THE INTERIOR.

BUREAU OF MINES.

New Publications. (List 43.—April, 1916)

BULLETINS.

Bulletin 91. Instruments for recording carbon dioxide in flue gases, by J. F. Barkley and S. B. Flagg. 1916. 60 pp., 1 pl., 25 figs.

Bulletins 102. The inflammability of Illinois coal dusts, by J. K. Clement and L. A. Scholl, Jr. 1915. 74 pp., 5 pls., 2 figs.

Bulletin 113. Abstracts of current decisions on mines and mining, reported from May to September, 1915, by J. W. Thompson. 1916. 123 pp.

TECHNICAL PAPERS.

Technical Paper 113. Some properties of the water in coal, by H. C. Porter and O. C. Ralston. 1916. 30 pp., 3 figs.

Technical Paper 126. The casting of clay wares, by T. G. McDougall. 1916. 26 pp., 6 figs.

Technical Paper 131. The compressibility of natural gas at high pressure, by G. A. Burrell. 1916. 12 pp., 2 figs.

Technical Paper 131. Explosibility of gases from mine fires, by G. A. Burrell and G. G. Oberfell. 1916. 31 pp., 1 fig.

NOTE:—Only a limited supply of these publications is available for free distribution, and applicants are asked to co-operate in insuring an equitable distribution by selecting publications that are of especial interest. Requests for all papers can not be granted. Publications should be ordered by number and title. Applications should be addressed to the Director of the Bureau of Mines, Washington, D. C.

FAST ELECTRIC TRAINS TO Sacramento
LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

BRIDGE REPAIRS — $70,000. San Francisco. Engineer's name not given. Owners, Northern Electric Railroad Co., Hobart Bldg., S. F. The receiver of the Northern Electric Railroad has been granted permission to expend $70,000 for repairs to two of the company's bridges. Repairs to the bridge over the American River will cost $35,000 and a like amount will be spent on repairs to the bridge over the Feather River.

APARTMENT HOUSE—4 story and base. Class C construction, $35,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Rulfs. Location, west Leavenworth north of Sutter, covering an area of 37½ feet by 80 feet. Will contain sixten apartments of two and three rooms with wall beds and private baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant and automatic elevator. Bath rooms finished in tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick and cement plaster. Plans complete and segregated figures being takn.

APARTMENT HOUSE—3 story and base, frame. $10,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Hyde street, covering an area of 25 by 74 feet. Will contain six apartments of two rooms and bath. Interior finish gum and white enamel. Hardwood floors. Steam heat and hot water system. Bath rooms tile. Marble and tile wainscot in vestibule. Exterior covered with cement plaster and shingles. Some veneer brick. Plans complete and figures being taken

APARTMENT HOUSE AND STORE—3 story and base, frame, $16,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Lockman. Location, Sutter near Fillmore, covering an area of 27½ by 136½ feet. Will contain one store on the ground floor and eight apartments of two, three and four rooms on the upper floors. Interior finish pine and elm panels. Hardwood floors. Hot water system and gas steam radiators. Patent store fronts and marble bases. Wall beds. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and figures under advisement.

APARTMENT HOUSE ALTERATIONS—3 story, frame, $2,500. San Francisco. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, J. H. Clancy. Location, 23rd and Eureka. Work will consist of altering the present dwelling into four apartments of four rooms each. New interior finish, plastering, plumbing and electric work will be required. Exterior will be covered with rustic and cement plaster. Plans are complete and work will be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $7,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, J. Zolezzi. Location, west Powell north of Filbert. Will contain five apartments of three rooms each with bath. Interior finish pine. Some hardwood floors. Wall beds. Elm panels. Hot water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, D. Vatuone. Location, Washington near Mason. Will contain six suites of three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Wall beds. Bath rooms tile and composition. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, Cost not stated. San Francisco. Architect, none. Owner, Mr. Klimhaupt, 1750 Hyde street, S. F. Location, 4th avenue between Geary and Clement. Will contain four flats of four rooms and bath. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—23, 2 story and base, frame, $3,500 to $4,000. San Francisco. Architect, none. Owner, William F. Yates, 335 21st avenue, S. F. Location, 17th and 18th avenues and Cabrillo. Each of the dwellings will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic, cement plaster and shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, W. J. Keenan, Masonic avenue and Fulton street, S. F. Location, east Atalaya Terrace. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,500. San Francisco. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owner, Walter G. Campbell. Location, northwest Anza and 17th avenue. Will contain eight rooms, two baths and a basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, hot water circulating system and open fire places. Mantels tile and brick. Bath rooms tile. Exterior covered with cement plaster. Plans complete and figures in and under advisement.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, Thomas Craig, 526 Haight street, S. F. Location, west 8th avenue north of Noriega. Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

DYEING AND CLEANING PLANT—2 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owner, J. Alec Cleaning Works. Location, 2164 Folsom street, covering an area of 150 by 200 feet. Will contain office and factory. Interior finish pine with cement floors. Metal window sash and frames, elevator service, steam heat, boiler equipment, special tanks and machinery. Exterior faced with cement plaster. Plans complete and figures being taken. The work is segregated into the following departments: Reinforcing steel, concrete and brick work; carpentry and mill work; lath and plastering; electric work; painting; roofing; metal window sash and frames; glass and glazing; elevator work.

THEATRE—1 story and base. Class A construction, $150,000. San Francisco. Architect, Emery M. Frasier, 1973 Geary street, S. F. Owner, Emery M. Frazier. Location, south Stevenson east of 6th, covering an area of 78½ by 415 feet. Will be connected with Market street by a viaduct. Construction fireproof. Complete steel frame. Interior finished in hardwood and ornamental plaster. Complete system of heating and ventilating. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded

WHARF CONSTRUCTION — Reinforced concrete, $12,500. San Francisco. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractors, Grace & Bernieri, Spreckels Bldg., S. F. Contract price, $12,500.

BRIDGE REPAIRS STEEL — $2,487. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Thomson Bridge Co., S. F. Contract price, $2,487.

STREET IMPROVEMENTS—Cost not stated. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The following contracts for street work have been awarded by the Board of Public Works: The improvement of Willard street, between McAllister & Fulton streets by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Flinn & Treacy, First National Bank Bldg., S. F. The improvement of the

south half of Hancock street, between Sanchez and Noe streets, by the construction of a 7-foot strip of basalt block pavement with a gravel and asphalt filler upon a 6-inch concrete foundation, an asphalt pavement consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface, and by resetting to official line and grade of the granite curbs, awarded to D. O. Church Co., 68 Post street, S. F. The improvement of Bay View street, from Railroad avenue to Flora street, by the construction of granite curbs, artificial stone sidewalks, a 14-foot central strip of vitrified brick pavement consisting of 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway, and by the construction of one brick catchbasin with cast iron frame, grating and trap, and 10-inch vitrified, salt-glazed, ironstone pipe culvert, awarded to the Federal Construction Co., 323 Sharon Bldg., S. F. The improvement of Rhode Island street between 25th and Army streets by grading, construction of an 8-inch vitriled salt-glazed ironstone pipe sewer, with 61 Y branches, 4 brick manholes with cast iron frames and covers and galvanized wrought iron steps, also for the improvement of Army street, between Rhode Island and Kansas streets by the construction of the following vitrified, salt-glazed, ironstone pipe sewers, 8, 15, 18 and 24-inch, 4 Y branches, 2 brick manholes with cast iron frames and covers and galvanized wrought iron steps, etc., awarded to the Federal Construction Co., 323 Sharon Bldg., S. F. The improvement of Hudson avenue, between Railroad avenue and Mendell, by grading, concrete curbs, and 8-inch vitrified, salt-glazed, ironstone pipe sewer, 30 Y branches, 1 brick manhole with cast iron frame and cover and galvanized wrought iron steps, 4 brick catchbasins with 10-inch vitrified, salt-glazed ironstone pipe culverts, artificial stone sidewalks, and asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic surface, awarded to Eaton & Smith, 407 11th street, S. F. For the improvement of Elsie street and Esmeralda street by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: An 8-inch with 10 Y branches and 12-inch with 4 Y branches and one brick manhole with cast iron frame and cover and galvanized wrought iron steps, awarded to Thomas A. Clark, 68 Post street, S. F. For the improvement of 43rd avenue and Clement street by grading, concrete curbs, artificial stone sidewalks 6 feet in width, constructing the following vitrified, salt-glazed ironstone pipe sewers and appurtenances, 12 and 8-inch with 6 brick manholes, galvanized wrought iron steps, 23 Y branches and 5 side sewers, 8 brick catchbasins, with cast iron frames, gratings and traps and 8 10-inch vitrified, salt-glazed, ironstone pipe culverts, a 14-foot central strip of vitrified hillside brick on a concrete foundation, also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland.

RESIDENCE — 2 story and base, frame, $11,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F Owner, E. Brooks. Location, Forest Hill. Contractor, E. J. Angell, premises. Contract price, $11,000.

HOSPITAL—2 story and base, reinforced concrete, $43,000. San Francisco. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Union Iron Works. Contractor, Val Franz, 185 Stevenson street, S. F. Contract price, $43,000.

OAKLAND AND ALAMEDA COUNTY

STREET REPAIRS AND IMPROVEMENTS—Cost not stated. Hayward, Alameda Co., Cal. Engineer, Town Engineer, Hayward. Owners, Town of Hayward. At the last meeting of the Town Trustees bids were opened for the repair of upper A street and First street, from A street to the boulevard bridge, as follows: W. B. Bridge bid $1.24 per square foot to scarify and roll and oil. D. U. Toffelmier of San Leandro bid $1.03 per square foot. The bids were laid over to next meeting.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on May 4th under the following resolution: That 35th avenue, from the northeast line of East 8th street to the northeast line of Fruitvale Station Tract, be graded, curbed with concrete, guttered with concrete gutters 3 inches wide, paved with oil macadam, and sidewalked with cement sidewalks 5 feet wide.

UNDERPASS — Steel and reinforced concrete. Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received until May 22nd at 10 a. m. for the construction of a concrete and steel underpass under the tracks of the Southern Pacific Railway on county road No. 819, in Pleasanton Road District, Pleasanton Township.

APARTMENT HOUSE—3 story and base, frame, $20,000. Oakland, Cal. Architect, none. Owner, George Smith, 636 Scenic avenue, Piedmont avenue, Oakland. Location, East 22nd street west of Telegraph. Will contain a total of 39 apartments of two, three and four rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, oil burning furnace, hot water supply and wall beds. Bath rooms tile with composition floors. Marble and tile wainscot in the vestibule. Exterior covered with rustic and cement plaster. Plans complete and segregated figures being taken by the owner.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, C. H. Allison, 34 Brookside street, Berkeley. Location, west Mabel south of Ward. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, Emelie Braun, 2547 Piedmont avenue, Berkeley. Location, northeast corner of Piedmont avenue and Parker street. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, F. R. Jordan, 5917 Ayala street, Oakland. Location, south Harwood east of College. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,500. Berkeley, Alameda Co., Cal. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, T. D. Stevenson. Location, Claremont Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, A. W. Pattiani, Merchants' National Bank Bldg., S. F. Owner, Dominies Trombetta. Location, southeast corner 45th and Grove streets. Will contain ter rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, R. Trimlett, 3630 Brookdale avenue, Oakland. Location, south Brookdale avenue west of 38th avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, W. G. Charles, P. O. Box 29, S. F. Location, west Curtis north of Hearst. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 30th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Alameda, Alameda Co., Cal. Architect, none. Owner, J. H. Coburn, Bay Farm Island Bridge, Alameda. Location, 1101 Peach street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $5,000. Oakland, Cal. Architect, none. Owner, James McGuiness, 3615 East 17th street, Oakland. Location, south Park Boulevard west of Brighton. Will contain seven rooms, bath and sleeping porch. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, Emma Coburn, 2370 East 28th street, Oakland. Location, south Madeline west of Laurel. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Al. Nickolsen, 1345 85th avenue, Oakland. Location, west 85th avenue south of East 14th street. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,000. Oakland, Cal. Architect, none. Owner, F. W. Dewey, 1126 71st avenue, Oakland. Location, 2696 Havenscourt Boulevard. Will contain four rooms and bath. Interior finish redwood. Open fire place and tile mantel. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Berkeley, Alameda Co., Cal. Architect, none. Owner, Charles A. Werner, 2416 10th street, Oakland. Location, east Bonar south of Channing Way. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, north Francisco east of Acton. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. Piedmont, Alameda Co., Cal. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner's name withheld. Location, Piedmont. Will contain nine rooms, three baths and sleeping porch. Interior finish eastern oak and white enamel. Hardwood floors throughout. Hot air heating system and hot water circulating system. Bath rooms finished in tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Edward Grandin, 1533 Prince street, Berkeley. Location, west Adeline south of Aileen. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, L. G. Pfrang, 5128 Locksley avenue, Oakland. Location, west Emerald north of 41st street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, Olin S. Grove, 161 Santa Clara avenue, Oakland. Owner, Fred Townsend. Location, east Arlington avenue north of Mendocino. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $6,000. Piedmont, Alameda Co., Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, Frederick Apps. Will contain eight rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, Lloyd A. Rally, 1126 Colusa avenue, Berkeley. Owner, W. W. Johnson. Location, Claremont. Will contain twelve rooms, three baths and sleeping porches. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors throughout. Bath rooms finished in tile. Furnace heat and open fire places. Mantels tile and brick. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

SCHOOL ADDITION—1 story, frame and plaster, $3,880. Oakland, Cal. Architect's name not given. Owners, City of Oakland. Contractor, Alfred Olson, 1116 Myrtle street, Oakland. Contract price, $3,880. Contract covers the construction of an addition to the Highland School.

SCHOOL—2 story and base, brick and steel, $90,500. Alameda, Alameda Co., Cal. Architects, Carl Werner and Charles E. J. Rogers, Phelan Bldg., S. F. Owners, City of Alameda. Contractor, Harvey A. Klyce, Sheldon Bldg., S. F., general construction, $82,137. Schrader Iron Works, 1217 Harrison street, S. F., structural steel and ornamental iron work, $11,000. A complete list of the bids received for this work appears under the heading of Oakland and Alameda County in this issue.

WAREHOUSE—6 story and base, reinforced concrete, $70,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Lyon Storage Co. Location, Broadway and Piedmont avenue, covering an area of 100 by 100 feet. Construction fireproof. General storage space and private vaults. Freight elevator and automatic sprinklers. Metal window sash and frames. Exterior faced with cement plaster. Contract awarded to F. A. Muller, Syndicate Bldg. Plans being revised.

STORES AND LOFTS—3 story and base. Class A construction. Cost not stated. Oakland, Cal. Architect, Walter J. Mathews, 927 Broadway, Oakland. Owner, Charles Jurgens Co. Location, northwest corner 15th and Clay Sts. Plans are now out for figures for the excavating and concrete work. The building will have a complete steel frame and brick exterior walls. Interior finish pine. Metal window sash and frames. Freight and passenger elevators. Steam heat and oil burning system. Exterior faced with pressed brick. Patent store fronts and marble bases.

STORES—1 story and base, brick. Cost not stated. Oakland, Cal. Architect, Walter D. Reed, Oakland Bank of Savings, Oakland. Owner, Walter Arnstein. Location, 28th and Broadway. Will contain a number of small stores. Interior finish pine with hardwood in the display windows. Marble bases and patent store fronts. Exterior faced with pressed brick. Plans being revised and new figures to be called.

SHOP BUILDING—1 story, steel and corrugated iron, $1,530. Oakland, Cal. Architect, none. Owner, Howard Co. Location, southwest First and Market. Cement floor. No interior finish. Exterior covered with corrugated iron. Steel frame. Plans complete and work to be done by Day Labor.

MILL—2 story, frame, $2,000. Oakland, Cal. Architect, none. Owner, W. R. Sibbett Co., 550 Poplar street, Oakland. Location, east Poplar south of 7th. Designed for a waste mill. No interior finish. Special machinery. Exterior shiplap. Plans complete and work to be done by Day Labor.

Contracts Awarded

APARTMENT HOUSE—2 story and base, frame, $5,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Mr. Kohan. Contractor, Mr. Robson, 1519 Chestnut street, Oakland. Contract price, $5,000.

Bids Received For New Porter School.

Alameda Board of Education Received Figures for High Class School Building, Designed by Architects Werner & Rogers.

Bids were opened on Tuesday evening, April 25th, by the Alameda Board of Education for the construction of the new Porter School, a two-story and basement brick, concrete and steel building of twenty class rooms and an assembly hall seating 1200 people. The structure was designed by Architects Carl Werner and Charles E. J. Rogers, Phelan Bldg., San Francisco.

The work was subdivided into the following eight departments: Dept. No. 1, excavating, grading, concrete, granite, brick work, etc; Dept. No. 2, carpentry, mill work, galvanized iron, roofing, glass, hardware, stairs, patent flues, etc.; Dept. No. 3, structural and ornamental iron work, etc.; Dept. No. 4, plumbing, gas fitting, marble work and vacuum piping; Dept. No. 5, electric work; Dept. No. 6, lath and plastering, etc.; Dept. No. 7, painting and kalsomining; Dept. No. 8, heating and ventilating.

Bids were taken under advisement for a few days. Following is a complete list of the bids as received:

Porter School.

Elmer Carlson, Depts. 1, 2, 6, 7, $68,-940; Dept. 2, $36,740.

E. S. Mulford, Dept. 2, $35,070; Dept. 1, $24,285; Depts. 1, 2, $58,755; Depts. 1, 2, 4, 5, 6 and 7, $78,551.

W. D. Henderson, Depts. 1 and 2, $59,477.

Christenson Bros., Depts. 1 and 2, $61,837.

Masow & Morrison, Depts. 1, 2 and 6, $64,987.

Ward & Goodwin, Depts. 1, 2, 3, 4, 5, 6 and 7, $95,900.

Harvey A. Klyce, Depts. 1, 2, 3, 4, 5, 6, 7, 8, $94,437; Depts. 1, 2, 4, 5, 6, 7 and 8, $82,137; Dept. 1, $23,800; Dept. 2, $31,-456.

White & Gloor, Dept. 1, $26,889.

Anderson & Ringrose, Dept. 1, $27,-845; Dept. 2, $34,800.

Mealy & Collins, Dept. 1, $22,960.

Charles B. Hadley, Dept. 1, $26,890.

J. E. Gilson, Dept. 1, $22,889.50.

W. D. Henderson, Dept. 2, $33,962.

Christensen Bros., Dept. 2, $35,712.

A. Wendering, Dept. 2, $36,750.

Peter N. Schmidt, Dept. 2, $34,478.

Kerr & McLean, Dept. 2, $36,985.

M. P. Mortenson, Dept. 2, $37,980.

Val Franz & Son, Dept. 2, $33,710.

George Reichley & Sons, Dept. 2, $37,-898.

Stockholm & Allyn, Dept. 2, $38,777.

Delanoy & Randlett, Dept. 2, $35,440.

Schrader Iron Works, Dept. 3, $11,800.

Western Iron Works, Dept. 3, $12,787.

William F. Wilson Co., Dept. 4, $7,000

J. E. O'Mara, Dept. 4, $7,471.

J. B. Cruz, Dept. 4, $7,158.

Frederick W. Snook Co., Dept. 4, $7,636.

Adolph Felthammer, Dept. 4, $7,994.

Herman Lawson, Dept. 4, $7,290.

Carl T. Doell, Dept. 4, $8,168.

Carl E. Strom Dept. 5, $4,182 (add $100).

Central Electric Co., Dept. 5, $4,700 (add $200).

Decker Electric Co., Dept. 5, $4,517.

George A. Sitman, Dept. 5, $4,495 (add $211).

McGruer Co., Dept. 6, $6,122.

Greenbank Plastering Co., Dept. 6, $5,657.

William Makin, Dept. 6, $5,855.

James F. Smith, Dept. 6, $5,785.

George Dixon, Dept. 6, $5,425.

The Tozier Co., Dept. 7, $3,650.

I. R. Kissell, Dept. 7, $4,500.

D. Zelinsky, Dept. 7, $2,985.

Herman Lawson, Dept. 8, $9,960.

W. Morgan & Co., Dept. 8, $9,200.

Scott Co., Dept. 8, $10,360.

J. C. Hurley, Dept. 8, $8,260.

Ideal Heating & Eng. Co., Dept. 8, $7,966.

Howard S. Williams (bid received two minutes late) Depts. 1, 2 and 8. $73,200.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET IMPROVEMENTS—$8,998.-07. Salinas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. At the last meeting of the City Council plans and specifications for the improvement of Front street were adopted, and bids were ordered called. Front street will be improved from the south line of Alisal street to a point 50 feet north of the northeast corner of Front and Summer streets, with a hydraulic base concrete and asphalt screening surface, with concrete curbing, every intersection being included.

RESIDENCE — 1 story and base, frame. Cost not stated. Atherton, San Mateo Co., Cal. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. George S. Fife. Working drawings have been completed for a magnificent summer home to be erected at the junction of the Middlefield Road and Marsh avenue. The building will cover a ground area of 125 feet frontage by 80 feet in depth. The house will be one-story in height and built around a beautifully developed open patio, which will be 42 by 70 feet. The patio will contain a large fountain and sunken garden. All rooms, of which there will be twenty, will have access to the patio, except those in the service portion of the house. Entire interior of the home will be finished in selected woods and is designed along very simple lines. Plans provide for five bath rooms equipped with the highest grade of plumbing fixtures. Both the living room and dining room will have open fire places, 12 feet wide, built of rug brick. A hot water circulating system will be installed. Exterior of the dwelling will be covered with cemtnt plaster. Roof will be of shingles, rolled hips and ridges. Work will be underway by May 5th.

RESIDENCE—1 and 2 story and base, frame, $10,000. Pebble Beach, Santa Cruz Co., Cal. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owner's name withheld. Will contain ten rooms and two baths, sleeping porch and conservatory. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile and stone. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $12,000. Santa Cruz, Santa Cruz Co., Cal. Architect, George McCrea, First National Bank Bldg., Oakland. Owner, Mrs. A. H. Munsell, Boston. Designed for a country home and will contain twelve rooms, three baths and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile and equipped with showers. Exterior covered with cement plaster. Plans being prepared and figures to be called for within ten days.

SCHOOL—1 story and base, hollow tile, $14,000. Redwood City, San Mateo Co., Cal. Architect, N. W. Sexton, Merchants' National Bank Bldg., S. F. Owners, Redwood City School District. Five sets of figures were received for the construction of the new school building. All bids were in excess of the amount available for construction and were rejected. A complete list of the figures received will be found under the heading of San Jose and the Santa Clara Valley in this issue. Plans will be revised and new bids called.

JAIL—2 story and base, brick, concrete and steel, $60,000. Redwood City, San Mateo Co., Cal. Architect, W. H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Bids will be opened on June 5th for the construction of the new jail building. Construction will be fireproof. There will be an office for the sheriff, separate wards for males and females and guard room. Interior finish pine and cement plaster. Steam heat, hot water system, vacuum cleaning and oil burning equipment. Special jail equipment to be let in separate contract. Exterior faced with cement plaster. Plans can be secured from the architect. An official proposal appears in another column of this issue.

Contracts Awarded.

HIGHWAY CONSTRUCTION — $22,-923.10. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. Contractor, W. A. Dontanville, R. F. D. box 405, Pasadena. Contract price, $22,923.10.

Receive Figures For Redwood City School.

All Bids Rejected By School Trustees As Being in Excess of Amount Available For Construction.

REDWOOD CITY, San Mateo Co., Cal. April 28th.—Five sets of figures were opened by the Board of Education at last night's meeting for the construction of the new school building, designed by Architect N. W. Sexton of San Francisco. All figures were in excess of the amount available for construction and were rejected. Plans will be revised and new figures will be called.

Following is a complete list of the bids received:

Redwood City School.

Bert T. Owsley	$19,383
Weeden Bros., Menlo Park	19,791
Harvey A. Klyce	20,529
Thomas Elam & Son	20,900
Morrison Bros., Santa Clara	22,600

MARIN, CONTRA COSTA AND SONOMA COUNTIES

RESIDENCE — 2 story and base, frame, $10,000. Napa, Napa Co., Cal. Architect, Charles Peter Weeks, Mutual

Bank Bldg., S. F. Owner, Myrvin Hollinger. Designed for a country home and will contain ten rooms, two baths and sleeping porch. Garage and other outbuildings to be erected. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—2 story and base, frame and concrete, $35,000. Vallejo, Solano Co., Cal. Architect, Smith O'Brien, Humboldt Bank Bldg., S. F. Owners, Roman Catholic Church. Designed for a parochial school, and will contain a number of class rooms, chapel and office. Interior finish pine with maple floors in the class rooms. Central heating system, probably hot air. Vacuum cleaning will be installed. Exterior faced with cement plaster. Preliminary plans only have been prepared.

SCHOOL ALTERATION — 3 story, frame. Cost not stated. Crockett, Contra Costa Co., Cal. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Crockett High School District. Work will include extensive repairs to the exterior plastering and some minor interior changes. Plans are being prepared.

TRACT DEVELOPMENT—Brick and frame, $200,000. Brentwood, Contra Costa Co., Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Security Realty Co., Monadnock Bldg., S. F. The owners are developing a large tract of agricultural land which will be subdivided into small farms and town lots. A large number of dwellings will be erected. Plans also provide for an administration building, implement barns, garage, water system and irrigation plant. Plans for the ranch buildings will be prepared later.

Contracts Awarded.

WATER PIPE AND VALVES—Cost as follows. Cloverdale, Sonoma Co., Cal. Engineer, City Engineer, Cloverdale. Owners, City of Cloverdale. Contractor, A. W. Garrett, Healdsburg, 1900 feet of cast iron pipe. Contract price, $2,146.60. O. C. Williams, Cloverdale, laying pipe. Contract price, $1 067.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owners, Hart and Buwaldo. Location, East Fresno. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

IRRIGATION SYSTEM — $400,000. Bakersfield, Kern Co., Cal. Engineer's name not given. Owners, Mojave Mutual Land and Water Co., S. F. The Mojave Mutual Land and Water Co. of San Francisco has applied to the State Water Commission for permission to appropriate all the water in Oak Creek watershed, including all the waters of Oak Creek, Milk Creek springs, and all the run-off and flood waters, not less than 70 cubic feet per second for purposes of irrigation. The application sets forth a ditch 7½ miles long to be known as the Mojave Plain ditch. There is a dam 100 feet high, 600 feet on top and 300 feet on bottom built of concrete with wasteway around dam. There is a proposed storage capacity of 50,000 acre feet. The land to be irrigated consists of some 61,440 acres in Kern County.

STREET IMPROVEMENTS—Cost not stated. Porterville, Tulare Co., Cal. Engineer, City Engineer, Porterville. Owners, City of Porterville. The City Trustees have ordered plans and specifications prepared for the paving of all approaches leading into the city. The plans will provide for the paving of the approaches to the city from the city limits to the downtown paving, 20 feet wide, done so as to permit future widening. Bids will be called for shortly on this work.

SCHOOL—1 story and base, frame. $15,000. Fresno, Fresno Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, City of Fresno. Location, Bullard Tract. Will contain two class rooms and a large auditorium. Interior finish pine with maple floors. Central heating system. Modern school plumbing. Brick foundation. Exterior covered with cement plaster on metal lath. Plans being completed and figures to be called for shortly.

SCHOOL—1 story and base, brick and frame. Cost not stated. Bakersfield, Kern Co., Cal. Architect, Orville L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Designed for a grammar school and will contain class rooms and an assembly hall. Interior finish pine with maple floors in the class rooms. Central heating system. Modern school plumbing and slate blackboards. Exterior covered with pressed brick and cement plaster. Plans complete and figures being taken. Bids open on May 15th at 9:30 a. m. Plans can be secured from the architect.

SCHOOL BUILDINGS—1 and 2 story, concrete and frame, $60,000. Taft, Kern Co., Cal. Architect, Oroville L. Clark, Brower Bldg., Bakersfield. Owners, Taft School District. Bids are now being received for furnishing all materials and labor necessary to install and complete the group of buildings, consisting of one main building, one manual arts building, and one domestic science building. Plans are now being issued to contractors desiring to bid on the erection of the buildings by Architect Clark. Bids will be received up to the hour of 2 o'clock p. m. on May 5th at the office of W. S. Lierly, Secretary of the Board of High School Trustees. Bids will also be received at the same time for the furnishing of all wood working machinery for the manual training department of the school, according to plans prepared by Architect Clark. Further information may be had from the architect.

STORES AND ROOMS—2 story and base, brick, $10,000. Visalia, Tulare Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Gross & Lillie. Location, Garden and Center streets. Will contain stores on the first floor and a number of single rooms and baths on the second floor. Interior finish pine and redwood. Hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 1 story and base, frame. Cost not stated. Merced, Merced Co., Cal. Architects, Butler Bros., Mason Bldg., L. A. Owner, J. B. Hall. Will contain twelve rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HOSPITAL WARD—1 story, concrete. Cost not stated. Bishop, Inyo Co., Cal. Architect's name not stated. Owners, Inyo County. The ward will be designed for contagious cases. Interior finish pine and redwood. Central heating system extended from present plant. Exterior faced with cement plaster. Plans complete and figures being taken.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

SCHOOL—1 stor yand base, hollow tile and brick $15,000. Anderson, Shasta Co., Cal. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Anderson School District. Plans will be prepared for this building as soon as bonds are voted. There will be four class rooms. Further mention will be made of this work.

HIGHWAY CONSTRUCTION — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received until May 9th at 1:30 p. m. for clearing a portion of the right-of-way for the Lord-Ellis road near Blue Lake in Road District No. 3.

ROAD IMPROVEMENT — Cost not stated. Auburn, Placer Co., Cal. Engineer, Town Engineer, Auburn. Owners, Town of Auburn. The Auburn City Trustees have called for bids for the grading of the Auburn-Newcastle road to connect with the State highway. Plans may be had from the City Clerk at Auburn.

STREET IMPROVEMENT—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. A big street improvement job is planned by the City Commissioners in East Stockton. At the last meeting resolutions of intention were approved calling for sealed bids which must be in by May 5th. The contemplated work includes the district from East street to Hazel and from Fair Oaks avenue to Sonora street, and calls for asphalt macadam together with curbs, gutters and concrete sidewalks. Plans may be had from the City Clerk.

ASPHALT PLANT—Cost not stated. Lodi, San Joaquin Co., Cal. Engineer, City Engineer, Lodi. Owners, City of Lodi. At the last meeting of the City Council the City Clerk was instructed to advertise for bids for a paving plant with a capacity of from 80 to 100 cubic yards of asphalt per day. A concrete mixer is also included in the call for bids, which will close May 15th. Plans may be had from the City Clerk.

ROAD CONSTRUCTION — Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be received until May 4th at 10 a. m. for building and grading new road in Capell, from Berryessa road down the valley to Galbreath's.

STREET PAVING—Cost as follows. Woodland, Yolo Co., Cal. Engineer, City Engineer, Woodland. Owners, City of Woodland. At the last meeting of the City Council bids for paving north First and north Second streets were opened. Two firms bid on the work, Clark & Henery, Ochsner Bldg., Sacramento, being the lowest bid with a bid of 12.2c a square foot for the Warrenite pavement. The other bid was 13c a square foot. It is probable that Clark & Henery will be awarded the contract.

STREET IMPROVEMENT—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Bids will be opened on May 5th for the paving, grading, construction of sidewalks and curbs on Eugenia street, from the south line of Market street to the north line of Washington street, and from the south line of Washington street to the north line of Lafayette street, and from the south line of Sonora to boundary of H. P. Jensen's Addition to Stockton. Delia street, from Fair Oaks avenue to the south line of said H. P. Jensen's Addition to Stockton. Locust street, from the south line of Fair Oaks avenue to the south line of East Church street. Cedar street, from the south line of Fair Oaks avenue to the north line of East Lafayette, and from the south line of East Lafayette north to East Sonora street and from the south line of East Sonora street to the north line of East Church street. Market street, from the east line of East street to the west line of Della street. Washington street, Lafayette street and Sonora street, each from East street to the west line of Della street, and from the east line of Della street to th west line of Locust street. East Washington street from the east line of Locust street to the west line of Cedar street. East Lafayette street, East Sonora street and East Church street, each from the east line of Locust street to the west line of Hazel avenue.

WEIR CONSTRUCTION — Steel and concrete, $460,000. Sacramento, Cal. Engineer, City Engineer Miller, Sacramento. Owners, City of Sacramento. Bids have been ordered received by the City Commission for the construction of the proposed Sacramento weir. Bids close May 23rd. The weir is the spillway to be constructed along the west bank of the Sacramento River near Bryte's Bend. It will afford an outlet for the Sacramento River when the water reaches a danger point into the Sacramento By-pass, which connects with the Yolo By-pass. The weir will be 2,185 feet long, and the estimated cost is $460,000, according to City Engineer Miller. The city has now $291,000 on hand and the State owes $275,000, which is to be repaid when the money the city has is all expended. The first unit which will be built with the money the city has in the treasury will consist of the weir proper and the railroad bridge. Plans may be had from the City Clerk.

APARTMENT HOUSE AND STORE—3 story and base, $20,000. Stockton, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, T. F. Walsh. Location, southwest corner of Weber avenue and Aurora street. Will contain stores on the first floor besides the entrance. Upper floor arranged for two, three and four room apartments. Interior finish pine and white enamel. Hardwood floors. Patent store fronts and marble bases. Gas steam radiators and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans being prepared.

RESIDENCE — 2 story and base, frame, $5,000. Sacramento, Cal. Architect, Alex. Willoner, 813 J street, Sacramento. Owner, C. L. Knight. Location, North Sacramento. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $6,000. Stockton, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, C. J. Ryland, chief draftsman with Ralph P. Morrell. Location, southwest corner of Grant and Jefferson. Will contain four modern flats of four and five rooms. Interior finish pine and white enamel. Some hardwood floors. Gas steam radiators. Bath rooms tile. Automatic water heaters. Six wall beds. Exterior covered with rustic and brick veneer. Plans being prepared.

Contracts Awarded.

BRIDGE—Steel and reinforced concrete, $100,425. Sacramento, Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Contractors, Mercer-Fraser Co., Eureka. Contract covers construction of the Highway bridge over the Eel River. Contract price, $100,425.

STREET IMPROVEMENT—Cost as follows. Napa, Napa Co., Cal. Engineer, Town Engineer, Napa. Owners, Town of Napa. Contractor, George Errington, Napa, improvement of Pine street. Contract price, $2,145.14. F. A. Burge, Napa, improvement of Laurel street. Contract price, $2,372.65.

LOS ANGELES & SOUTHERN CALIFORNIA.

BRIDGES—Steel and concrete. Cost not stated. Riverside, Riverside Co., Cal. County Surveyor, Riverside. Owners, Riverside County. At the last meeting of the County Supervisors the County Surveyor was instructed to prepare plans and specifications for the bridge connecting Pedley and Arlington, for the Barnett bridge at Temecula and the Pauba bridge. The two remaining spans of the West Riverside bridge will be removed and incorporated into the Pauba bridge. Bids will be called for shortly on this work.

BRIDGE REPAIRS—Steel and concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. The County Surveyor has been instructed to prepare plans and specifications for the rebuilding of the south approach to the Saticoy bridge which was washed out by last winter's storms.

HIGHWAY CONSTRUCTION — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Plans and specifications for the Ventura to La Crosse road, the first stretch of the Ventura-Nordhoff road, have been approved by the Board of Supervisors and bids were ordered advertised for, to be received up to 11 a. m. of May 11th.

HIGHWAY CONSTRUCTION — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to 11 a. m. of May 13th, 1916, for improving Division 6, Section 1, Ventura to La Crosse road, in accordance with county highway plans and specifications. The work will consist of grading and paving with concrete 4 inches thick and 16 feet wide 6.34 miles of road and will require 17,720 cubic yards of excavating, 34,490 linear feet of shaping and rolling for road ben, 6,650 cubic yards of Class B concrete for pavement, 200 yards of Class B concrete for culverts, etc., 576 feet of corrugated iron pipe, 12,000 pounds of reinforcing steel, 3,000 board feet of timber bulkhead, etc.

WATER SYSTEM REPAIRS AND TUNNEL — Cost not stated. Hemet, Riverside Co., Cal. Engineer, H. Hawgood, H. W. Hellman Bldg., L. A. Owners, Lake Hemet Land and Water Co. Bent Bros. Construction Co., Central Bldg., L. A., have the contract to reconstruct pressure pipe line and to drive a new tunnel in the mountains about seven miles from Hemet for the Lake Hemet Land and Water Co. There will be about 1,400 feet of 12 to 30-inch cement and reinforced concrete pipe lines, part of which will be under pressure as siphons. The tunnel will be 265 feet in length through solid rock.

STREET PAVING—Cost not stated. Venice, Los Angeles Co., Cal. Engineer, City Engineer, Venice. Owners, City of Venice. Bids will be received by the City Clerk up to 4 p. m. of May 15th for improving Venice Boulevard, from Brenta Place to Penmar avenue, etc., by constructing asphaltic concrete pavement; and for grading of Walgrove avenue, from Venice Boulevard to the northerly city limits, in accordance with plans and specifications on file at the office of the City Engineer. Certified check for 10 per cent required. C. Y. Burns is the City Clerk.

SCHOOL—1 story and base, reinforced concrete, $27,000. Placentia, Orange Co., Cal. Architect, Frederick H. Eley, Register Bldg., Santa Ana. Owners, Placentia School District. Will contain six class rooms, manual training and domestic science rooms, office and assembly hall. Interior finish pine with maple floors in the class rooms. Steam heat and oil burning furnace, vacuum cleaning and modern school plumbing will be installed. Exterior will be faced with cement plaster. Plans are being prepared.

SCHOOL—1 story and base, hollow tile, $25,000. La Canada, Los Angeles Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owners, La Canada School District. Will contain four class rooms, an auditorium seating 300 people, library and office. Interior finish pine with maple floors. Central heating system. Clay tile roof. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—1 story and base, brick or hollow tile, $55,000. Oxnard, Ventura Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owners, Oxnard School District. Will contain eight class rooms, assembly hall and library. Fireproof corridors. Pine interior trim and maple floors. Steam heat, oil burning equipment. Showers in locker

ns. Clay tile roof. Exterior faced
cement plaster. Plans complete
figures being taken.
PARTMENT HOUSE—3 story and
e, brick. Cost not stated. Pasadena,
Angeles Co., Cal. Architect, A. C.
lee, Chamber of Commerce Bldg.,
adena. Owner's name withheld.
l cover an area of 60 by 153 feet
will contain 50 suites of two and
e rooms. Interior finish pine, hard-
d and white enamel. Hardwood
rs. Steam heat and automatic ele-
or. Hot water supply. Bath rooms
Wall beds. Marble and tile wain-
. Exterior faced with pressed
k. Plans being prepared.
OSPITAL WARDS—2, 1 story, con-
e and frame, $25,000. Los Angeles,
Architect, George Low, Hall of
ords, L. A. Owners, Los Angeles
nty. Plans have been completed
figures are now being taken for
structing two wings, each 27 by 110
t, at the County Farm. Bids will
opened on May 15th. Plans can be
ured from the architect or County
rk.
HEATRE AND LODGE HALL—2
ry and base, brick, $50,000. Long
ch, Los Angeles Co., Cal. Architect,
Alfred Anderson, Moody Bldg., Long
ch. Owner, E. W. Bollman. Loca-
n, 30 Pine street, covering an area
50 by 150 feet. Main floor will con-
n the theatre proper and upper floor
anged for lodge halls. Interior fin-
pine and ornamental plaster. Steam
t and oil burning system. Patent
re fronts. Exterior faced with
ssed brick. Plans being completed.
BAKERY BUILDING—2 story and
se, brick. Cost not stated. Los An-
es, Cal. Architect, Frank M. Tyler,
ick Bldg., L. A. Owners, Davis
ndard Bread Co. Location, Beaudry
d Mignonette streets, covering an
a of 150 by 150 feet. Will contain
kery, shipping department and of-
es. Interior finish pine. Consider-
ie tile. Special machinery. Exterior
ed with pressed brick. Plans com-
te and figures being taken by the
ners.

Contracts Awarded

PAVING, SEWERS AND LIGHTING
STEM—$46,916.65. Los Angeles, Cal.
gineer, City Engineer, Los Angeles.
vners, City of Los Angeles. Con-
actor, George R. Curtis, 552 South
Louis street, L. A. Contract price,
6,916.65.
RESIDENCE — 2 story and base,
llow tile. Cost not stated. Oak
noll, Los Angeles Co., Cal. Architect,
eginald D. Johnson, Staats Bldg., Pas-
lena. Owner, Briggs C. Keck. Con-
actors, C. M. Hansen & Son, 236
ranklin street, Pasadena. Contract
ice not stated.
HIGHWAY CONSTRUCTION — $14,-
1.05. Los Angeles, Cal. Engineer,
ounty Surveyor, Los Angeles. Owners
os Angeles County. Contractors,
hite & Gaskill, Long Beach. Con-
act price, $14,191.05.
SIDEWALKS, ETC.—$40,515. Beau-
ont, Riverside Co., Cal. Engineer,
own Engineer, Beaumont. Owners,
own of Beaumont. Contractors, The
ighway Construction Co., First Na-
onal Bank Bldg., Highland. Contract
rice, $40,515.
GARAGE—5 story and base, rein-
orced concrete. Cost not stated. Los
Angeles, Cal. Architects, Morgan,
Walls & Morgan, Van Nuys Bldg., L. A.
Owner, M. H. Newmark, leased to J. W. Leavitt. Contractors, Leonardt & Peck, H. W. Hellman Bldg., L. A. Contract price not stated.

LIBRARY—1 story and base, brick, $23,304. East Hollywood, Los Angeles Co., Cal. Architect, C. H. Russell, Union League Bldg., L. A. Owners, City of Hollywood. Contractor, C. Karsehoom, 1445 Dana street, L. A. Contract price, $23,304.

PORTLAND AND OREGON

PAVING AND VIADUCTS — Reinforced concrete, $200,000. Astoria, Ore. Engineer, City Engineer, Astoria. Owners, City of Astoria. Bids have been ordered received for constructing reinforced concrete viaducts and pavements in Astoria, of which the estimated cost is $200,000. The job is divided into four sections. Plans may be had from the City Clerk.

CITY HALL—2 story and base, concrete block, $60,000. Montpelier, Idaho. Architects, Boyer & Rogers, Pocatello, Idaho. Owners, Montpelier. Will contain the various city offices and an auditorium 33 by 57 feet. Building will cover an area of 76 by 78 feet. Interior finish pine and hardwood. Some hardwood floors. Steam heat. Exterior faced with cement plaster. Plans complete and figures being taken.

POST OFFICE—2 story and base, brick, stone and steel. Roseburg, Ore. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Stebbinger Bros., Portland, presented the low figure for the construction of the new federal building and will probably be awarded the contract. The low figure is $84,045.

STORES AND OFFICES—3 story and base, reinforced concrete, $30,000. Portland, Ore. Architects, Houghtaling & Dougan, Henry Bldg., Portland. Owners, Manley & Manley Auto Co. Location, 11th and Burnside streets, covering an area of 100 by 100 feet. Construction fireproof. Main floor will be arranged for sales rooms. Upper floors for offices. Interior finish pine and hardwood with some ornamental plaster. Steam heat and vacuum cleaning. Metal window sash and frames. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded

GARAGE—2 story and base, brick, $20,000. Portland, Ore. Architect, C. A. Duke, Failing Bldg., Portland. Owners, Chanzlon & Lyon. Contractors, Luck & Dangerfield, 281 Broadway, Portland. Contract price, $20,000.

STORES AND LOFTS—2 story and base, brick, $15,000. Salem, Ore. Architect, George M. Post, Salem. Owner's name withheld. Contractor, P. H. D'Arcy, Salem. Contract price, $15,000.

STORES AND SHOPS—1 story and base, brick, $85,000. San Francisco. Architect, Benj. G. McDougall, Sheldon Bldg., S. F. Owner, Benj. G. McDougall. Contractors, E. Leiter & Sons, Call Bldg., S. F. Contract price, $85,000.

SEATTLE AND WASHINGTON

APARTMENT HOUSE—3 story and base, brick, $70,000. Seattle, Wash. Architect, none. Owner, J. H. Baehr, 1809 Nob Hill avenue, Seattle. Location 1216 1st avenue. Will contain a number of two, three and four room apartments with wall beds and private baths. Interior will be finished in pine and hardwood veneer. Hardwood floors. Steam heat, hot water system and oil burning furnace. Bath room tile. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and work to be done by Day Labor.

SCHOOL—2 story and base, brick, $60,000. Seattle, Wash. Architect, Edgar Blair, 1426 Jackson street, Seattle. Owners, City of Seattle. Building will be in the nature of an addition to the Queen Anne School, located at the corner of Sixth avenue and Lee streets. Will contain six class rooms, manual training and domestic science departments. Interior finish pine with maple floors. Steam heat, vacuum cleaning and modern school plumbing. Exterior faced with pressed brick. Plans complete and figures being taken. Bids close May 8th.

MARKET—2 story and base, reinforced concrete, $60,000. Seattle, Wash. Architect, Charles Haynes, Mehlhorn Bldg., Seattle. Owners, Westlake Market Co. Location, Virginia, Westlake and 6th avenue, covering an area of 347 by 120 by 363 feet. Other than the fact that the building will be the most modern market structure in Seattle, details cannot be given. Exterior will be faced with cement plaster. Plans are being prepared.

Contracts Awarded

APARTMENT HOUSE—5 story and base, mill construction, $65,000. Seattle, Wash. Architect, none. Owners, Logan Commercial Co., 811 American Bank Bldg., Seattle. Contractors, The Rainier Construction and Engineering Co., 451 Stuart Bldg., Seattle. Contract price, $65,000. Note: Contractors are now taking subfigures.

GARAGE—1 story and base, concrete block, 2,300. North Yakima, Wash. Architect, W. W. de Veaux, North Yakima. Owners, Yakima County. Contractor, A. Stedman. Contract price, $2,300.

WAREHOUSE—1 story and base, hollow tile, $5,000. North Yakima, Wash. Architect, W. W. de Veaux, North Yakima. Owners, Growers Service Co. Contractor, J. H. Corbett, North Yakima. Contract price, $5,000.

INCREASED MANUFACTURE OF SAND-LIME BRICK.

The sand-lime brick industry is becoming more firmly established in the United States, and many operators are reported to be enlarging the capacity of their plants in anticipation of increased business in 1916, according to the United States Geological Survey. A report soon to be issued by the survey will show that sales of this product in 1915 were 179,643,000 brick, valued at $1,135,101, which was an increase of 7,014,000 brick or 4 per cent in quantity and of $76,592 or 7 per cent in value over 1914.

ROOFING MATERIAL MACHINERY WANTED.

A Volodimiroff, 415 Page Ave., Lyndhurst, New Jersey, writes to this journal that he has been commissioned by the Russian Government to purchase machinery to manufacture a roofing material out of cement and postboard to resemble corrugated iron, and wants address of manufacturers of such machinery.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1199	Orange Blossom	Whitton	2000
1200	Smith	Smith	2900
1201	Warden	Warden	1900
1202	Johnson	Johnson	3500
1203	Farrar	Bevier	3000
1204	Greely	Greely	2000
1205	Linebaugh	Linebaugh	4000
1206	Pehrson	Pehrson	1200
1207	Sonntag	Wagy	1500
1208	Hefferman	Hefferman	1400
1209	Shoong	Kragen	600
1210	McCollom	MacKillop	1500
1211	Webb	Webb	1500
1212	Schumacher	Weber	970
1213	Johnson	Dunn	1295
1214	Levin	Damico	1250
1215	Painton	Petersen	8000
1216	Torre	Rosina	7690
1217	S F Warehouse	Frasier	24442
1218	Quinn	Ahlbach	3984
1219	Kiler	Conserv Bldg	6000
1220	Same	Same	5000
1221	Brzuza	Brzuza	850
1222	Same	Same	850
1223	Monson	Monson	1900
1224	Same	Same	1900
1225	Sweeney	Sweeney	4000
1226	Buckbee	Swenson	400
1227	Sinates	Sinates	400
1228	Heyman	Heyman	6000
1229	Thorup	Thorup	2800
1230	Healing	Healing	950
1231	Lowney	Lowney	400
1232	Power	Marisch	500
1233	Webb	Webb	1500
1234	Peterson	Peterson	10000
1235	Ger Evang	Kerr	3960
1236	Same	Natl Elec	435
1237	Same	Snook	1056
1238	Same	Scott	470
1239	Hirsch	Peterson	11289
1240	Shubin	Rudometkin	500
1241	Bernhard	Glahn	400
1242	Welch	Scully	500
1243	Schumacher	Weber	700
1244	Lerer	Franz	500
1245	Public Drug Co.	Roller	400
1246	Schrann	Schrann	850
1247	Hill	Hill	500
1248	Hunt	Hurley	1000
1249	Berthienne	Owner	400
1250	Allan	Allan	5000
1251	Allan	Allan	5000
1252	Allan	Allan	5000
1253	Brooke	Angell	9500
1254	Ward	Mager	5760
1255	Orange Blossom	Barnett	855
1256	Hansen	McCormick	5850
1257	Connell	Nelson	5933
1258	Camphell	McLelland	5666
1259	Schlesinger	Nelson	3250
1260	Loisille	Loisille	400
1261	Keenan	Keenan	2500
1262	Hasselbrock	Klahn	400
1263	Kellam	Leiter	600
1264	Anglade	Chase	400
1265	McCarthy	McNabb	4850
1266	Rialto	Novelty Elec	400
1267	Rosenkrans	Allen	1950
1268	Lewis	Harrington	4000
1269	Fredericks	Devencenzi	4000
1270	Neil	Neil	1800
1271	Wittrock	Hindricks	1875
1272	Crocker	Crocker	2000
1273	Thompson	Callaghan	2000
1274	Rodney	Rodney	400
1275	Everett	Montroul	2000
1276	Cames	Van Emon	1475
1277	Norton	Schroder	8527
1278	Kron	Lapham	5300
1279	Scheppler	Wade	1348

(Correction in Contractor's Name.)

ALTERATIONS

(971) NO. 1148 GREEN. Cement plaster exterior, new cornice, etc.
Owner.....Miss Mary Scully, Premises.
Architect ...John H. Powers, 460 Montgomery, San Francisco.
Contractor..Wm. L. Terry, 1456 Willard San Francisco.
COT, $500

ALTERATIONS

(1199) NW FILLMORE & FRANCISCO Move building from Exposition Site and alter same.
Owner.....Orange Blossom Inc., 47 Kearny, San Francisco.
Architect ...G. A. Lansburgh, 709 Mission, San Francisco.
Contractor..Fred Whitton, 251 Kearny, San Francisco.
COST, $2000

FRAME DWELLING

(1200) N SAN YSABEL 300 E San Jose Ave. One-story and basement frame dwelling.
Owner.....H. & W. Smith, 35 Delano Ave., San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING

(1201) N ROLPH 105 W Munich. One and one-half-story and basement frame dwelling.
Owner.....Albin Warden, 430 Edinburgh, San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME DWELLING

(1202) W PARKER AVE 381-7 N Geary. Two-story and basement frame dwelling.
Owner.....Johnson & Johnson, 844 14th, San Francisco.
Architect ...None.
Day's work. COST, $3500

FRAME DWELLING

(1203) SW ATHENS & GENEVA. One story and basement frame dwelling.
Owner.....H. E. Farrar, 1744 Bryant, San Francisco.
Architect ...None.
Contractor..C. D. Bevier, 60 Cordova, San Francisco.
COST, $2000

ALTERATIONS

(1204) W SEVENTH AVE 222 N Geary. Alter and add to flats.
Owner.....John Greely, 556 8th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2000

ADDITIONS

(1205) W TWENTIETH AVE 175 N Anza. Add to and alter residence.
Owner.....Chas. A. Linebaugh, 1860 Geary, San Francisco.
Architect ...None.
Day's work. COST, $4000

(1206) W MOULTRIE 25 N Hampshire One-story and basement frame dwlg.
Owner.....G. I. Pehrson, 657 Broderick, San Francisco.
Architect ...None.
Day's work. COST, $1200

ALTERATIONS

(1207) NO. 2755-57 SEVENTEENTH. Alter and add to flats.
Owner.....Lincoln Sonntag, 112 Market, San Francisco.
Architect ...None.
Contractor..M. S. Wagy, 322 Parnassus Ave., San Francisco.
COST, $1500

ADDITION

(1208) W NATOMA 105 S 14th. Add room to flats.
Owner.....Mary G. Hefferman, 59 Santa Marina, S. F.
Architect ...None.
Contractor..J. F. Hefferman, 59 Santa Marina, San Francisco.
COST, $1400

ADDITION

(1209) NO. 971 MARKET. Add mezzanine floor and new front.
Owner.....Joe Shoong & Co., 927 Market, San Francisco.
Architect ...Albert Lapachet, 110 Sutter, San Francisco.
Contractor..Louis Kragen, 743 Gough, San Francisco.
COST, $600

FRAME DWELLING

(1210) W FORTY-FIFTH AVE 200 N Cabrillo. One-story and basement frame dwelling.
Owner.....W. C. McCollom, 705 5th Ave., San Francisco.
Architect ...None.
Contractor..Alex W. MacKillop, 579 29th Ave., San Francisco.
COST, $1500

FRAME COTTAGE

(1211) N SANTA YNEZ 35 E Otsego. One and one-half-story and basement frame cottage.
Owner.....A. C. Webb, 164 Otsego, San Francisco.
Architect ...None.
Day's work. COST, $1500

(1212) E HAROLD AVE 450 S Bruce S 35xE 112-6. Alterations and additions, two-story addition to rear of present building.
Owner.....Martha Schumacher, 140 Harold Ave., S. F.
Architect ...None.
Contractor...A. Weber & C. Shaw, 218 Miramar Ave., S. F.
Filed Apr. 22, '16. Dated Apr. 20, '16.
Frame up $242.50
Brown coated 242.50
Completed and accepted..... 242.50
Usual 35 days..... 242.50
TOTAL COST, $970.00
Bond, $500. Sureties, Wm. McCauley and August Hans. Limit, 60 days. Forfeit, none. Plans and specifications filed.

RESIDENCE

(1213) W COOK 100 N Geary N 25x W 120. All work for one-story three-rooms and bath residence.
Owner.....Albert C. and May G. Johnson, 133 Blake, S. F.
Architect ...None.
Contractor..Ernest E. Dunn, 329 23rd Ave., San Francisco.
Filed Apr. 22, '16. Dated Apr. 19, '16.
Frame up $323.75
Brown coated 323.75
Completed and accepted..... 323.75

Usual 35 days..... $23.75
TOTAL COST, $1295.00
Bond, none. Limit, 90 days from April 25. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1214) NW COLE AND HAIGHT. Metal studs and plastering for alterations to Haight Street Theatre.
Owner.....S. H. Levin.
Architect...M. Matanovich, Hewes Bldg., San Francisco.
Contractor..Tony Damico, 887 Filbert, San Francisco.
Filed Apr. 22, '16. Dated Apr. 12, '16.
Brown coated $625.00
Completed and accepted..... 312.50
Usual 35 days..... 312.50
TOTAL COST, $1250.00
Bond, $625. Surety, F. C. Amoroso. Limit, forfeit, none. Plans and specifications filed.

FRAME FLATS
(1215) SE MISSION AND BRAZIL AVE All work for three-story frame stores and flats.
Owner.....H. R. and Emma J. Painton, 4798-A Mission, S. F.
Designer ...Antone Petersen.
Contractor..Antone Petersen, 844 Guerrero, San Francisco.
Filed Apr. 22, '16. Dated Apr. 1, '16.
Frame up $2000
Brown coated 2000
Completed and accepted..... 2000
Usual 35 days..... 2000
TOTAL COST, $8000
Bond, none. Limit, 100 days. Forfeit, $5. Plans and specifications filed.

FRAME APARTMENTS
(1216) SE UNION & TAYLOR E 27-6 xS 100. All work except lighting fixtures, shades, grading, concrete, tile walls in baths, terrazzo steps and plaster deafening for three-story and basement frame apartments.
Owner.....Giuseppe Torre, 863½ Union, San Francisco.
Architect...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..Clemente Rosina.
Filed Apr. 24, '16. Dated Apr. 22, '16.
Finished roof on.....$1920
Brown coated 1920
Completed and accepted..... 1920
Usual 35 days..... 1930
TOTAL COST, $7690
Bond, $3845. Sureties, Jos. A. Fiorio and M. C. Bricca. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

ADDITION
(1217) NW SPEAR AND FOLSOM 137-6x127-6. All work for addition to present building.
Owner.....The San Francisco Warehouse Co.
Architect...Wm. Knowles, Hearst Bldg., San Francisco.
Contractor..Frasier & Frasier, 180 Jessie, San Francisco.
Filed Apr. 24, '16. Dated Apr. 19, '16.
Rough concrete in place.....$2000.00
Brick work story high and 2nd floor joists of Spear street warehouse in..... 3000.00
2nd floor joists of Folsom street warehouse in and brick work of bonded warehouse up to bottom of roof girders..... 3000.00
3rd story of Folsom and Spear warehouse in..... 3000.00
Roof on both warehouses.... 3000.00
Accepted 4331.50
Usual 35 days..... 6110.50
TOTAL COST, $24,442.00
Bond, $12,221. Surety, The Aetna Accident & Liability Co. Limit, 90 days. Forfeit, $20. Plans and specifications filed.
NOTE:—1st report Apr. 19th, No. 1150

ALTERATIONS
(1218) W TENTH AVE 100 N Lawton W 120xN 25. All work except lighting fixtures and heating and shades for two-story frame residence and alterations and additions to present building.
Owner.....Mary Quinn, 1518 10th Ave., San Francisco.
Architect...Henry Shermund, Mills Bldg., San Francisco.
Contractor..A. Ahlbach, 107 Collingwood, San Francisco.
Filed Apr. 24, '16. Dated Apr. 17, '16.
Present building set in place and frame of new building up and roof on $996
Rough coat plaster on..... 996
Completed and accepted..... 996
Usual 35 days..... 996
TOTAL COST, $3984
Bond, $1992. Surety, Guardian Casualty & Guaranty Co. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

RESIDENCE
(1219) S PACHECO 42-6 E from NW Cor. Lot 5 Blk 2128, Forest Hill Court SW to a pt in Lot 6 dist 87-6 N Alton Ave W parallel with Alton to intr W Bdy Lot 6 NE to int S Pacheco E 42-6 Ptn Lots 5 and 6 Blk 2128, Forest Hill Court. All work except shades, light fixtures, papering, hardwood floors, inside painting, decorating, excavating, grading and concrete work for foundations for two-story and basement frame and plaster stucco residence.
Owner.....William H. Kiler, 200 Phelan Bldg., Sa nFrancisco.
Designer...C. A. Roberts and Louis Brouchard, Phelan Bldg., San Francisco.
Contractor..Conservative Bldg. & Investment Co., Phelan Bldg., San Francisco.
Filed Apr. 24, '16. Dated Apr. 12, '16.
Frame up and roof boards on... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $6000
Bond, none. Limit, 120 days from recording. Forfeit, $5. Plans and specifications filed.

RESIDENCE
(1220) COMG AT POINT IN LOT 3 Blk 2126 Forest Hill Court, dist 18.-771 SW from NE bdy line Lot 3 and 13.34 SE from NW bdy line Lot 3 NW to a point 6.67 SE from NW bdy line Lot 2 SW to NE Pacheco SE to int of a line drawn parallel with NW bdy line Lot 3 SW from beg NE to beg Ptn Lots 2 and 3 Blk 2126 Forest Hill Court. All work except shades, light fixtures, papering, hardwood floors, inside painting and decorating, excavating, grading and concrete work for foundations for two-story and basement frame and plaster stucco residence.
Owner.....William H. Kiler, 200 Phelan Bldg., Sa nFrancisco.
Designer...C. A. Roberts and Louis Brouchard, Phelan Bldg., San Francisco.
Contractor..Conservative Bldg. & Investment Co., Phelan Bldg., San Francisco.
Filed Apr. 24, '16. Dated Apr. 20, '16.
Frame up and roof boards on... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $5000
Bond, none. Limit, 120 days from recording. Forfeit, $5. Plans and specifications filed.

FRAME DWELLING
(1221) S ATHENS 225 N Russia. One-story and basement frame dwelling.
Owner.....Paul Brzuza, 106 Persia, San Francisco.
Architect...None.
Day's work. COST, $850

FRAME DWELLING
(1222) S ATHENS 200 N Russia. One-story and basement frame dwelling.
Owner.....Paul Brzuza, 106 Persia, San Francisco.
Architect...None.
Day's work. COST, $850

FRAME DWELLING
(1223) W DANVERS 145-1 S Corbett.
Owner.....F. Monson, 354 Sussex, San Francisco.
Architect...None.
Day's work. COST, $1900

FRAME DWELLING
(1224) W DANVERS 170-1 S Corbett. One-story and basement frame dwlg.
Owner.....F. Monson, 354 Sussex, San Francisco.
Architect...None.
Day's work. COST, $1900

FRAME DWELLING
(1225) E CHURCH 375 S Randall. Two-story and basement frame dwlg.
Owner.....Thomas Sweeney, 1387 Sanchez, San Francisco.
Architect...None.
Day's work. COST, $1000

ALTERATIONS
(1226) SW McALLISTER & LAGUNA Change front and alter for saloon.
Owner.....S. G. Buckbee, 27 Montgomery, San Francisco.
Architect...None.
Contractor..Swenson & Franzen, 145 Natoma, San Francisco.
COST, $100

CONCRETE WORK
(1227) SW BALBOA & LA PLAYA. Concrete work, etc., for waffle counter.
Owner.....J. Sinates, 713 17th Ave., San Francisco.
Architect...None.
Day's work. COST, $100

FRAME FLATS
(1228) SW LINCOLN WAY & IRVING. Two-story and basement frame (2) flats.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect...None.
Day's work. COST, $6000

FRAME RESIDENCE
(1229) E TWENTY-FOURTH AVE 50 N Balboa. One-story and basement frame residence.
Owner.....Jacob H. Thorup, 281 26th Ave., San Francisco.
Architect...None.
Day's work. COST, $2800

ALTERATIONS
(1220) NO. 3665 SACRAMENTO. New front and add to dwelling.
Owner.....Geo. and Emma Healing, 110 Jessie, San Francisco.
Architect ...None.
Contractor..Geo. Healing, 110 Jessie, S. F. COST, $950

ALTERATIONS
(1231) NO. 1382 MASONIC. Alter front and garage in basement.
Owner.....D. D. Lowney, Premises.
Architect ...None.
Day's work. COST, $400

ADDITIONS
(1232) NO. 1207 CLAYTON. Add porches, brick mantels and make minor additions.
Owner.....J. E. Power, Premises.
Architect ...None.
Contractor..Frank Marisch, 690 Van Ness Ave., San Francisco. COST, $500

FRAME DWELLING
(1233) N SANTA YNEZ 35 E Otsego. One and one-half-story and basement frame dwelling.
Owner.....A. C. Webb, 164 Otsego, San Francisco.
Architect ...None.
Day's work COST, $1500

FRAME APARTMENTS
(1234) NW NINTH AVE & CABRILLO. Three-story and basement frame (6) apartments.
Owner.....Elizabeth Peterson, 642 10th Ave., S. F.
Architect ...None.
Contractor..Gustav Peterson, 642 10th Ave., San Francisco. COST, $10,000

ALTERATIONS
(1235) W HOWARD 127-6 S 21st W 132-6xS 90. Carpenter, concrete, steel, roofing, plastering, mill work, glazing, blackboards, hardware, sheet metal, etc., for alterations and additions of two-story frame building into school and parish house.
Owner.....The German Evangelical Lutheran St. Johannes Congregation, 3126 22nd, San Francisco.
Architect ...Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..L. A. Kern, 3646 17th, S. F.
Filed Apr. 24, '16. Dated Apr. 21, '16.
Roofing completed, rustic on and window frames set.....$1000
Plastering, staircases and basement floor completed..... 1000
Completed and accepted..... 970
36 days after 990
TOTAL COST, $3960
Bond, $1980. Sureties, R. L. Kern and C. W. Mark. Limit, 90 days. Forfeit, none. Plans and specifications filed.

(1236) ELECTRIC WIRING ON ABOVE
Contractor..National Electric Co., 103 Turk, San Francisco.
Filed Apr. 24, '16. Dated ——.
Conduits and wiring in place....$200
Completed and accepted..... 126
36 days after..... 109
TOTAL COST, $435
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

(1237) PLUMBING ON ABOVE.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed Apr. 24, '16. Dated Apr. 21, '16.
Roughed in $400
Completed and accepted..... 392
36 days after..... 264
TOTAL COST, $1056
Bond, $528. Sureties, W. J. Foster and K. G. Haderle. Limit, 90 days. Forfeit, none. Plans and specifications filed.

(1238) STEAM HEATING WORK ON above.
Contractor..Scott Co., 243 Minna, S. F.
Filed Apr. 24, '16. Dated Apr. 21, '16.
Roughed in $117
Completed and accepted..... 235
36 days after..... 118
TOTAL COST, $470
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

RESIDENCE
(1239) LOT 19, LYON & HOAG'S SUB Baker's Beach Land Co. All work for two-story and basement frame and brick veneer residence.
Owner.....Mrs. Elizabeth M. Hirsch.
Architect ...Sidney B. & Noble Newsom, Nevada Bank Bldg., San Francisco.
Contractor..Alfred Peterson, 1201 19th, Oakland.
Filed Apr. 25, '16. Dated Apr. 22, '16.
Frame up $2822
Rough plastered inside and outside 2822
Completed and accepted..... 2822
Usual 35 days..... 2823
TOTAL COST, $11,289
Bond, $5644. Surety, Massachusetts Bonding & Insurance Co. Limit, 120 days from filing. Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(1240) NO. 930 RHODE ISLAND. Alter store for flats.
Owner.....John Shubin, Premises.
Architect ...None.
Contractor..John Rudometkin, 871 Rhode Island, S. F. COST, $500

FRAME GARAGE
(1241) SW CARL AND SHRADER. One-story frame garage.
Owner.....Peter D. Bernhard, 1001 Shrader, San Francisco.
Architect ...None.
Contractor..Hother Glahn, 517 Crocker Bldg., San Francisco. COST, $400

ADDITION
(1242) N JACKSON 87½ E Larkin. Add sleeping porch.
Owner.....Geo. F. Welch, Phelan Bldg., San Francisco.
Architect ...C. E. Gottschalk, Phelan Bldg., San Francisco.
Contractor..J. E. Scully, 2449 Larkin, San Francisco. COST, $500

ADDITION
(1243) NO. 140 HAROLD AVE. Add to dwelling, foundation, etc.
Owner.....Mrs. Schumacher, Premises.
Architect ...J. Cuthbertson.
Contractor..Weber & Shaw, 218 Miramar Ave., S. F. COST, $700

CONCRETE FOUNDATION
(1244) NW HARRISON & ELEVENTH Concrete foundation.
Owner.....Jos. Lerer, Premises.
Architect ...Herman & Schwartz, Nevada Bank Bldg., S. F.
Contractor..Val Franz & Son, 18 Stevenson, San Francisco. COST, $500

REPAIRS
(1245) NOS. 240-242 MARKET. Repair interior of store.
Owner.....Public Drug Co., 246 Market, San Francisco.
Architect ...None.
Contractor..Edwin Roller, 767 27th, San Francisco. COST, $400

ADDITION
(1246) NO. 235 TWENTY-SIXTH AVE. Add one room.
Owner.....C. Schrann, Premises.
Architect ...None.
Day's work. COST, $850

FRAME DWELLING
(1247) N FULTON 56-6 E 20th Ave. One-story and basement frame dwlg.
Owner.....Anthony Hill, 1419 Scott, San Francisco.
Architect ...None.
Day's work. COST, $500

ADDITION
(1248) NO. 115 ALPINE TERRACE. Add 3 rooms to dwelling.
Owner.....G. E. Hunt, Premises.
Architect ...None.
Contractor..P. J. Hurley, 124 Henry, San Francisco. COST, $1000

ALTER COTTAGE
(1249) E COOK 188-4 N Geary. Alter cottage.
Owner.....Francis C. Berthienne, Continental Hotel, S. F.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(1250) W TWENTY-EIGHTH AVE 306 N California. Two-story and basement frame dwelling.
Owner.....Allan & Co., 125 Sutter, San Francisco.
Architect ...Architectural Dept. Allan & Co., 125 Sutter, S. F.
Day's work. COST, $5000

FRAME DWELLING
(1251) W TWENTY-EIGHTH AVE 331 N California. Two-story and basement frame dwelling.
Owner.....Allan & Co., 125 Sutter, San Francisco.
Architect ...Architectural Dept. Allan & Co., 125 Sutter, S. F.
Day's work. COST, $5000

FRAME DWELLING
(1252) W TWENTY-EIGHTH AVE 281 N California. Two-story and basement frame dwelling.
Owner.....Allan & Co., 125 Sutter, San Francisco.
Architect ...Architectural Dept. Allan & Co., 125 Sutter, S. F.
Day's work. COST, $5000

(1253) SE CASTENADA AND DE SOTO being NW Cor. Lot 27 Blk 14 N 74 deg 2 min 24 sec E 100.145 N 10.781 S 67 deg 52 min 42 sec W 100 Lot 28 ptn 27 Blk 14, Forest Hill. All work for two-story and basement frame residence.
Owner.....Edith T. Brooke.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..E. J. Angell, 6443 Colby, Oakland.

ed Apr. 26, '16. Dated Apr. 24, '16.
rame up $2375
rown coated 2375
ompleted and accepted..... 2375
sual 35 days..... 2375
TOTAL COST, $9500
nd, $4750. Surety, Massachusetts
nding & Insurance Co. Limit, July 1
6. Forfeit, $10. Plans and specifi-
ions filed.

ICK MACHINE SHOP
54) S MINNA 355 E Second E 40x
80. All work for one-story brick
nachine shop.
ner.....Margaret Ward.
chitect ...Albert Schroepfer, 68 Post,
San Francisco.
ntractor..Mager Bros., 110 Jessie,
San Francisco.
ed Apr. 26, '16. Dated Apr. 14, '16.
Foundation in .....$ 800
Brick work up to roof trusses.. 1500
Completed and accepted..... 2020
Usual 35 days..... 1440
TOTAL COST, $5760
nd, $2880. Sureties, D. B. Macdonald
d Severin Mager. Limit, 60 days.
rfeit, none. Plans and specifications
ed.

NCRETE FOUNDATIONS, ETC.
255) NW FRANCISCO & FILLMORE
Concrete foundations and floor, in-
cluding all necessary excavations for
factory building.
vner.....Orange Blossom, Inc., 47
Kearny, San Francisco.
nstr. Manager ...Frederick Whitton,
251 Kearny, San Francisco.
ntractor..Barrett & Hilp, Sharon
Bldg., San Francisco.
iled Apr. 26, '16. Dated Apr. 13, '16.
Progressive payments of..... 75%
Usual 35 days.....Final payment
TOTAL COST, $855
ond, $427.50. Surety, Fidelity & De-
osit Co. of Maryland. Limit, 12 days
fter April 24, 1916. Forfeit, $2.10.
lans and specifications filed.

RAME RESIDENCE
1256) W SIXTEENTH AVE 203-11 N
Clement N 25xW 120. All work for
two-story and basement frame resi-
dence.
wner.....Mr. and Mrs. Lorenz H.
Hansen, 1955 Eddy, S. F.
rchitect ...None.
Contractor..Thomas McCormick, 25
Gladys, San Francisco.
Filed Apr. 27, '16. Dated Apr. 26, '16.
Frame up $1462.50
Brown coated 1462.50
Completed 1462.50
Usual 35 days..... 1462.50
TOTAL COST, $5850.00
Bond, $2985. Sureties, Wm. A. Dunne
and Harry S. Thomson. Limit, 90 days
from issuance of permit. Forfeit, none.
Plans and specifications filed.

FRAME RESIDENCES
(1257) W DIAMOND 163 N 20th N 50
xW 125. All work for two two-story
and basement frame residence.
Owner.....Patrick Connell.
Designer ...P. Algot Nelson.
Contractor..P. Algot Nelson, 4333 19th,
San Francisco.
Filed Apri 27, '16. Dated Apr. 20, '16.
Roof and rustic on.....$1483.25
Brown coated 1483.25
Completed and accepted..... 1483.25
Usual 35 days..... 1483.25
TOTAL COST, $5933.00
Bond, $3600. Surety, The Atena Acci-
dent & Liabiltiy Co. Limit, 100 days
from April 1, 1916. Forfeit, $2.50. Plans
and specifications, none.

FRAME RESIDENCE
(1258) NE ANZA & SEVENTEENTH
Ave N 25xE 90. Grading, concrete,
carpenter, plumbing, painting, glaz-
ing, etc., for frame residence.
Owner.....Walter G. Campbell.
Architect ...Fredk. H. Meyer, Bankers'
Invst. Bldg., S. F.
Contractor..Robert McLelland.
Filed Apr. 27, '16. Dated Apr. 26, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $5666
Bond, $2833. Sureties, M. B. Weiss and
W. H. Neff. Limit, 75 days. Forfeit,
none. Plans and specifications filed.

FRAME RESIDENCE
(1259) COMG. AT PT S CLOVER
Heights Tract and SW line Seward
W 178-1 13-16 m or 1 to NE line Cor-
win NW 3 m or 1 N 35-3⅛ m or 1 E
to pt opp beg SW to commencement,
being SW Seward about 178 NE Cor-
win. All work for two two-story
and basement frame residences.
Owner.....J. M. Schlesinger, 204
Eureka, San Francisco.
Designer ...P. Algot Nelson.
Contractor..P. Algot Nelson, 4333 19th,
San Francisco.
Filed Apr. 27, '1. Dated Apr. —, '16.
Roof and rustic on.....$812.50
Brown coated 812.50
Accepted 812.50
Usual 35 days..... 812.50
TOTAL COST, $3250.00
Bond, $1625. Surety, The Aetna Acci-
dent & Liability Co. Limit, 120 days
from April —, 1916. Forfeit, $2.50. Plans
and specifications none.

CONCRETE WALL
(1260) S EUGENIA 82 E Mission. Con-
crete wall and cement walk, etc.
Owner.....Mrs. A. Loisille, Oakland.
Architect ...None.
Day's work. COST, $400

FRAME RESIDENCE
(1261) E ATALAYA TERRACE 245-10
N Fulton. Two-story and basement
frame residence.
Owner.....W. J. Keenan, Masonic &
Fulton, San Francisco.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(1262) NOS. 183-185 DUBOCE. Fire-
proof and alter for garage in flats.
Owner.....Wm. J. Hasselbrock, 5
Montgomery, San Francisco
Architect ...A. Klahn, 27 Chenery, S. F.
Contractor..A. Klahn & Son, 27 Chen-
ery, San Francisco.
COST, $400

ALTERATIONS
(1263) NO. 3153 PACIFIC. Enclose
and enlarge porch.
Owner.....E. B. Kellam, Premises.
Architect ...None.
Contractor..E. T. Leiter & Son, 412 Call
Bldg., San Francisco.
COST, $600

ALTERATIONS
(1264) NO. 1573 GROVE. Minor alter-
ations for dwelling.
Owner.....John Anglade, 513 Broad-
way, San Francisco.
Architect ...None.
Contractor..Jack Chase, 160 Charter
Oak Ave., S. F.
COST, $400

FRAME FLATS
(1265) W EIGHTEENTH AVE 100 S
Lake. Two-story and basement frame
(2) flats.
Owner.....Emma McCarthy.
Architect ...None.
Contractor..L. T. McNabb, San Leandro.
COST, $4850

ELECTRIC SIGN
(1266) S MARKET — W Seventh.
Electric sign.
Owner.....Rialto Sheatre, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165
Eddy, San Francisco.
COST, $400

FRAME RESIDENCE
(1267) E NAPLES 75 S Seville. One-
story and basement frame residence.
Owner.....L. N. Rosenkrans, Crocker
Bldg., San Francisco.
Architect ...None.
Contractor..L. L. Allen, 4525 Mission,
San Francisco.
COST, $1950

FRAME RESIDENCE
(1268) E TWELFTH AVE 175 N Kirk-
ham. Two-story and basement frame
residence.
Owner.....Vincent B. Lewis, 139 Hugo
San Francisco.
Architect ...None.
Contractor..A. Harrington, 10 Judah,
San Francisco.
COST, $4000

FRAME FLATS
(1269) W TWENTY-SECOND AVE 200
N Anza. Two-story and basement
frame (2) flats.
Owner.....J. Fredericks, 120 Macon-
dray, San Francisco.
Architect ...J. Devencenzi, 1069 Union,
San Francisco.
Contractor..Devencenzi Bros. & Co.,
1069 Union, San Francisco.
COST, $4000

FRAME DWELLING
(1270) W FORTY-EIGHTH AVE 150 N
Judah. One-story and basement
frame dwelling.
Owner.....Neil Bros., 4221 Moraga,
San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(1271) SHAFTER AVE., bet. Railroad
and Lane. Two-story and basement
frame dwelling.
Owner.....Adolph and Emma Witt-
rock.
Architect ...None.
Contractor..H. Hindricks & Co., 1313
Quesada Ave., S. F.
COST, $1875

ALTERATIONS
(1272) NO. 109 GOLDEN GATE AVE.
Subdivide 2nd story floor with lath
and plaster partitions, replace present
D. H. sash in both fronts with Dean
reversible sash, install metal sky-
light and etc., for salesroom for
motion picture goods.
Owner.....W. H. Crocker, Crocker
Bldg., San Francisco.
Architect ...E. T. Foulkes, Crocker
Bldg., San Francisco.

Contractor..Crocker Est. Co., Crocker Bldg, San Francisco.
COST, $2000

FRAME RESIDENCE
(1273) E TWENTY-FOURTH AVE 220 N Vincente. One-story and basement frame residence.
Owner.....Wm. Thompson, 1047 Filbert, San Francisco.
Architect...None.
Contractor..Jack Callaghan, 900 Clayton, San Francisco.
COST, $2000

ALTERATIONS
(1274) NO. 116 SADOWA. Alter for garage, minor changes for dwlg.
Owner.....J. D. Rodney, Capitol near Sagamore, San Francisco.
Architect...None.
Day's work.
COST, $400

FRAME DWELLING
(1275) W YORK 325 S 26th. Two-story and basement frame dwelling.
Owner.....Fred Everett, 2563 Mission, San Francisco.
Architect...None.
Contractor..P. W. Montrouil, 270 Andover, San Francisco.
COST, $2000
NOTE:—Building nearly completed.

ELEVATOR WORK
(1276) MISSION near Twenty-third One electric freight and one electric side walk elevator in building.
Owner.....Frank & Louis Cames, 2786 Mission, San Francisco.
Architect...Fabre & Bearwald, 803 Merchants' Bank Bldg., San Francisco.
Contractor..B. C. Van Emon Elevators, Inc., 235 1st, S. F.
Filed Apr. 28, '16. Dated Apr. 20, '16.
Elevators delivered at bldg....$737.50
Elevators renuing 368.75
Usual 35 days..... 368.75
TOTAL COST, $1475.00
Bond, none. Limit, July 15, 1916. Forfeit, none. Specifications, only filed.

BRICK STORES
(1277) S MINNA 125 E 4th E 75xS 70. All work for one-story and basement brick store building.
Owner.....E. A. Norton.
Architect...Albert W. Burgren, 32 Woodland, San Francisco.
Contractor..Schroder Bros., 765 Folsom, San Francisco.
Filed Apr. 28, '16. Dated Apr. 27, '16.
Concrete walls up.....$1700
Brick work ready for roof girders 2300
Completed and accepted..... 2395
Usual 35 days..... 2132
TOTAL COST, $8527
Bond, $1263.50. Sureties, Jno. Schmidt and Chas. Lauffer. Limit, 45 days. Forfeit, $7.50. Plans and specifications filed

FRAME RESIDENCE
(1278) E TWELFTH AVE 100 N Cabrillo N 25xE 120. All work for two-story frame residence.
Owner.....David and Elizabeth G. Kion, 676 4th Ave., S. F.
Architect...None.
Contractor..Alton R. Lapham, 511 12th Ave., San Francisco.
Filed Apr. 28, '16. Dated Apr. 27, '16.
Frame up $1325
Brown coated and rough plumbing in 1325
Completed and accepted..... 1325
Usual 35 days..... 1325
TOTAL COST, $5300
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1279) NO. 2492 MISSION. All work for alterations to ground floor of bldg
Owner.....Wm. Scheppler & Sons, 2392 Mission, San Francisco.
Architect...H. Gellfuss & Son, 46 Kearny, San Francisco.
Contractor..Wade & Carlson, 245 Waller, San Francisco.
Filed Apr. 28, '16. Dated Apr. 26, '16.
Completed and accepted.....$1011
Usual 35 days..... 337
TOTAL COST, $1348
Bond, $674. Surety, Maryland Casualty Co. Limit, 20 days. Forfeit, $10. Plans and specifications filed.

LEASES.

Apr. 26, 1916—NO. 696 POST. George Jamson to Nickos Maniatis. October 15, 1918. $45 per month.
Apr. 28, 1916—NO. 7 COMMERCIAL. Jno Hemphill, Bessie Thornton and Mary Hemphill to Michele Bonetto. 10 years. $21,600.
Apr. 28, 1916—SW HARRISON AND 12th 80x60. The Daniel Gallagher Teaming, Mercantile & Realty Co to John Schwormstede. 5 years. $40 per month.
Apr. 25, 1916—NOS. 357 AND 359 GRANT Ave. Julius Casaccia and Basile Laborie to Christ Gounaridies and Efthimas Karmas. 2 years. $1080.
Apr. 22, 1916—E MISSION, bet. 22nd and 23rd, Grand Theatre. Mission Amusement Co to E S Stark. 5 years. $14,700.

NOTICE OF NON-LIABILITY.

Apr 28, 1916—SW MARKET & BEALE 30x90; No. 301 Market. Enright Est Co as to improvements on leased property .....

INCORPORATIONS.

St. Thomas Hospital Association. Capital Stock, $10,000; subscribed, $2500 shares $500 each. Directors—S. G. Dozier, C. A. Dozier, E. G. Frisbie, V. H. Hulen and E. E. Kelly, 1 share each. Place of business, San Francisco.

Plumas Grass Valley Mines Co. Capital Stock, $100,000; subscribed, $5; shares, $1 each. Directors—J. F. Buel, P. G. Chamberlain, M. Horn, D. C. Irving and H. H. McPike, 1 share each. Place of business, San Francisco.

Sun Photoplay Co. Capital Stock, $25,000; subscribed, $5; shares, $1 each. Directors—C. A. Sullivan, T. R. White, B. Smolenski, R. D. Sullivan and J. T. Sullivan, 1 share each. Place of business, San Francisco.

Mayer Walk & Co. Capital Stock, $5000; subscribed, $3; shares, 1 each. Directors—F. Walk, M. Walk, P. Uden, 1 share each. Place of business, S. F.

NOTICE OF NON-RESPONSIBILITY.

SAN FRANCISCO COUNTY.

Apr. 22, 1916—SE SOMERSET AND Wayland E 111 S 100 E 96 S 100 W 20 S 25 W 125 N 225. John Pfenninger as to improvements on leased property .....

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
Apr. 22, 1916—LOT 6 BLK 24, Crocker Amazon Tract. Oliver Evans to whom it may concern..Apr. 19, 1916
Apr. 24, 1916—N CALIFORNIA 34-4½ W Buchanan W 40xN 132-6. Helen B Detrick or Bowie to Charles E Urfer.....April 22, 1916
Apr. 24, 1916—N CABRILLO 95 from NE 13th Ave and N Cabrillo N 90x E 27-6. Margaretha J Koenig to whom it may concern..Apr. 21, 1916
Apr. 24, 1916—NW PARIS 250 SW Brazil Ave SW 25xNW 100 Blk 12, Excel Hd Ass'n. Ambrose B Frank to whom it may concern..Apr. 22, '16
Apr. 24, 1916—N WASHINGTON 137-6 E Laguna E 137-6x255-4½. Mary Louise Phelan to Butte Eng & Elec Co.....Apr. 21, 1916
Apr. 24, 1916—W EIGHTEENTH AV 75 N Balboa N 25xW 82-6. Mrs A Otten to whom it may concern... .....April 13, 1916
Apr. 24, 1916—W SEVENTEENTH Ave 335-6 N Cabrillo N 44-4 W 120 S 45-8 E 120. N J Nelson to whom it may concern.....Apr. 22, 1916
Apr. 24, 1916—W MISSION 190-9 N 25th N 25xW 117-6. Annie M Schulz to Michael Brueck, Henry Kunst and Kiernan & O'Brien.... .....April 22, 1916
Apr. 24, 1916—N BEAVER 200 E Castro. Aaron D, Flora V, Carrie and L L Lobree to E A F Carson.. .....April 24, 1916
Apr. 24, 1916—LOTS 19 AND 20 Ducas Sub Lots 5, 6, 11 and 12 Blk 26, West End Map No. 1. C S Allred to whom it may concern.Apr. 24, 1916
Apr. 25, 1916—S ½ LOT 16; all Lot 17 Blk 4, Crocker Amazon Tract. A Orlandi to whom it may concern .....Apr. 22, 1916
Apr. 25, 1916—E SEVENTEENTH Ave 100 N Balboa N 25xE 120. Michael Costello and Bryon Feerick to whom it may concern.Apr. 21, 1916
Apr. 25, 1916—W FORTIETH AVE 275 S Lincoln Way (H) S 25xW 120. John J Bell to whom it may concern .....Apr. 24, 1916
Apr. 25, 1916—W NOE 76-6 N 21st 25 x60. Albin M Samuelson to Henning Olson.....April 1, 1916
Apr. 25, 1916—NW DOLORES AND Army N 51-6xW 84. Wilhelmina Broughman O'Connel to Einar Petersen.....April —, 1916
Apr. 26, 1916—NE HARRIET; Nos. 331-345 Harriet. E W Lick to Sjogren Bros.....April 22, 1916
Apr. 26, 1916—S OCEAN AVE 30-5½ W **Cayauga,** Lot 22 Blk 17-B **Allred Tct.** Watson A Titus to whom it may concern.....Apr. 26, 1916
Apr. 26, 1916—COMG AT A PT DIST SW 103.70 measured along said line from NE Cor. of Blk 33 West End Map No. 1 th NW at r a to said Delano Ave 78 SW 25 SE 78 NE 25. Axel R Larson to whom it may cern.....Apr. 24, 1916
Apr. 27, 1916—E ELEVENTH AVE 250 S Geary 25x120. Charles Pedersen to Charles Pedersen.Apr. 27, 1916
Apr. 27, 1916—E TWENTY-FIFTH AV 100 N California N 25xE 120. W H Sale to Leigh & Schultz..Apr. 22, 1916
Apr. 27, 1916—S REGENT 300 E San Jose Ave Lot 17 Blk "B." John Knudson to whom it may concern .....April 26, 1916

Apr. 28, 1916—W THIRTY-NINTH AV 100 S Clement S 30xW 120; W 39th Ave 160 S Clement S 30x120; E 40th Ave 100 S Clement S 30xE 120; E 40th Ave 160 S Clement S 30xE 120. Pockman & Co to whom it may concern.....April 28, 1916

Apr. 28, 1916—E FORTY-FIRST AVE 173 N Balboa N 25xE 120. Theodor Schulz to whom it may concern... .....April 28, 1916

Apr. 28, 1916—SW BUSH & PIERCE W 126xS 100. Alice Cook Swan and Inez Cook Noble to J D Hannah.... ....April 24, 1916

Apr. 28, 1916—E HYDE 87-6 S Bush S 50xE 87-6. Clyde S Payne to whom it may concern..Apr. 27, 1916

Apr. 28, 1916—W EIGHTEENTH AVE 100 S Balboa S 25x120. Karl H Holmgren to whom it may concern .....April 28, 1916

Apr. 28, 1916—SW SCOTT & CHESTnut. Etel Stern to W S Grant..... .....April. 25, 1916

Apr. 28, 1916—NO. 1915 PIERCE. A L Brunner to McGlumphy & Agee.... .....April 27, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

Apr. 22, 1916—E SIXTH AND JESSIE SE 80xNE 57. Moller & Sons vs Mary S Barker and Emma E Bahneman $65

Apr. 22, 1916—SE BRYANT AND 20th E 76xS 27. Beach Elec Co vs John O McAuliffe and E C Gaspard & Co $115

Apr. 22, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Wilson Bros & Co, $998.25; Schwarz & Gottlieb, $234 vs Mrs Caroline Green and Jas P Fletcher.....

Apr. 22, 1916—E TWENTY-SECOND Ave 100 N Clement N 50xE 120. Reinhart Lumber & Planing Mill Co vs Axel Johnson and — Johnson (as Johnson & Johnson).....$637.57

Apr. 24, 1916—N STAPLES AVE 250 E Detroit Ave E 25x112-6 Lot 22 Blk 34, Sunnyside. Walter E Hansen vs J H and Kate Plattner..$279

Apr. 24, 1916—S GEARY 31-1½ W Kearny S 28-1⅓ SW 38-4½ N 50-6¾. California Metal Works vs Frank W Chandler, J O Ford, H P Flannery, Lincoln M Kibbe and Marie Adam Musto.....$691.85

Apr. 24, 1916—W TWENTY-FOURTH Ave 175 S Clement S 25xW 120. George H Tay Co vs Joseph Deasy and Alfred Johnson.....$68.46

Apr. 26, 1916—E FORTY-FIFTH AVE 125 N Cabrillo N 50xE 120. Paul Savy vs Co-Operative Bldg Society and Sterling Realty Co.....$112.45

Apr. 27, 1916—N PAGE 165-7½ W Central Ave N 137-6xW 40. E K Pearson vs Carrie Green and J P Fletcher $210

Apr. 27, 1916—W DIAMOND 44 S 26th S 23xW 75; No. 1114 Diamond. The Greater City Lumber Co vs J McCarthy and W F Connolly.....$12.65

Apr. 28, 1916—SE FIFTEENTH AND Dolores S 29xE 100. John and Louis Schmidt vs L A Hinson & Christoph Weinrank $105

Building Contracts Awarded

Oakland.

No.	Owner	Contractor	Amt.
1001	Martin	O'Connor	2960
1002	Sibbett	Sibbett	2000
1003	Trimlett	Trimlett	1600
1004	Trombetta	Trombetta	5000
1010	Nickolisen	Owner	2400
1011	Dewey	Dewey	1000
1012	Strang	Strang	2000
1013	Silva	Silva	1900
1016	Wheeler	Lodge	2442
1019	Howard	Howard	1950
1020	Howard	Howard	4530
1021	Bishop	Haly	2000
1022	Bradley	Picard	3400
1023	Creighton	Wooley	4000
1027	Boutrayer	Lindh	400
1028	Grandin	Grandin	2200
1029	Coburn	Coburn	2000
1030	McGuiness	McGuiness	3000
1031	Sturges	Christensen	12795
1032	O'Connor	Rich	2960
1033	Healy	Thomson	400
1034	Same	Same	2300
1035	Bennett	Browne	1428
1037	Wilson	Wilson	1800
1038	Brazier	Brazier	1450
1039	Jordan	Jordan	2500
1040	Smith	Smith	20000
1041	Donohue	Donohue	500
1042	Tyson	Bertelsen	1400
1043	Miller	Bradshaw	400
1044	Gas Appliance	Bradshaw	500
1045	Rendin	Dexter	1500
1053	Croter	Bignami	2020
1054	Plaza Rlty	Muller	500
1055	Pfrang	Pfrang	2500
1056	Stockley	Bignami	2020
1057	Hess	Grosse	400
1059	Bennett	Brown	1418
1060	Hamlin	Sairanen	3865

DWELLING

(1001) SE PROSPECT AND CARLTON Oakland. Two-story 7-room dwlg.
Owner.....Mrs. Hazel Martin, Okd.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Contractor..J. C. O'Connor, Syndicate Bldg., Oakland.
COST, $2960

MILL

(1002) E POPLAR 139 S Seventh, Oakland. Two-story waste mill.
Owner.....W. R. Sibbett Co., 550 Poplar, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING

(1003) S BROOKDALE AVE 400 W 38th Ave., Oakland. One-story five-room dwelling.
Owner.....R. Trimlett, 3630 Brookdale Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

STORE AND DWELLING

(1004) SE FORTY-FIFTH & GROVE, Oakland. Two-story 10-room store and dwelling.
Owner.....Dominies Trombetta, Prem.
Architect ...A. W. Pattiani, Merchants National Bank Bldg., S. F.
Day's work. COST, $5000

DWELLING

(1010) W EIGHTY-FIFTH AVE 160 S E-14th, Oakland. One-story six-room dwelling.
Owner.....Al. Nickolisen, 1345 85th Ave., Oakland.
Architect ...None.
Day's work. COST, $2400

DWELLING

(1011) NO. 2696 HAVENSCOURT BLVD., Oakland. One-story 4-room dwelling
Owner.....F. W. Dewey, 1126 71st Ave., Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING

(1012) W TWENTY-THIRD AVE 125 N E-30th, Oakland. One-story 5-room dwelling.
Owner.....E. H. Strang, 3741 Elston Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING

(1013) N FORTY-SIXTH 200 E Market, Oakland. One-story 5-room dwlg
Owner.....Mrs. Rose Silva, 2181 Santa Rita Ave., Oakland.
Architect ...None.
Contractor..J. P. Silva, 2181 Santa Rita Ave., Oakland.
COST, $1900

FRAME DWELLING

(1016) PTN LOT 112 Amended Map Alta Piedmont Tract, Piedmont. All work except hardwood floors, exterior painting, window shades, finish hardware, mantel, electric & plumbing fixtures for two-story frame dwelling.
Owner.....R. S. Wheeler, 296 Park View Terrace, Oakland.
Architect ...None.
Contractor..C. F. Lodge, 5471 Princeton, Oakland.
Filed Apr. 24, '16. Dated Apr. 20, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2442
Bond, none. Limit, 97 days. Forfeit, none. Plans and specifications filed.

ROUNDHOUSE

(1019) FIRST AND MARKET, Oakland Steel and corrugated iron roundhouse.
Owner.....Howard Co., Premises.
Architect ...None.
Day's work. COST, $1950

MACHINE SHOP

(1020) SW FIRST AND MARKET, Oakland. Steel and corrugated iron machine shop.
Owner.....Howard Co., Premises.
Architect ...None.
Day's work. COST, $4530

COTTAGE

(1021) NO. 140 OLIVE AVE., Piedmont One-story 6-room cottage.
Owner.....H. Bishop, Premises.
Architect ...None.
Contractor..Geo. H. Haly.
COST, $2000

DWELLING

(1022) LOT 168, FOURTH AVE TERrace Ext., Oakland. All work for one-story 5-room dwelling.
Owner.....Clarence R. Bradley, 1250 Taylor, San Francisco.
Architect ...None.
Contractor..William H. Picard, 477 Hardy, Oakland.
Filed Apr. 25, '16. Dated Apr. 21, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $3400
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME RESIDENCE, ETC.

(1023) GRAND AVE., Piedmont. Two-story 7-room frame residence and garage.

Owner.....W. H. Creighton, 166 Stow Ave., Oakland.
Architect...None.
Contractor..B. F. Wooley, 3868 Lusk, Oakland.
COST, $4000

ADDITION
(1027) NO. 4964 CORONADO AVE., Oakland. Addition.
Owner.....A. E. Boutrager, Premises.
Architect...None.
Contractor..O. F. Lindh, 2363 E-23rd, Oakland.
COST, $400

DWELLING
(1028) W ADELINE 60 S Aileen, Oakland. One-story 6-room dwelling.
Owner.....Edward Grandin, 1533 Prince, Berkeley.
Architect...None.
Day's work. COST, $2200

DWELLING
(1029) S MADELINE 200 W Laurel, Oakland. One-story 6-room dwelling.
Owner.....Emma Coburn, 2370 E-28th, Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
(1030) S PARK BLVD 370 W Brighton Oakland. One-story 7-room dwlg.
Owner.....Jas. McGuiness, 5615 E-17th Oakland.
Architect...None.
Day's work. COST, $3000

FRAME DWELLING
(1032) PTN LOT 21 BLK "D' Map Broadway Terrace, Oakland. All work for one-story frame dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Contractor..James L. Rich and B. F. Wolley, 3868 Lusk, Okd.
Filed Apr. 26, '16. Dated Apr. 21, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $2960
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

CLASS "C" FACTORY
(1031) FOOTHILL BLVD. near Stanley Road, Oakland. All work except electic work, plumbing, roofing, furnishing Fenestra windows and doors, but including setting of said windows and doors for one-story Class "C" factory building.
Owner.....V. K. Sturges Co., SW 26th and Union, Oakland.
Engineer...Maurice C. Couchot, 110 Sutter, San Francisco.
Contractor..Christensen Bros., 237 Wayne Ave., Oakland.
Filed Apr. 26, '16. Dated Apr. 26, '16.
10th day of each month..... 75%
36 days after..... 25%
TOTAL COT, $12,795
Bond, $6397.50. Surety, Massachusetts Bonding & Insurance Co. Limit, 70 days. Forfeit, none. Plans and specifications filed.

BARBER SHOP
(1033) S FORTUNE WAY 100 W 61st Ave., Oakland. One story 2-room barber shop.
Owner.....Mary C. Healy, 842 37th, Oakland.
Architect...None.
Contractor..J. W. Thomson.
COST, $400

DWELLING
(1034) SW SIXTY-FIRST AVE AND Fartune Way, Oakland. One-story 5-room dwelling.
Owner.....Mary C. Healy, 842 37th, Oakland.
Architect...None.
Contractor..J. W. Thomson.
COST, $2300

DWELLING
(1035) N SUNNYSIDE 250 E 92nd Ave. Oakland. One-story 5-room dwelling.
Owner.....Capt. J. J. Bennett, Oakland
Architect...None.
Contractor..Tom Browne, 1642 89th Ave., San Francisco.
COST, $1428

DWELLING
(1037) N MARIN 40 W Ventura, Albany One-story 5-room dwelling.
Owner.....J. A. Wilson, 2839 Ellsworth ,Berkeley.
Architect...None.
Day's work. COST, $1800

DWELLING
(1038) E TALBOT 450 S Marin, Albany. One-story 5-room dwelling.
Owner.....James A. Brazier, 1101 Talbot Ave., Albany. z
Architect...None.
Day's work. COST, $1450

DWELLING
(1039) S HARWOOD 265 E College Ave., Oakland. One-story five-room dwelling.
Owner.....F. R. Jordan, 5917 Ayala, Oakland.
Architect...None.
Day's work. COST, $2500

APARTMENTS
(1040) S TWENTY-SECOND 133 W Telegraph Ave., Oakland. Three-story 39-room apartments.
Owner.....George Smith, 636 Scenic Ave., Piedmont.
Architect...None.
Day's work. COST, $20,000

GARAGE
(1041) S GRAND AVE 100 W Harrison Blvd., Oakland. Garage.
Owner.....C. L. Donohue, Grand and Harrison, Oakland.
Architect...None.
Day's work. COST, $500

GREENHOUSE
(1042) E SOTELLO AVE 50 S Sotello (street cuves), Oakland. Greenhouse.
Owner.....James Tyson, 25 Sotello Ave., Oakland.
Architect...None.
Contractor..S. J. Bertelsen, 667 39th, Oakland.
COST, $1400

ELECTRIC SIGN
(1043) NO. 1106 BROADWAY, Oakland Electric sign.
Owner.....Miller Tailoring, Premises.
Architect...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $400

ELECTRIC SIGN
(1044) NO. 531 THIRTEENTH, Oakland. Electric sign.
Owner.....Gas Appliance Co., Prem.
Architect...None.
Contractor..Bradshaw Elec. Sign Co., 2063 Broadway, Oakland.
COST, $500

DWELLING
(1045) W VAN ALSTINE 175 S Hillside, Oakland. One-story 5-room dwelling.
Owner.....E. Rendin, Crockett, Cal.
Architect...None.
Contractor..A. R. Dexter, 820 Athens Ave., Oakland.
COST, $1500

ALTERATIONS
(1053) NO. 229 TENTH, Oakland. Alterations, moving two-story flats, new foundatins, underpin, etc.
Owner.....J. Corter, Premises.
Architect...None.
Contractor..F. C. Bignami, 5422 Claremont Ave., Oakland.
COST, $2020

ALTERATIONS
(1054) S SIXTEENTH 100 E San Pablo Ave., Oakland. Alterations.
Owner.....Plaza Realty Co., 1st National Bank Bldg., Oakland.
Architect...None.
Contractor..F. A. Muller, Syndicate Bldg., Oakland.
COST, $500

DWELLING
(1055) W EMERALD 400 N 41st, Oakland. One-story 5-room dwelling.
Owner.....L. G. Pfrang, 5428 Locksley Ave., Oakland.
Architect...None.
Day's work. COST, $2500

ALTERATIONS
(1056) NO. 217 TENTH, Oakland. Alterations (moving 2-story flats, new foundations and underpining).
Owner.....W. H. Stockley, Palo Alto.
Architect...None.
Contractor..F. C. Bignami, 5422 Claremont Ave., Oakland.
COST, $2020

GARAGE
(1057) NO. 701 RAND AVE., Oakland. Garage.
Owner.....I. I. Hess, Premises.
Architect...None.
Contractor..P. J. Grosse, 3070 Champion, Oakland.
COST, $400

DWELLING
(1059) N SUNNYSIDE 230 E 92nd Ave., Oakland. All work for one-story dwelling.
Owner.....J. J. Bennett.
Architect...None.
Contractor..Thomas Brown, 1642 89th Ave., Oakland.
Filed Apr. 28, '16. Dated Apr. 25, '16.
Frame up ..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1418
Bond, none. Limit, 60 days after April 25. Forfeit, $5. Plans and specifications none.

FRAME DWELLING
(1060) LOT 15 BLK 2, Fairview Park, Oakland. All work for two-story and basement 6-room frame dwelling.

ner.....T. L. and Ella R. Hamlin, 6420 Benvenue Ave., Okd.
chitect...John Hudson Thomas, 1st National Bank Bldg., Bkly.
ntractor..Oscar Sarranen, 1142 Addison, Berkeley.
ed Apr. 28, '16. Dated Apr. 18, '16.
Frame up ..... ¼
Brown coated ..... ¼
Accepted ..... ¼
Usual 35 days..... ¼
TOTAL COST, $3865
nd, none. Limit, 90 days. Forfeit, ne. Plans and specifications filed.

VELLING
061) LOT 13 Herzog Tract, Berkeley All work for one-story 5-room dwlg.
wner.....Elizabeth Brown, Berkeley.
chitect...None.
ntractor..Louis Engler, 2721 Haste, Berkeley.
led Apr. 28, '16. Dated Apr. 25, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2000
nd, none. Limit, 65 days. Forfeit, ne. Plans and specifications filed.

Building Contracts Awarded

Berkeley.

o.	Owner	Contractor	Amt.
05	Williams	Nelson	7995
06	Charles	Charles	1500
07	Tynett	Ahlstrom	2000
08	Gilsenen	Dildine	3000
09	Donovan	Carlson	1580
14	Shirk	Seammon	650
15	Stauffer	Paulson	7000
17	Werner	Werner	1500
18	Hillen	Hillen	2000
36	Atkins	Henderson	1040
46	Braun	Braun	3200
47	Allison	Allison	1300
48	Postel	Tullock	3000
49	Thaxter	Thaxter	3000
50	Skee	Skee	500
51	Breuner	Martin	1390
52	Heavey	Spitler	5000
58	Townsend	Townsend	3475
61	Brown	Engler	2000

RAME APARTMENTS
1005) LOT 75 COLBY TCT 260 from S line Woolsey 50x120, Berkeley. All work for two-story frame apartments.
wner.....John M. Williams.
rchitect...W. H. Ratcliff Jr., 1st National Bank Bldg., Bkly.
ontractor..H. P. Nelson, 2241 Grove, Berkeley.
iled Apr. 22, '16. Dated Apr. 22, '16.
Frame up and roof boarded..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $7995.40
Bond, $3997.70. Surety, Casualty Co. of America. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(1006) W CURTIS 102 N Hearst, Berkeley. One-story 5-room dwelling.
Owner.....W. G. Charles, P. O. Box 29, San Francisco.
Architect...None.
Day's work. COST, $1500

DWELLING
(1007) N PARKER 160 from McGee, Berkeley. One-story 5-room dwlg.
Owner.....W. Tynett, 1713 Parker, Berkeley.
Architect...None.
Contractor..E. Ahlstrom, 1112 Chaucer, Berkeley.
COST, $2000

DWELLING
Owner.....Mrs. E. Gilsenen, 2837
(1008) NO. 2965 MAGNOLIA, Berkeley. Two-story 7-room dwelling.
Webster, Berkeley.
Architect...None.
Contractor..V. Dildine, 6243 College Ave., Oakland.
COST, $3000

DWELLING
(1009) W EIGHTH 200 S Grayson, Berkeley. One-story 5-room dwelling
Owner.....C. Donovan, 2816 8th, Berkeley.
Architect...None.
Contractor..H. Carlson, 1627 Parker, Berkeley.
COST, $1580

STORE
(1014) NE HEARST AND McGee, Berkeley. One-story 1-room store.
Owner.....D. L. Shirk. 1719 Hearst, Berkeley.
Architect...None.
Contractor..R. R. Scammon, 1720 Delaware, Berkeley.
COST, $650

WAREHOUSE
(1015) SE FOURTH AND SNYDER Ave., Berkeley. One-story Class "B" warehouse.
Owner.....Stauffer Oil Co., 624 California, San Francisco.
Architect...None.
Contractor..P. M. Paulson.
COST, $7000

DWELLING
(1017) E BONAR 100 S Channing Way, Berkeley. One-story 5-room dwlg.
Owner.....Chas. A. Werner, 2416 10th, Berkeley.
Architect...None.
Day's work. COST, $1500

DWELLING
(1018) N FRANCISCO 80 E Acton, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect...None.
Day's work. COST, $2000

GARAGE
(1036) NO. 215 ALVARADO ROAD, Berkeley. Garage.
Owner.....G. H. Atkins, Insurance Bldg., San Francisco.
Architect...Vickey, Atkins & Torrey, Sutter and Powell, S. F.
Contractor..W. D. Henderson, Monadnock Bldg., San Francisco.
COST, $1040

DWELLING
(1046) NE PIEDMONT AVE AND Parker, Berkeley. Two-story 8-room dwelling.
Owner.....Emelie Braun, 2547 Piedmont Ave., Berkeley.
Architect...None.
Day's work. COST, $3200

DWELLING
(1047) W MABEL 160 S Ward, Berkeley. One-story 5-room dwelling.
Owner.....C. H. Allison, 34 Brookside, Berkeley.
Architect...None.
Day's work. COST, $1300

DWELLING
(1048) S TYLER 175.89 from Sacramento, Berkeley. One-story 5-room dwelling.
Owner.....A. Postel, 2147 San Jose Ave., Alameda.
Architect...None.
Contractor..H. Tullock, 2415 24th Ave., Oakland.
COST, $2000

DWELLING
(1049) W REGENT 350 S Webster, Berkeley. Two-story 7-room dwlg.
Owner.....Georgia T. Thaxter, 3024 Regent, Berkeley.
Architect...None
Contractor..F. W. Thaxter, 3024 Regent Berkeley.
COST, $3000

ADDITION
(1050) NO. 1815 GROVE, Berkeley. Addition.
Owner.....A. Y. Skee, 1813 Grove, Berkeley.
Architect...None.
Day's work. COST, $500

DWELLING
(1051) W BYRON 100 S Addison, Berkeley. One-story 5-room dwelling.
Owner.....Genevive Breuner, 1931 Delaware, Berkeley.
Architect...None.
Contractor..R. H. Martin, 1538 Hearst Ave., Berkeley.
COST, $1390

DWELLING
(1052) W ALVARADO ROAD 300 N Tunnel Road, Berkeley. Two-story 9-room dwelling.
Owner.....M. T. Heavey, 2026 College Ave., Berkeley.
Architect...None.
Contractor..E. B. Spitler, 815 Oxford, Berkeley.
COST, $5000

DWELLING
(1058) E ARLINGTON AVE 50 N Mendocino Path ,Berkeley. One-story 8-room dwelling.
Owner.....Fred Townsend, 840 San Luis Road, Berkeley.
Architect...Olin S. Grove, 161 Santa Clara Ave., Oakland.
Day's work. COST, $3475

Building Contracts Awarded

ALAMEDA COUNTY.

No.	Owner	Contractor	Amt.
1024	Gould	Burton	500
1025	Coburn	Coburn	1000
1026	Muller	Richards	400

DWELLING
(1024) NO. 1717 SAN ANTONIO AVE., Alameda. One-story 3-room dwelling.
Owner.....J. S. Gould, 1816 Encinal Ave, Alameda.
Architect...None.
Contractor..Chas. Burton, 993 Park,
COST, $500

DWELLING
(1025) NO. 1101 PEACH, Alameda. One-story 5-room dwelling.
Owner.....J. H. Coburn, Bay Farm Island Bridge, Alameda.
Architect...None.
Day's work. COST, $1000

WAREHOUSE
(1026) NO. 1122 SANTA CLARA AVE., Alameda. Warehouse.
Owner.....Muller Bros.
Architect...None.
Contractor..L. D. Richards, 1614 Bay, Alameda.
COST, $400

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 22, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. Robert Davies to whom it may concern... .....April 21, 1916

Apr. 22, 1916—NO. 3646 PATTERSON Ave, being Lot 5 and NE 12½ Lot 6 Blk 21, Key Route Heights, Okd. Andrew Anderson to whom it may concern.....Apr. 20, 1916

Apr. 22, 1916—BDED ON N BY Francisco, E by Short, S by Delaware, W by Acton, Bkly. (15 dwellings).R C Hillen to whom it may concern .....April 22, 1916

Apr. 22, 1916—PTN LOTS 1 AND 2 Blk 1 Map Amended Map Hopkins Terrace No. 4, Bkly. Mary F Underhill to Jacob House..Apr. 21, 1916

Apr. 22, 1916—LOT 9 BLK 6 Berkeley Heights Tract, Bkly. C E Sinclair to whom it may concern.Apr. 22, 1916

Apr. 24, 1916—LOT 19 BLK "D" Map Waterside Terrace, Ala. Mark T Cole to whom it may concern..... .....April 20, 1916

Apr. 24, 1916—LOT 6 BLK 3 Graves and Taylor Tract, Bkly. Louis O Hansson to L O Hanson.Apr. 21, 1916

Apr. 24, 1916—PTN LOT 17 Map Craig Poty, Piedmont. Walter H Creighton to whom it may concern..... .....April 22, 1916

Apr. 25, 1916—LOTS 8 TO 24, Incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl Map R J McMullens Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Stobbe & Romak, Apr 21st; Otis Elevator Co.....Apr. 11, 1916

Apr. 28, 1916—W MARKET 40 SW 40th SW 75 NW 103.70 NE 15 SE 3.79 NE 60 SE 99.97, Okd. C A Luedeking to J W Jespersen and A C Dippo .....Apr. 15, 1916

Apr. 28, 1916—LOT 14 BLK 2, Thousand Oaks, Oakland Tp. Charles W Brock to Butterfield & Barker..... .....April 27, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 24, 1916—SW FRANCISCO AND Sacramento S 100xW 80, Bkly. Judson McCullry vs E M Reagh and Asa Perkins.....$600

Apr. 25, 1916—LOT 18 Map Sheet No. 2, Nova Piedmont, Piedmont. Hunter Lumber Co vs C E Wheeland.. .....$401.03

Apr. 25, 1916—LOTS 1 TO 10 AND 13 to 24, incl Blk 20, Town of Woodstock Site, Alameda. James Dougall $79.40; T W Patman, $60 vs Frank Sobrero, Gerolama Firpo, Luigi Querrcio, Angelo Stagnara, Giovanna Stagnara (Alameda Vege-

Apr. 25, 1916—N SAN JOSE AVE 300 E Walnut E 50xN 150, Alameda. F C Deetken and J M Ansel (Alatable Gardens) .....

Apr. 26, 1916—LOT 14 BLK 6 Map Brookdale Terrace, Okd. Cobbledick-Kibbe Glass Co vs Thomas A and Ethie L Batte and O G Smith $34.25

Apr. 27, 1916—SW ELEVENTH AVE and E-16th W 150xS 75, Okd. M J Terra vs T J and Amelia M Cullen, O M Bullock and J P Silva....$111.25

BUILDING CONTRACTS

SANTA CLARA COUNTY.

GAS APPARATUS

COMPANY GAS PLANT, San Jose. All work for one 12-foot improved Jones oil gas apparatus.

Owner.....Pacific Gas & Electric Co., 48 E-San Antonio, San Jose

Architect ...None.

Contractor..Schaw-Batcher Co, Pipe Works, 35 Market, S. F.

Filed Apr. 27, '16. Dated Mar. 20, '16. 50% of value of labor and material furnished during any month on expiration of said month, sum equal to difference between aggregate of said monthly payments and 75% of contract price to be paid on completion .....

Usual 35 days, final..... 25%

TOTAL COST, $11,750

Bond, $6000. Sureties, Henry A. Heilbron and E. S. Brown. Limit, 120 days after foundations in . Forfeit, $50 per day. Plans and specifications filed.

FRAME DWELLING

UNIVERSITY AVE near Seneca Street, being Lot 2 Blk 52, City of Palo Alto. All work except plumbing and heating for two-story and basement frame dwelling.

Owner.....Mrs. E. C. Hughes and Mrs. L. J. Kennedy, Palo Alto.

Architect ...John K. Branner, 519 California, San Francisco.

Contractor..George Jacobson, Redwood City.

Filed Apr. 22, '1. Dated Apr. 19, '16.

Rough frame and rafters up..$1626.57

Rough plaster on..... 1626.56

Plastering & standing trim on 1626.56

Accepted 1626.56

Usual 35 days..... 2168.75

TOTAL COST, $8675.00

Bond, $4337.50. Surety, Fidelity & Deposit Co. of Maryland. Limit, 110 days after filing. Forfeit, $5. Plans and specifications filed.

PLUMBING, SEWER WORK & HEATing system on above.

Contractor..Scott Co., 243 Minna, S. F.

Filed Apr. 22, '16. Dated Apr. 19, '16.

Roughing tests made.....$605.25

All completed 605.25

Usual 35 days after entire contract work accepted..... 403.50

TOTAL COST, $1614.00

Bond, none. Limit, 100 days after filing. Forfeit, $5. Plans and specifications filed.

FRAME BUNGALOW

LOT 4 BLK 1, Acacia Park Tract, San Jose. All work for five-room frame bungalow.

Owner.....A. F. and Mae Edna Ryan.

Architect ...None.

Contractor..George E. Baggott, 150 Terraine, San Jose.

Filed Apr. 19, '16. Dated Apr. 17, '16.

Frame up $500

Plaster on 500

Job completed 500

Usual 35 days..... 500

TOTAL COST, $2000

Bond, $1050. Sureties, J. C. Baggott and A. L. Hubbard. Limit, none. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE

JULIAN ST., bet. 13th and 14th Sts., San Jose. All work for one-story frame residence.

Owner.....Dr. F. B. Pearce, 66 Santa Clara, San Jose.

Architect ...F. D. Wolfe, 1st Nati Bank Bldg., San Jose.

Contractor..John Dowle, '43 Gr Ave., San Jose.

Filed Apr. 19, '16. Dated Apr. 17, '1

Frame up $79

Brown coat mortar on..... 79

Job accepted 79

Usual 35 days..... 79

TOTAL COST, $316

Bond, $1580.50. Sureties, J. A. an Hal Chase. Limit, 75 days after fil Forfeit, none. Plans and specificati filed.

FRAME DWELLING

IDYLWILD, near Alma. All work one-story frame country dwellin

Owner.....Peter Col, 85 Martin A San Jose.

Architect ...F. D. Wolfe, 1st Natic Bank Bldg., San Jose.

Contractor..J. E. Perkins.

Filed Apr. 19, '16. Dated Apr. 6, '1

Frame up $66

Plaster on 66

Job accepted 66

Usual 35 days..... 66

TOTAL COST, $265

Bond, $1325. Sureties, J. H. Pierce C. P. Damon. Limit, 50 days a filng. Forfeit, none. Plans and sp fications filed.

COMPLETION NOTICES.

SANTA CLARA COUNTY.

RECORDED ACCEPT

Apr. 22, 1916—SEVENTH & KEYE San Jose. C M Lorigan to whor it may concern.....Apr. 19, 1

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOU

Apr. 18, 1916—LOT 7 BLK 4 Masso Add'n to Town of Los Gatos. A Baron vs Jesse S O'Neil, Anna I O'Neil and the Bank of Los Gatos.

Apr. 18, 1916—LOT 5 BLK 4, Masso Sbdvn, Town of Los Gatos. A Baron vs Geo H and Bella Laidlav Colbath and S V Seastream....$7

BUILDING CONTRACTS

SAN MATEO COUNTY.

MAUSOLEUM

WOODLAWN CEMETERY, Colma. work for mausoleum.

Owner.....Mrs. A. Bacigalupi, S. F

Architect ...Italo Zanolini, 604 Mo gomery, San Francisco.

Contractor..California Granite Sharon Bldg., S. F.

Filed Apr. 21, '16. Dated Apr. 17, '16

Foundation, etc., in place..... 2

Granite set 2

When completed 2

Usual 35 days..... 2

TOTAL COST, $3

Bond, none. Limit, 90 days. Forf $10 per day. Plans and specificatic filed.

FRAME DWELLING

LOT 30 BLK 47 Map of Easton Addit to Burlingame No. 4, Burlingame. work for six-room and baseme frame dwelling.

er.....Thomas and Sarah Helen Bradbury, Buri Buri and Balboa, Burlingame.
itect ...None.
ntractor..Samuel McClure.
d Apr. 21, '16. Dated Apr. 19, '16.
rame up $632.75
t coat plaster on..... 632.75
hen completed 632.75
sual 35 days..... 632.75
TOTAL COST, $2531.00
d, none. Limit, 80 days. Forfeit, e. Plans and specifications filed.

AME RESIDENCE
CERRITO AVE, "Bowie Estate," illsborough. All work for frame sidence.
ner.....Junius H. Browne San Mateo County, Cal.
hitect ...None.
ntractor..Collman & Duncan, Sharon Bldg., San Francisco.
ed Apr. 22, '16. Dated Apr. 21, '16.
rame up 25%
st coat plaster on..... 25%
hen completed 25%
sual 35 days..... 25%
TOTAL COST, $6300
d, none. Limit, 100 days. Forfeit, e. Plans and specifications filed.
OTE:—$700 to be paid to contractor superintending work.

AME RESIDENCE
CERRITO AVE, Map No. 1 of "Bowie Estate," Hillsborough. All work for frame residence.
ner.....Junius H. Browne San Mateo County, Cal.
chitect ...None.
ntractor..Collman & Duncan, Sharon Bldg., San Francisco.
led Apr. 22, '16. Dated Apr. 21, '16.
Frame up 25%
1st coat plaster on..... 25%
When completed 25%
Usual 35 days..... 25%
TOTAL COST, $6300
nd, none. Limit, 100 days. Forfeit, ne. Plans and specifications filed.
NOTE:—$700 to be paid to contractor r superintending work.

AME RESIDENCE
TN LOT 93, San Mateo Park, San Mateo. All work for two-story and basement frame residence.
wner.....Chas. Irvin, San Mateo.
chitect ...Will H. Toepke, 46 Keanry, San Francisco.
ontractor..Arnold & Morey, 2167 Grove, San Francisco.
iled Apr. 26, '16. Dated Apr. 25, '16.
Frame up .....$ 954
1st coat plaster on..... 954
When plastered 953
When completed 953
Usual 35 days..... 1272
TOTAL COST, $5986
Bond, $2550. Sureties, J. I. Moraith and I. C. Dumbach. Limit, 75 working days. Forfeit, $5 per day. Plans and specifications filed.

OFFICES AND APARTMENTS
SE BURLINGAME AVE AND PARK Road, Ptn Blk 6, Town of Burlingame All work for two-story and basement reinforced concrete and frame stores, offices and apartments
Owner.....Josephine M. Lamb, 315 Occidental St., Burlingame, & Edith E. Lorton, 115 Park Road, Burlingame.
Architect ...Thos. M. Edwards & Ernest L. Norberg, Bank Bldg., Burlingame.
Contractor..Collman & Duncan, Sharon Bldg., San Francisco.
Filed Apr. 25, '16. Dated Apr. 19, '16.
Concrete poured $3193
When plastered 3193
When completed 3193
Usual 35 days..... 3193
TOTAL COST, $12,772
Bond, $6386. Surety, New Amsterdam Casualty Co. Limit, 90 days. Forfeit, $10 per day. Plans and specifications filed.

LOT 4 BLK 5 Shdvn No. 3 of Burlingame Park, Burlingame. All work except shades and light fixtures for two-story frame building.
Owner.....Dr. G. Bergstrom, Middlefield, Burlingame.
Architect ...August Nordin, Mills Bldg San Francisco.
Contractor...A. Dahlberg, 3525 Sacramento, San Francisco.
Filed Apr. 20, '16. Dated Apr. 17, '16.
Frame up, etc.....$1281
Brown plastered 1281
When completed 1281
Usual 35 days..... 1282
TOTAL COST, $5125
Bond, $2563. Sureties, Peter McIlugh and M. Gilmore. Limit, July 20, 1916. Forfeit, $5 per day. Plans and specifications filed.

RELEASE OF LIENS.

SAN MATEO COUNTY.

Apr. 26, 1916—LOT 1 BLK 5 Western Add'n to San Mateo. Croop & Keegan to L V and P T Brunsing (3 liens released)..$931,83; $134.90; $553

COMPLETION NOTICES.

SAN MATEO COUNTY.

RECORDED ACCEPTED
Apr. 25, 1916—LOT 10 BLK 37, Redwood Highlands. Redwood High- and to whom it may concern .....April 21, 1916

LIENS FILED.

SAN MATEO COUNTY.

RECORDED AMOUNT
Apr. 26, 1916—LOT 27 BLK 2, Crocker Estate, Daly City. M Berman vs W N Rittiger and O E Evans & Co $112.50

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
Apr. 21, 1916—LOT 14 BLK 7, Burlingame Land Co, Burlingame. Lewis P Meaney to M E Hopper & Sons.....Apr. 19, 1916
Apr. 21, 1916—LOT 19 of Baldwin & Howell's Re-shdvn of Lots 167 and 168 Sub 2 and Lots 86 to 92, Incl, San Mateo Park, San Mateo. Georgiana Gray to S McClure..... .....April 19, 1916
Apr. 22, 1916—LOT 62, Stanford Park Annex near Palo Alto, San Mateo Co. Fred and Mary Worrell to Earl D Minton.....Apr. 10, 1916
Apr. 22, 1916—LOT 15 BL "B" Hayward Park, San Mateo. Louise C Casey to Croop & Keegan.Apr. 21, '16

BUILDING CONTRACTS

MARIN COUNTY.

FRAME BUNGALOW
FAIRFAX, Marin Co. All work for one-story frame bungalow.
Owner.....W. C. Kohler.
Architect ...Geo. T. Colmesnil, Hearst Bldg., San Francisco.
Contractor..Geo. T. Colmesnil.
Filed Apr. 27, '16. Dated Apr. 26, '16.
Owner to pay bills through the contractor as they become due..... Owner to pay contractor upon signing of contract the sum of $175 to defray petty expenses during course of construction .....
TOTAL COST, $1350
Bond, none. Limit, as fast as required. Forfeit, none. Plans and specifications filed.

GARAGE
SAN RAFAEL. All work for four stall garage.
Owner..... Leon Douglas, Petaluma Ave., San Rafael.
Architect ...N. W. Sexton, Merchants National Bank Bldg., S. F.
Contractor. Geo. W. Boxton & Son, Hearst Bldg., S. F.
Filed Apr. 19, '16. Dated Apr. 7, '16.
Foundation laid $683
Steel in place..... 683
When plastered 683
When accepted 683
Usual 35 days..... 900
TOTAL COST, $3632
Bond, limit, forfeit, none. Plans and specifications, none.

RELEASE OF LIENS.

MARIN COUNTY.

RECORDED AMOUNT
Apr. 26, 1916—SAUSALITO, Duncan's Mills Land & Lumber Co to Mrs Anna Kistenmacher $22.50
Apr. 26, 1916—SAN ANSELMO, Marin Co. Chester C Perkins to whom it may concern.....Apr. 17, 1916

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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If you do not deal with us, we both lose.

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BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING
LOTS 7 AND 8, BLK 4, Stratford Place, Fresno. Dwelling.
Owner.....Peterson & Blosser.
Architect ...None.
Contractor..Dan Blosser, 217 Abby St., Fresno. COST, $2000

ADDITIONS
LOTS 22, 23 AND 24 BLK 34, Belmont Add'n, Fresno. Addition to dwlg.
Owner.....P. J. Fhille.
Architect ...None.
Contractor..John W. Neal, 627 Raisina St., Fresno.
COST, $1000

REPAIRS
NO. 817 EYE ST., Fresno. Repairs on warehouse and stores.
Owner.....E. W. Risley, 243 Van Ness St., Fresno.
Architect ...None
Contractor..T. E. Risley.
COST, $3000

DWELLING
LOTS 5 AND 6 BLK 52, Fresno. All work for dwelling.
Owner.....Hart & Buwaldo, 846 Mono Ave., Fresno.
Architect ...None.
Day's work. COST, $2000

VENTILATING SYSTEM
LOTS 1 TO 6 BLK 82, Fresno. All work for installing ventilating system.
Owner.....Fresno Republican Publishing Co., Tulare St., Cor. K St., Fresno.
Architect ...None.
Contractor..R. Petersen & Co.
COST, $1200

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
Apr. 26, 1916—LOTS 10 AND 11, Earlhurst. John W Quane to whom it may concern.....April 20, 1916
Apr. 25, 1916—N 100 FT. OF LOTS 3 and 4 Blk 52, East, Fresno. J B Hart to K C Buwalda to whom it may concern.....Apr. 25, 1916

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
Apr. 21, 1916—LOTS 1 TO 7 BLK 94, Fresno. E Dinneen vs F M Roessler $61.55

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

DWELLING
HERDON AVE on Lot 13 of Villa Sub. No. 2, Sacramento. Five-room dwlg.
Owner.....O. B. Heath, 1705 T St., Sacraemnto.
Architect ...None.
Contractor..E. P. Maltby.
COST, $1350

REMODEL RESIDENCE
NO. 1114 TENTH ST., on S ¼ of Lot 4, O. P. 9th and 10th Sts., Sacramento. Remodel residence into three-story flats.
Owner.....J. H. Longton.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
Filed Apr. 25, '16. Dated Apr. 6, '16.
COST, $6750

ADDITION
NO. 3514 SIXTH AVE, Lot 2673 Oak Terrace, Sacramento. Addition to residence.
Owner.....G. E. Peterson.
Architect ...None.
Day's work. COST, $300

REMODEL RESIDENCE
NO. 1305 F ST., on E ½ Lot 8 E, F, 13th and 14th Sts., Sacramento. Remodel residence.
Owner.....C. La Rue, 1307 F S t., Sacramento.
Architect ...None.
Contractor..T. W. Johnston, 2000 I St., Sacramento.
COST, $250

ADDITION
NO. 3011 MAGNOLIA AVE on Lot 14 Blk 24, South Sacramento. Build sleeping porch on residence.
Owner.....F. J. Hudson.
Architect ...None.
Contractor..R. P. Conaver, 3916 Stanford Ave., Sacramento.
COST, $250

REMODEL BUILDING
NO. 831 J ST., on E ½ of S ½ Lot 5 I, J, 8th and 9th Sts., Sacramento. Remodel building.
Owner.....A. J. Pommer.
Architect ...None.
Contractor..J. Trounson. 121 5th, S. F. Sacramento.
COST, $400

MOVE DWELLING
NO. 521 TWENTY-SEVENTH, on N ½ Lot 8 E, F, 27th and 28th Sts., Sacramento. Move dwelling.
Owner.....F. W. Book, 717 29th St., Sacramento.
Architect ...None.
Contractor..E. W. Book, 2912 H St.,
TOTAL COST, $2319.65
Bond, none. Limit, 45 working days. Forfeit, none. Plans and specifications filed.

NOTICE OF NON-LIABILITY.

SACRAMENTO COUNTY.

Apr. 21, 1916—LOTS 31 AND 52 Dye Chinatown, Walnut Grove. Amy Brown, Sperry W Dye, Milo E and Corodon Dye as to imprevoments on leased property .....

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

CLASS "C" HOTEL
MARKET ST., bet. Sutter and San Joaquin Sts., Stockton. Steel work for four-story Class "C" brick restaurant and hotel.
Owner.....Fontana & Delucchi, 228 S-Center St., Stockton.
Architect .. Sala & Mayo, Commercial & Savings Bank Bldg., Stockton.
Contractor..Builders' Iron Works, 318 E-Lafayette St., Stockton.
Filed Apr. 19, '16. Dated Feb. 21, '16.
Payments not given.....
TOTAL COST, $2020
Bond, limit, forfeit, none. Plans and specifications filed.
EXCEPT STRUCTURAL STEEL, ELEvator, electric, and steam heating on above.
Contractor..J. F. Shepherd, 1031 W-Vine St., Stockton.
Filed Apr. 19, '16. Dated Mar. 7, '16.
Monthly payments of..... 75%
Usual 35 days.....Balance
TOTAL COST, $19,502
Bond, $10,000. Sureties, I. F. Stein and H. Post. Limit, 64 days for 1st floor and 180 days upper. Forfeit, $20. Plans and specifications filed.
ELECTRIC WORK ON ABOVE.
Contractor..Electric & Machine Equipment Co., 126 N-Eldorado St., Stockton.
Filed Apr. 19, '16. Dated Mar. 7, '16.
Payments not given.....
TOTAL COST, $880
Bond, $440. Surety, Globe Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

STEAM HEATING PLANT ON ABOVE.
Contractor..Pahl & Harry Co., 35 S-Sutter St., Stockton.
Filed Apr. 19, '16. Dated Mar. 7, '16.
Usual 35 days after acceptance..
TOTAL COST, $1172
Bond, $890. Sureties, H. S. Dawson and W. R. Clark. Limit, forfeit, none. Plans and specifications filed.

SCHOOL
CITY OF LODI. All work for one-story six-room school.
Owner.....Lodi Grammar School District, Otto Weihe, Clerk.
Architect ...Stone & Wright, San Joaquin Valley Bank, Stockton
Contractor..Philbrick & Colvin.
Filed Apr. 6, '16. Dated Mar. 24, '16.
Monthly payments of..... 75%
Usual 35 days.....Balance
TOTAL COST, $34,468
Bond, $17,234. Surety, Massachusetts Bonding & Insurance Co. Limit, 120 working days. Forfeit, not over $5 a day. Plans and specifications filed.

BANK BUILDING
SW MAIN AND SAN JOAQUIN STS., Stockton. All structural steel work for eight-story bank and office building.
Owner.....Farmers' & Merchants' Bank, by P. J. Walker Co., Monadnock Bldg., S. F.
Architect ...George W. Kelham, Sharon Bldg., San Francisco.
Contractor..Vulcan Iron Works., Francisco and Kearny, S. F.
Filed Apr. 21, '16. Dated Apr. 10, '16.
Semi-monthly payments of..... 75%
Usual 35 days.....Final
TOTAL COST, $28,000
Bond, $14,000. Surety, Hartford Accident & Indemnity Co. Limit, 120 days. Forfeit, amount of damage. Plans and specifications filed.

BUILDING CONTRACTS

SONOMA COUNTY.

FRAME WAREHOUSE
HEALDSBURG. All work for frame warehouse.
Owner.....California Fruit Canners' Association.
Engineer ...P. L. Brush.
Contractor..Bailey Comstock Co.

Filed Mar. 15, '16. Dated Mar. 13, '16.

Outside platform completed..	$ 250.00
Half floor in building.....	300.00
Entire work completed.....	1189.65
Usual 35 days.....	580.00

LIENS FILED

SONOMA COUNTY.

RECORDED AMOUNT

Apr. 10, 1916—SANTA ROSA. C P Miller vs Wm A A Quimby....$51.20

Mar. 11, 1916—SANTA ROSA. J H Bertino vs J Bishop et al.....$36.14

Mar. 20, 1916—SANTA ROSA. Mead Clark Lumber Co vs Mary Monroe et al $32.75

THE HOME OF THE FUTURE: THE NEW ARCHITECTURE OF THE WEST: SMALL HOMES FOR A GREAT COUNTRY: BY IRVING J. GILL IN THE CRAFTSMAN MAGAZINE FOR MAY.

"An artist is known rather by what he omits."

Architecture, Victor Hugo says, is the great book of the world, the principal expression of a man in his different stages of development, the chief register of humanity. Every religious symbol, every human thought has its page and its monument in that immense book. Down to the time of Gutenberg, he points out, architecture was the principal, the universal writing. Whoever was born a poet then, became an architect. All arts obeyed and placed themselves under the discipline of architecture. They were the workmen of the great work. There was nothing which, in order to make something of itself, was not forced to frame itself in the shape of an architectural hymn or prose. He has shown us that the great products of architecture are less the works of individuals than of society, rather the offspring of a nation's effort than the inspired flash of a man of genius, the deposit left by a whole people, the heaps accumulated by centuries, the residue of successive evaporations of human society, in a word, a species of formation. Each wave of time contributes its alluvium, each race deposits its layer on the mounment, each individual brings his stone.

No architect can read this inspired analysis of the place and the importance of architecture in preserving the records of the world's thought and action, without approaching his own part in this human record with a greater reverence and greater sense of responsibility. What rough or quarried stone will each of us contribute to the universal edifice, what idle or significant sentence will we write with brick and stone, wood, steel and concrete upon the sensitive page of the earth? In California we have great wide plains, arched by blue skies that are fresh chapters as yet unwritten. We have noble mountains, lovely little hills and canyons waiting to hold the record of this generation's history, ideals, imagination, sense of romance and honesty. What monument will we who build, erect to the honor or shame of our age?

The West has an opportunity unparalleled in the history of the world, for it is the newest white page turned for registration. The present builders have the advantage of all the wisdom and experience of the ages to aid them in poetically inscribing today's milestone in the progress of humanity. The West unfortunately has been and is building too hastily, carelessly and thoughtlessly. Houses are springing up faster than mushrooms, for mushrooms silently prepare for a year and more before they finally raise their house above the ground in proof of what they have been designing so long and secretly. People pour out here as on the crest of a flood and remain where chance deposits them when the rush of waters subsides, building temporary shacks wherein they live for a brief period while looking about for more permanent anchorage. The surface of the ground is barely scraped away, in some cases but a few inches deep, just enough to allow builders to find a level, and a house is tossed together with little thought of beauty, and no thought of permanence, haste being the chief characteristic. The family of health or fortune seekers who come out here generally expects to camp out in these shacks for but a short time and plans to sell the shiftless affair to some other impatient newcomer. Perhaps such temporary proceedings are necessary in the settling of a new land; fortunately such structures cannot endure, will never last long enough to be a monument for future generations to wonder at. Such structures cannot hightly be called homes, so do not justly deserve notice in a consideration of Western domestic architecture.

If we, the architects of the West, wish to do great and lasting work we must dare to be simple, must have the courage to fling aside every device that distracts the eye from structural beauty, must break through convention and get down to fundamental truths. Through force of custom and education we, in whose hands much of the beauty of country and city is entrusted, have been compelled to study the style of other men, with the result that most of our modern work is an open imitation or veiled plagiarism of another's idea. To break away from this degradation we must boldly throw aside every accepted structural belief and standard of beauty and get back to the source of all architectural strength—the straight line, the arch, the cube and the circle—and drink from these fountains of Art that gave life to the great men of old.

Every artist must sooner or later reckon directly, personally with these four principles—the mightiest of lines. The straight line borrowed from the horizon is a symbol of greatness, grandeur and nobility; the arch patterned from the dome of the sky represents exultation, reverence, aspiration; the circle is the sign of completeness, motion and progression, as may be seen when a stone touches water; the square is the symbol of power, justice, honesty and firmness. These are the bases, the units of architectural language, and without them there can be no direct or inspired architectural speech. We must not weaken our message of beauty and strength by the stutter and mumble of useless ornaments. If we have nothing worth while to say with our building then we should keep quiet. Why should we chatter idly and meaninglessly with foolish ornaments and useless lines?

Any deviation from simplicity results in a loss of dignity. Ornaments tend to cheapen rather than enrich, they acknowledge inefficiency and weakness. A house cluttered up by complex ornament means that the designer was aware that his work lacked purity of line and perfection of proportion, so he endeavored to cover its imperfection by adding on detail, hoping thus to distract the attention of the observer from the fundamental weakness of his design. If we omit everything useless from the structural point of view we will come to see the great beauty of straight lines, to see the charm that lies in perspective, the force in light and shade, the power in balanced masses, the fascination of color that plays upon a smooth wall left free to report the passing of a cloud or nearness of a flower, the furious rush of storms and the burning stillness of summer suns. We would also see the glaring defects of our own work if left in this bold, unornamented fashion, and therefore could swiftly correct it.

I believe if we continually think more of line, proportion, light and shade, we will reach greater skill in handling them, and a greater appreciation and understanding of their power and beauty. We should build our house simple, plain and substantial as a boulder, then leave the ornamentation of it to Nature, who will tone it with lichens, chisel it with storms, make it gracious and friendly with vines and flower shadows as she does the stone in the meadow. I believe also that houses should be built more substantially and should be made absolutely sanitary. If the cost of unimportant ornamentation were put into construction, then we should have a more lasting and a more dignified architecture.

In California we have long been experimenting with the idea of producing a perfectly sanitary, labor-saving house, one where the maximum of comfort may be had with the minimum of drudgery. In the recent houses that I have built the walls are finished flush with the casings and the line where the wall joins the flooring is slightly rounded, so that it forms one continuous piece with no place for dust to enter or to lodge, or crack for vermin of any kind to exist. There is no molding for pictures, plates or chairs, no baseboards, paneling or wainscoting to catch and hold the dust. The doors are single slabs of hand-polished mahogany swung on invisible hinges or else made so that they slide in the wall. In some of the houses all windows and door frames are of steel. They never wear out, warp or burn, a point of importance in fireproof construction. The drain boards are sunk in magnesite which is made in one piece with the walls and all cornices rounded, so not a particle of grease or dirt can lodge, or dampness collect and become unwholesome. The bathtubs are boxed and covered with magnesite up to the porcelain.

By this manner of building there is no chance anywhere in the house for dust to accumulate. This minimizes the labor of keeping the house clean and gives the rooms a sweet, pure, simple and dignified appearance. The money usually wasted in meaningless gables, swags, machine-made garlands, fretwork and "gingerbread" goes into labor-saving devices or into better grade of material. As much thought goes into the placing of the ice-box

it can be added from the outside without tracking through a clean kitchen, or the letter box that can be opened from within the house, or the proper disposal of the garbage can, or the convenient arrangement of kitchens so that meals may be prepared with the greatest economy of labor, as is often expended in the planning of the pergola or drawing rooms.

There is something very restful and satisfying to my mind in the simple cube house with creamy walls, sheer and plain, rising boldly into the sky, unrelieved by cornices or overhang of roof, unornamented save for the vines that soften a line or creepers that wreathe a pillar or flowers that inlay color more sentiently than any tile could do. I like the bare honesty of these houses, the childlike frankness and chaste simplicity of them. It seemed too peculiar an innovation at first to make a house without a large overhang roof, for we have been so accustomed in California to think them a necessity, but now that the first shock is over people welcome the simplicity of the houses built without these heavy overhangs and see that they really have distinction.

In the West, home building has followed, in the main, two distinct lines—the Spanish Mission and the Indla bungalow. True, we find many small Swiss chalets clinging perilously to canyon walls, imposing Italian villas facing the sea and myriad nameless creations whose chief distinction lies in the obvious fact that they are original, different from any known type of architecture. It were much better for California if there were less complicated, meaningless originality and more frank following of established good types.

Because of the intense blue sky and sea that continues for such long, unbroken periods, the amethyst distant mountains that form an almost universal background for houses or cities, the golden brown of summer fields, the varied green of pepper, eucalyptus and poplar trees that cut across it in such decorative forms and the profusion of gay flowers that grow so quickly and easily, houses of a bright romantic picturesqueness are perfectly suitable that would seem too dramatic in other parts of the country. They seem a pleasing part of the orange-belted flower fields and belong to the semi-tropical land. These same houses would certainly look artificial and amusingly uncomfortable and out of place in the East; but they essentially belong to the land of sunshine.

The contour, coloring and history of a country naturally influences its architecture. The old wooden Colonial houses of the East, shaded by noble elms, ith their attendant lanes and roads outlined by stone walls, perfect pictures of home beauty; the stone houses of Pennsylvania, beautiful of color, stately, eloquent of substantial affluence and generous hospitality; and the adobe houses of the Arizona Indians formed of the earth into structures so like the surrounding ledges and buttes in shape that they can scarcely be told from them, and which are triumphs of protective, harmonious building, are familar types of buildings characteristic of their locality.

California is influenced, and rightly so, by the Spanish Missions as well as by the rich coloring and the form of the low hills and wide valleys. The Missions are a part of its history that should be preserved and in their long, low lines, graceful arcades, tile roofs, bell towers, arched doorways and walled gardens we find a most expressive medium of retaining tradition, history and romance. In coloring and general form they are exactly suited to the romantic requirements of the country. It is safe to say that more architectural crimes have been committed in their name than in any other unless it be the Grecian temples. The facade of the San Diego Mission is a wonderful thing, something that deserves to be a revered model, something to which local building might safely and advantageously have been keyed. Instead of this it has been abused and caricatured in the most shocking way. Its charming proportions and graceful outline have been distorted to adorn tall public buildings, low railway stations, ornate hotels, cramped stables and minute private houses in the most irreverent, inexcusable and pitiable way. The arched cloisters of the Missions have been seized upon and tortured until all semblance of their original beauty has been lost. Their meaning and definite purpose—that of supporting the roof on the second story and thus forming a retreat or quiet walk for the monks—has been almost forgotten.

The arch is one of our most imposing, most picturesque and graceful architectural features. Its power of creating beauty is unquestionable, but like any other great force, wrongly used, is equally destructive. Fire warms and cheers us and cooks our food, but if not carefully handled destroys everything it touches. The Missions have taught us also the beauty and usefulness of the court. Romana's house, a landmark as familiar in the South as some of the Missions, was built around three sides of an open space, the other side being a high garden wall. This home plan gave privacy, protection and beauty. The court contains a pool and well in the center and an arbor for grapes along the garden wall; the archway that runs along the three sides formed by the house made the open-air living rooms. Here were arranged couches for sleeping, hammocks for the siesta, easy chairs and tables for dining. There was always a sheltered and a sunny side, always seclusion and an outlook into the garden. In California we have liberally borrowed this home plan, for it is hard to devise a better, cozier, more convenient or practical scheme for a home. In the seclusion of the outdoor living rooms and in their nearness to the garden, the arrangement is ideal.

Another thing that has influenced California architecture is the redwood that is so abundant and so different from anything in the East. In color it is a low-toned red that looks as though it were lighted by sun rays. It blends harmoniously with the clear atmosphere of the country, it is inexpensive, easily handled and outlasts almost any known wood, for it does not rot when standing in the ground nor when subject to continued dampness. Split into long, narrow shingles called shakes, or into long clapboards, it makes strikingly beautiful houses. Furniture of simple lines is also made of it, and though it is frequently oiled or varnished or bitten by acids to a soft gray tone it is more often left in its own lusterless beauty. Redwood houses look as natural a part of the forest and canyon as a tawny mushroom or gray stone. Delightful little home-made cottages of redwood are to be found all through California. They cost their owners but a few hundred dollars. These camps or week-end houses are the very apple of the people's eye. Everybody has one and lives therein happier than any king, enjoying a simple, free, healthy life, breathing eucalyptus and pine-scented air, resting full length in flower-starred grass, bathing in the fern-bordered streams. As contrast to these myriads of comfortable, lovable little camp homes that can be built for three or four hundred dollars and that look as picturesque and fascinating as any bird's nest, are beautiful palaces of concrete for people possessed of many acres, built with every modern convenience and every device for creating beauty, with fountains, swimming pools, sun parlors, outdoor dancing courts and lawn, pergolas, tea houses, art galleries and a thousand other wonderful things that contribute to elaborate and luxurious living.

LADIES' NIGHT AT THE GENERAL CONTRACTORS' ASSOCIATION.

Al Pape, of the Paraffine Paint Company, is one of the most artistic assemblers of talent for an entertainment that there is in the country. If anyone doubts this broad statement, he has only to attend the Ladies' Night at the General Contractors' Association on April 29th and be convinced. Al has a wonderfully balanced bill, containing laughs without number, music, dancing and novelties.

Mr. L. A Larsen, whose local fame is well established, and who possesses a rich resonant vibrant voice, has kindly consented to give a vocal selection.

Miss Dorothy Isabel Symon, who is considered the equal of Isabel Duncan, will be seen in Grecian dances. Miss Symon has the face and figure to correctly interpret these difficult figures and her portrayal is classic.

Al Pape, assisted by Miss Alice Figone and Henry Will, will appear as mechanical dolls. This is a particularly meritorious and original creation, which will be an eye-opener to the Association. The fashion magazines contain no illustrations comparable with these dolls, and the whole act is a scream from start to finish.

Walfish and McKenzie are rare fun makers and their comedy is bound to be appreciated and make a big hit.

The California Quartette, who need no introduction, will render a number of up-to-date selections.

There will be boxers from the Olympic Club, giving an exhibition boxing contest. No purse is hung up for this event and no betting will be allowed, but it will be a clean scientific demonstration of the manly art.

Bly and Sutcliffe in their acrobatic comedy turn, have an act that is novel, and something entirely different from anything ever seen before.

Williams and Linnaree give a take-off on a wrestling bout which is excruciatingly funny. It is a contest between a giant and a rather small man, a sort of David and Goliath affair.

Music lovers will be captivated with the masterly handling of the violin by Leo Vezina. Mr. Vezina is the son of contractor Vezina and his natural talent has been developed by the best of instructors. He will give several selections upon this semi-human instrument.

Miss Brown and Miss Clark, premier dancers from the Bird of Paradise Company, will present some intricate and expert dancing. These are artists in every sense of the word.

A stage is being built especially for this occasion, with curtain and scenic drops, and all the accessories necessary for an event of this kind. Even the spot-light will not be wanting, but will be continually in evidence through the evening. All this has involved a tremendous amount of labor, and the committee appreciates the marvelous and tireless activity of Al Pape.

On this evening also, Mr. John Miller White will have on exhibition on the walls of the Association quarters, some of his more recent paintings. Mr. White was formerly engegad as a mason contractor in this City, but forsook the utilitarian for the artistic.

Following the entertainment will occur the dance, during which light refreshments will be served. Mr. R. G. Guyett is chairman of the floor committee and Mr. Herman Lawson will have the refreshments under his immediate charge. Mr. P. J. Lynch, as chairman of the entertainment committee, will have supervision over the whole affair.

An orchestra of five pieces has been engaged for the evening, which is destined to go down in the annals of the building business as one of the most successful and artistic entertainments ever given.

THEATED WOOD BLOCK FLOORING.

WASHINGTON, April 27, 1916—Creosoted wood blocks, already extensively used as paving material for city streets, have been coming into use as flooring for the last four or five years, according to the Forest Service. Its durability, noiselessness under heavy traffic, and sanitary properties are its chief advantages for paving and also gives it special value for making floors, especially for use where heavy trucking, the moving of heavy machinery, or other severe use makes the maintenance of floors a serious problem. Its rather high cost is its chief disadvantage.

Wood block is now widely used for flooring in factories, warehouses, machine shops, foundries, various types of platforms, wharves, and docks, and for such miscellaneous purposes as hotel kitchens, hospitals, laundries, and slaughter houses. Possibly one of the oddest of these uses is for the floors of wild animal cages and runways. Notwithstanding the recent increase in the use of wood block for these purposes, it is believed that the growth of this industry will be even more rapid in the future. These floors are well liked by the workmen because they are easy on the feet.

Most of the blocks for these floors are now made of southern yellow pine. Hemlock, larch, Douglas fir, black gum, beech and maple are also used. The blocks are sawed from long sticks of timber and are treated in huge steel cylinders from 6 to 7 feet in diameter and 100 feet or more in length. Creosote oil is run into the cylinders and pressure is then applied to force it into the wood. The oil is a product obtained in the manufacture of coke from coal and its purpose is to prevent decay of the wood, and also to prevent shrinking and swelling of the floor after it is laid.

The blocks are laid with the grain vertical, so that the most wear-resistant surface is exposed, and usually on a concrete foundation. The joints or cracks between the blocks are then filled with hot paving pitch or asphalt which binds the many separate pieces into one continuous surface. According to the experts, the cost of creosoted wood-block floors averages about $1.50 per square yard for the blocks alone and about $2.10 per square yard for the completed floor.

For the best results these floors should be laid under competent supervision, for unless certain fundamental rules are followed trouble is very liable to ensue. Most of the trouble is caused by the swelling or the shrinking of the wood, due to changes in content of moisture, difficulties which may be guarded against, however, by carefully following the most approved methods.

USE LIGHTER PAPER.

WASHINGTON—The Department of Agriculture recommends the use of lighter weight papers to relieve the present stringency in paper making materials. Many publishers and many users of wrapping papers have adopted this plan, it is said. In a single year the government by this plan effected a saving of $38,000.

CEDAR LOGS FOR PENCILS.

SISSON—W. M. Elkins has taken the contract to cut 1,500,000 feet of cedar logs for lead pencils this season. Timber will be taken from the cut-over lands of the McCloud River Lumber Co. two miles from McCloud.

SAN FRANCISCO-PENINSULAR CO. START ON EXTENSIVE IMPROVEMENTS AT SAN CARLOS, SAN MATEO COUNTY.

Many new buildings are to be erected in San Carlos, San Mateo County, in the near future by the San Francisco-Peninsular Co. with R. P. Hurlbut in charge of all construction work for the company.

They have purchased the Ohio State Building at the Fair for the Peninsular Country Club. The building is now being placed on skids preparatory to loading on barges for transportation by water to the shore of San Carlos Channel, a quarter of a mile from the County Road and directly east of San Carlos station.

The first piece of work started is the erection of a ten room residence to cost $8,000 by Mr. Hurlbut for his home, which is now underway. This building will contain all modern improvements.

While R. P. Hurlbut will have direct charge of the work at San Carlos, Mr. F. J. Melbourn, with whom R. P. Hurlbut is associated in the construction field, will represent the firm in San Francisco.

The San Francisco office of the San Francisco-Peninsular Co. is at 232 Montgomery street and the office of Hurlbut & Melbourn is located at 46 Kearny street, San Francisco.

GENERAL CONTRACTORS' ASSOCIATION LADIES' NIGHT.

Clarence Hot-Air Pratt,

My Dear Hot-Air;

Your concrete mix of April 25, expressed the wish that Shakespeare and Longfellow were alive, to write upon the merits of your concrete mix and tile. I think if they were living, they would hesitate to write upon the subjects you relate; but if they did, I feel that this would be their spiel and style.

Shakespeare:

Friends, Builders, Contractors; lend
me your ears.
I come to talk concrete mix, not
cursed loam
That will not concrete make in steen
years;
But good, nature mixed ingredients
From where the Yuba's flood rolls on
Uninterruptedly.
An honest mix, good honest sirs, believe me,
From Nature's laboratories disinterred.

Longfellow:

Fires of all kinds, all remind us,
We can fireproof all the while;
If we let no shoddy blind us
To the worth of Hercules tile.

Let us then be interlocking
With a tile that lays quite flat;
Ever building, never knocking
Clarence Sandstone Pratt.

But Clarence dear, my object now to write, is to implore you, please remember Ladies' Night. Forget your work, your cares transfix; what matter, say, if you forget your mix; but on my knees, I beg you please do not forget this Saturday. Forget your worries, trouble, sorrow; for on this night you'll surely borrow gladness from the wells whence Young Joy springs. You will delight in ladies' glances, you'll sure enjoy the fancy dances, you'll be entranced when Larsen sings.

STATE CORPORATION DEPARTMENT.

SACRAMENTO, Cal.—How one of the measures adopted by Commissioner of Corporations H. L. Carnahan for the protection of investors in corporate enterprises in California is working out, is indicated by the fact that more than twenty-one million shares of stock in various companies, having an aggregate par value of more than thirty million dollars, is now held on deposit, or has been ordered deposited, so that it cannot be sold or offered for sale except by permission of the Commissioner.

After a little experience, it was found that one of the worst evils in the promotion of companies was the practice of the promoters to take stock for their services or in exchange for patents or contracts or mining claims, or other property of unproven and intangible value, and then to unload it on the public under the representation that the proceeds were to finance the enterprise. Instead, the money went into the pockets of the promoters, the company sold little or no stock and was never able to secure enough capital even to demonstrate the practicability of the enterprise, which it was formed to carry through. As a result the stock was worthless, the enterprise a failure, the stockholders victimized and the only profit went to the promoter who

then proceeded to form another company and repeat the operation.

The policy of the Commissioner has been not to deny to the promoter of a legitimate enterprise fair compensation for his services, for the patents upon which the company proposes to build its business, or the mining claims which it proposes to develop, but he requires in such cases that all stock permitted to be issued for such intangible values shall be deposited as an escrow either with the State Corporation Department or with any bank or other responsible depositary. This stock cannot be sold or offered for sale except by permission first obtained from the Commissioner. The company then proceeds to sell its treasury shares and the money received from these shares must be used for the development of the enterprise. In this way, the company has a chance to make good and is not hampered through the flooding of the market with promotion stock. If the company wins, the promoter or inventor wins with the company, but he cannot take his profit until he has made good for the other stockholders.

All of this thirty million dollars worth of stock does not represent promotion shares. In some cases the incorporators of a private company desire to divide stock among themselves where the par value of the shares is verly largely in excess of the value of the assets acquired by the corporation. An escrow of the shares is also required in such cases until the company has assets approaching the par value of the shares issued so that they cannot be marketed until there is value behind them approximating the selling price.

Most of the thirty million dollars, however, represent purely intangible values which may develop into real values, in which case the stock will be released.

The Commissioner believes that under this plan more companies will succeed, an in all cases that the stockholders will be assured at least a better run for their money—not only because promotion stock cannot be marketed in competition with the company's efforts to finance itself but also because the promoters who conceived the enterprise and upon whom its success largely depends must stay with the company and work for its success in order to make their own stock good.

REPORTS OF STATE REVENUE.

SACRAMENTO — The State's receipts during the fiscal year were $23,-820,182 and the expenditures were $36,-529,539, according to the annual report of State Controller John S. Chambers, submitted recently. The receipts in the incorporated cities were $68,724,-578 and the expenditures were $69,922,-592. The counties collected $92,938,-440 and spent $95,218,542.

A YEAR'S WORK IN FOREST SERVICE INDUSTRIAL INVESTIGATIONS.

WASHINGTON, D. C.—The annual report of the Office of Industrial Investigations of the Forest Service shows developments in its work of direct interest to the wood-using industries and consumers of forest products generally.

One new phase of this work is the formation of a wood waste exchange and the collection of detailed information regarding the supply of wood waste and the demand for it. This information is made available in the form specific quotations from bona fide buyers and sellers of waste who cooperate by supplying complete information regarding the exact form, species, sizes, and amounts of waste available or desired. Schedules requesting this information were sent to a number of wood-using establishments and a list was gradually built up. It now contains the names of several hundred manufacturers. Lists of opportunities to buy or sell waste are published every three months and sent to the various co-operators. Manufacturers have co-operated heartily and reports of sales are being received regularly.

A large amount of specific information has been made available to the public regarding the location of manufacturers, buyers, sellers, importers, and exporters of forest products. Detailed information has also been collected regarding the forms of raw material needed or available at various establishments and the value of various products f. o. b. mill and at the principal markets. Records of lumber prices secured in co-operation with various lumber associations from mills throughout the United States were issued quarterly. Besides the records that have been issued in former years for the important woods in the principal producing regions, quarterly records were added for spruce and hemlock in West Virginia, New York and New England, and for cedar poles in Minnesota and chestnut poles in the East. Information as to conditions involved were obtained whenever possible. A directory of American sawmills was compiled in co-operation with the Department of Commerce, showing the kind of lumber cut by each mill, the forms and dimensions of its products, and the railroads over which the material is shipped.

In co-operation with the Bureau of Crop Estimates, statistics on the lumber production of the United States were collected and a report published covering the year 1913, which showed the production of nearly as much lumber in that year as in 1912. Steps were taken, in co-operation with American Wood Preservers' Association, to secure for the coming year statistics on the number of poles and ties and the amount of various other kinds of forest products purchased by the principal railroad, telephone and telegraph companies; and a report on the amount of wood preservatives used and the amount of timber treated in the United States in 1914 was published. Approximately 100 plants co-operated in supplying information regarding the amount of wood preservatives used, including practically all of the establishments of importance engaged in the industry.

Data was also compiled on the veneer, box and cooperage industries. A preliminary report on the box industry was published in co-operation with the National Association of Box Manufacturers. This report furnished information of use to the industry, and to the Interstate Commerce Commission in their investigation of shipping containers. It was also made use of by the American Society for Testing Materials in working out standards for shipping containers.

This office has also enlarged its activities in co-operation with various other branches of the Federal Government. The work has been chiefly the inspection of lumber, the revision of specifications, the furnishing of information regarding prices and the suitability of various woods for particular uses, the suggestion of better methods of handling and storing lumber, and the preparation of lists of bidders on various products. At the request of the Navy Department, a study was made of the methods of handling and piling lumber at various navy yards, and a report was prepared in which recommendations were made regarding the best means of preventing deterioration. A larg amount of lumber was inspected for the Navy Department at various points east of the Mississippi. Generally the object of the inspection was to determine whether the shipment was up to grade called for in the specification; but occasionally the Forest Service was called upon for the identification of species. Specifications for grading hickory handles were prepared and were adopted by the Navy Department, the War Department, and the Panama Canal. The Panama Canal used these specifications in the purchase of a large number of handles during the year. The specifications are coming more and more into commercial use, and eleven large railway systems have adopted them in one or more of their divisions.

A field study of southern pines in the Carolinas, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas and Missouri was conducted to determine the quality of lumber in the typical markets in the East and Middle West. The work resulted in the collection of data of immediate practical use in connection with the preparation of more satisfactory rules for grading structural timbers.

The reports on the wood-using industries of the various States were continued, and three new reports were published—Pennsylvania, New Jersey, and Georgia. This makes a total of 33 State wood-using industry reports issued so far. Reports for Indiana and West Virginia were completed and placed in the hands of the publishers. Data on the wood-using industries of the remaining States have been collected. A final report on the wood-using industries of the United States is in preparation, in which combined data collected in the various studies will appear by species and by industries.

Many requests were received from the public for information regarding the most profitable uses of certain woods, the markets for them, the most satisfactory woods for certain uses, where they may be obtained, etc. Inquiries come from small sawmills owners, timber owners, and manufacturers of finished and semi-finished products. Through the wood-using industry studies the office is well equipped to give such information. A large amount of utilization data is compiled monthly, including lists of wood-using establishments and specifications for raw material, and will be used for the benefit of lumbermen, wood-lot owners, and the Forest Service co-operators throughout the United States.

In connection with the general lumber industry study now being carried on by the Forest Service, the Office of Industrial Investigations has studied the adaptation of grading and manufac-

uring to consumers' needs, particular attention being given to yellow pine and oak. Data were compiled also on the relative value of oak logs in lumber, veneer, cooperage and ties.

SIDEWALK INSPECTOR SERIOUSLY INJURED.

Inspector D. J. O'Brien, one of the oldest employees of the Board of Public Works, was struck by a car at Twenty-eighth avenue and Geary street yesterday afternoon and lies seriously injured at the Central Emergency Hospital. At the time of going to press surgeons at the hospital stated that he had little chance for recovery.

Mr. O'Brien, who is sidewalk inspector in the Bureau of Streets, has been employed by the city for the last 28 years. He is about 65 years of age.

STORE FIXTURE CONTRACT AWARDED.

Allen Bros., of Burlingame, Cal., has awarded a contract to Fink & Schindler Company for store fixtures for their new haberdashery store.

RAILWAY EXCURSION RATES.

To encourage Sunday outings in California the Southern Pacific Company announced recently that commencing April 30th, round trip tickets to most points in this state where the one way fare is 50 cents or over but does not exceed $5 will be sold on a basis of one fare for the round trip. They will be good on all trains on Sundays but will be good for return only on trains leaving before Sunday midnight. An illustration of what the new tariff arrangement means, a person desiring to visit San Jose on Sunday could go down there and back for the same amount of money he would have to pay on week days to make the trip one way.

INDUSTRIAL DEATHS REDUCED.

The Industrial Accident Commission has just issued figures giving the number of deaths in the industries of California durnig the year 1915 and draws attention to the list as compared with the statistics for 1914. In the latter year there were 691 workers killed and in 1915 533 workers gave their lives to the industries of this States. The following table shows the reductions in the death list of occupations (the word "Service" includes employees of men in the professions, as well as those engaged in hotel service, apartment houses, restaurants, domestic servants and amusement or entertainment employees):

	1915	1914
Agriculture	55	62
Construction	78	115
Extraction (Mining and Quarrying)	71	86
Manufacturing	99	121
Service	25	24
Trades	20	24
Transportation and Public Utilities	172	239
Unknown	13	20
Total	533	691

The effective work in behalf of "Safety First" has been accomplished as a result of cordial support from employers and employees, the public generally, and the press of California. It is a striking result to be able to show a reduction of 158 in the death roll of 1915 as compared to 1914. That this reduction comes as the result of careful planning is shown by the decrease in the main industries of the State, excepting Service, where the record shows an increase of one death in 1915 over 1914.

It is the hope of the Industrial Accident Commission that statistics will show a substantial reduction for each succeeding year. The aim is that no preventable death shall take place. The 158 lives speak in terms of breadwinners saved to wives and little children and an enrichment to the state's citizenship.

INDUSTRIAL RAILWAY PROJECTED IN CHILE.

ANTOFAGASTA, CHILE — Permission has been granted by the Chilean Government for the construction of a railway line to extend from a point near Kilometer No. 109 on the railway from Antofagasta to Bolivia, towards some nitrate deposits known as "Los Penitentes" and "Caravanas." The length of the branch is about 8 kilometers (4.97 miles) and the gauge of the track 30 inches.

[The name of the person to whom the concession to build the railway has been granted may be obtained from the Bureau of Foreign and Domestic Commerce Customhouse, San Francisco. Refer to file No. 74747.]

CHINESE CHAMBER OF COMMERCE BUILDINGS AT SHANGHAI.

Consul General Thomas Sammons reports that the new Chinese chamber of commerce buildings at Shanghai were formally opened on March 18. The main building is a substantial brick structure, built in foreign style, having three floors for offices, private and public meeting quarters. The old temple of the Queen of Heaven has been removed for the purpose of accommodating this new and modern industrial temple dedicated to Chinese commerce. These buildings cost approximately $50,000.

PHILIPPINE SUGAR CENTRAL PLANS CHANGED.

MANILA, P. I.—The Sugar Central Board, created by the Government to have charge of the expenditure of the $1,000,000 which it was proposed to use for the construction of a large sugar central at Isabela Negros, has decided that it is not advisable to undertake the construction of the central at this time owing to the shortage of Government funds available for the project. As a substitute proposal the collector of customs, who is a member of the board, will go to the United States to undertake the purchase of a second-hand mill to cost less money than it was proposed by the legislature to expend on the project. He will leave soon.

RULE AFFECTING MARINE BOILER TESTS MODIFIED.

An amendment to the rules and regulations of the United States Steamboat Inspection Service modifies the provision for the required tensile strength of a test piece in connection with the stays or braces used in marine boilers. The new provision is that when the tensile strength of the test piece is more than 63,000 pounds per square inch of section each test piece that has been reduced in size shall show an elongation of at least 26 per cent in 2 inches. The former figure for the tensile strength was 66,000 pounds.

AMERICANS TO AID RECONSTRUCTION IN FRANCE.

The American Manufacturers Export Association of New York, a national body including several hundred of the largest manufacturing exporters in the United States, is now organizing an American industrial commission to visit France during June and July next with the full approval and co-operation of the French Government, for the purpose of making an exhaustive and technical investigation of present conditions in that Republic, looking to the reconstruction and reorganization of her communities and industrles that will take place now and after the war to an extent unparalleled in history. All of the industries of the United States concerned in French trade will be represented in the personnel of the commission, which will be chosen from among men of broad technical experience and national reputation in their respective lines to insure a result both conclusive and effective.

The principal industrial cities and sections of France will be covered by the itinerary, and assurances have already been received that the project will have the support of the leading chambers of commerce and other great economical associations in France.

In addition to manufacturers, the commission will represent bankers, factory architects, contractors, and importers. Special emphasis is being placed upon the desire of the promoters of the enterprise to bring about increased and fully reciprocal commercial relations between the two countries beyond the needs of the immediate future.

Already plans are being evolved in France, not only for rebuilding those of her factories which have been destroyed by the war, but for equipping with the most modern machinery her existing industries, and putting these in a condition to increase their output and to enable France to meet on equal terms the tremendous competition which is expected to follow the close of the war.

CLARENCE E. TODD, Secretary.

STATE CORPORATION DEPARTMENT.

SACRAMENTO. — Commissioner of Corporations H. L. Carnahan has authorized Ruby King Mineral Paint Company to sell 50,000 shares at 50c per share, the proceeds to be used in paying indebtedness to the amount of approximately $13,000 and to further equip its reduction plant. The company's properties are situated in Colusa County and it has expended approximately $50,000 in development work and equipment. Shares are to be sold to net the company not less than 80% of the selling price.

STUCCO AS AN EXTERIOR WALL FINISH.

(In The Redwood)

M. J. Selaya, A. E., '19, University of Santa Clara.

While stucco has been a factor in building construction for centurles

past, the recent economic production, through the general use of Portland cement, has so materially enlarged its sphere of usefulness that it is regarded in the light of a new product. The very fact that added strength and durability has been given it by this powerful medium has done much to encourage men to regard it as a legitimate covering for the protection and beautifying of porous and unsightly walls.

It reached a high state of development first with the Persians, Greeks and Romans, an dlater with the Moors. On this continent stucco was used extensively in Colonial days, chiefly by the Dutch settlers in New York and the Germans in Pennsylvania. It generally provided a covering for rubble walls, the stone being laid in what was a little better than clay mud. Cement at that time was unknown and lime an expensive imported material. These crudely built walls soon began to deteriorate under the action of rain and frost, and to protect them an application of stucco was made, composed of sand and shell lime. This mixture did not resist the repeated attacks of water and cold any too well and therefore was itself partially protected by wide overhanging eaves giving origin to the well-known "Germantown Hood" and the projecting roof lines of the Dutch Colonial style. Again we find mud stucco in the adobe huts of Mexico, lime stucco in the Missions of California and coral stucco in Florida and Bermuda. However, until the advent of Portland cement, stucco was not able to withstand the ravages of time except in countries where the climate was warm and dry.

Stucco as it is prepared today is a carefully porportioned mixture of Portland cement and sand or pulverized stone with the addition of water, applied as a covering to the unfinished outside wall of a structure, the construction of the wall being either stone, brick, tile, concrete or wood. Lime is often used as an ingredient of stucco to make it more plastic and so that the mixture will work easier under the trowel. If ordinary quicklime is used, however, its admission is more than likely to be for the purpose of effecting a saving in cost. This is poor economy, for caustic lime as ordinarily prepared at the building site is a factor neither of strength nor of durability. If it is desired to use lime it should be hydrated.

Hydrated lime is a compound formed by the union of lime and water. Fresh caustic lime is crushed and treated with just sufficient water to combine with it chemically, producing a dry powder.

Fascinating as the old wooden houses are, they are not in sympathy with the present day civilization. Wooden buildings cannot keep pace with the march of progress and it indicates no lack of respect for these one-time giants of architecture to suggest that their propagation cease.

The day of wood for the exterior covering of the house has gone by and stucco has largely taken its place, curiously enough, stucco lends itself with extraordinary readiness to almost any architectural design that may be suited to the particular environment. That the lay of the land and the needs and characteristics of the occupants determine the style of architecture to be employed is an undisputed fact, but it is no exaggeration to say that there are few or any instances in suburban or rural communities of America where sand and gravel prevail that stucco can not be fittingly employed to express the spirit of the neighborhood.

The poor quality and costliness of wood and its steady decay, have not been the only factors in spurring men to search for better structural materials. The horrors and losses due to fire have shocked and aroused them into activity, and the promised advent of unburnable houses at moderate costs is a cause for great rejoicing. The fact that his house will stay put up for centuries does not interest the American as keenly as does the assurance that it will not disappear over night with all his treasures. Incidentally he is pleased to know that the maintenance and insurance will be reduced to a minimum.

From an artistic standpoint perfect uniformity of shade in stucco is not essential or even desirable. A certain amount of blending variation in tone is pleasing to the eye while a perfectly even color lacks character. Of course an abrupt line of demarcation such as would be procured by a radical change in the mixture, or the difference in workmanship of one man from another or from a change in weather during the operation, is not always desired. One thing should not be lost sight of; a finished stucco house looks its worst at the moment of completion. It continues to improve in appearance with age.

If stucco of a decided color is desired, only mineral colors should be employed, but should be used sparingly and limited to carbon black, ochre and red oxides of iron and their combinations. It should be borne in mind that coloring matter reduces the strength of the stucco. However, very pleasing shades may be obtained without the use of pigments: for instance, grayish white, pure white and light buff. The first is secured by mixing crushed white quartz with ordinary gray cement; the second by marble dust with white cement, and the third by yellow sand or gravel with white cement. If pigments are used they should be mixed dry with the sand or gravel and then with the cement. A uniform mixture can not be obtained if the ingredients are wet. Mixing in paste form is sure to distribute the color unevenly, and the trowel striking a lump of color will produce a spot or streak. By mixing the ingredients dry, a sufficient amount for the entire operation may be made and kept until needed, water being added to such quantities as may be immediately required. This method prevents the unevenness in color that generally occurs when "batches" are mixed at different times

Stucco has a great deal to recommend it in house construction, but like most things also has its conspicuous drawbacks. When properly mixed and applied it is durable, inexpensive to maintain, giving a warm covering in winter and a cool one in summer, pleasing to the eye and susceptible to an unlimited number of variations in texture and color. When badly or carelessly made and applied no material could be worse, for if it does not fall off entirely it will peel off in sections, bulge, crack, absorb water, spot, streak and take on either a dull gray or mixture of tints as the ill chosen or poor workmanship has determined

Stucco should never be applied in freezing weather. If the water freezes before the cement has set, the stucco will not harden. Nor should stucco ever be distributed before the cement has set, otherwise it will not adhere to the surface to which it is applied. Stuccoing should always be started at the top of the building and the work carried downward to some projecting members. If it is impossible to complete an entire wall during one operation, the work should be halted at some division line, such as a band window or door. If three coats are applied, the surface of the first and second should be deeply scratched while they are wet, and three coats are desirable if the finish is to be smooth. For a rough coat and pebble-dash finish, two coats will suffice, but the total thickness of the stucco should not be less than one inch.

The fine hair-cracks that frequently appear upon the finished surfaces of stucco are generally due to the rapid evaporation of the water before the cement has had time to set. These cracks may be largely avoided by stuccoing on a dark, cloudy day when there is little or no wind, or by protecting the stucco from the sunshine and breeze by means of screens or other devices.

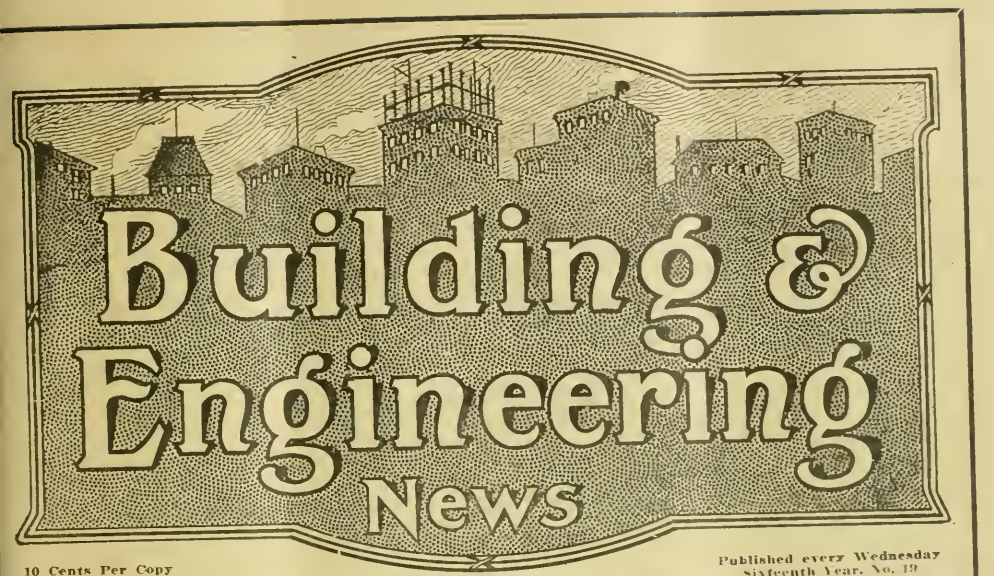
An occasional crack if not too large, or due to a structural defect is not a serious blemish. In fact a flawless one-toned wall is apt to be painfully monotonous and must be partly covered with vines before it can lay claim to any beauty.

Vines are essential as a covering to outside walls as draperies and pictures are to the inside plastered walls of a room. They relieve the monotony of an expanse of wall and soften its rigid lines. Contrary to the generally accepted idea that vines induce dampness into the walls on which they cling, the foliage acts as a protection, shedding the water and breaking the force of a driving storm. A stucco wall or surface of brick or stone for that matter rarely becomes a part of the landscape until it receives a dress of creeping and clinging foliage.

Lattice or trellis work is a valuable adjunct to stucco in breaking up a too uniform stretch of wall surface and in concentrating the eye about some salient feature such as the door or archway. It serves as a support for vines and affords an effective and inexpensive form of decoration.

It is not necessary for the finish of stucco to be spotless and even in tone, provided the variation in color is agreeable and not caused by the use of unclean materials. The softening tones which age will give to the stucco improves its appearance, and consequently there are many instances where an unevenness in color upon the completion of the work needs no quarrel with the contractor. The conception of the architect should determine whether or not the appearance is such as will contribute or detract from the completed picture a few years hence.

Wood flour mills are scattered over the country from Maine to California wherever the proper combination of wood and water power is available, and the domestic wood flour competes with the Norwegian product which, before the European war, was delivered at Atlantic ports for $12.50 to $15 per ton.



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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EXPORT SUGGESTIONS FROM THE GOVERNMENT.

WASHINGTON, D. C.—The insistent demand for information on foreign-trade subjects has led to the publication of a book of practical suggestions by the Bureau of Foreign and Domestic Commerce, Department of Commerce. These suggestions are not concerned with the sale of any particular line of goods in foreign markets, but with the vexing problems which sooner or later confront exporters in every line, such as questions of credit, agencies, and packing.

The much discussed question of extending credits to foreign buyers is gone into at considerable length in the bulletin, as there seems to be a disposition on the part of American exporters to regard as permanent the present short-term and cash business with countries that previously demanded long credits. A special warning on this subject is directed at manufacturers who prefer to do their foreign business direct: "Foreign buyers who are willing to pay you cash now—especially is this true of European buyers—will not do so after the present extraordinary conditions have ceased to exist. You must face the fact that if you intend to do a direct export business you must be prepared to finance your shipments at 90 days sight or longer. This statement does not mean that you can not do an export business on any other basis. It means that if you want your money in advance or cash at seaboard you must do business through a middleman. This cannot be put too strongly, as there is no other alternative."

The absurdity, under present conditions, of turning over Latin-American business to representatives of European concerns without a guaranty of continued representation when the war is over is pointed out. A striking example is cited in connection with the sale of stearic acid in Central America. This product was formerly supplied in considerable quantities, but some years ago a European house put a permanent representative in the field and captured practically the entire trade. The war made it impossible to fill orders from the home plant, so the agent has been buying in the United States. Some American firm is doubtless congratulating itself on the profitable business it is doing, not realizing that it is merely assisting a foreign competitor to hold together his customers until the war is over. The American firm is missing a golden opportunity to put its own man in the field, get in touch with the native market, and build up a permanent and profitable business.

There is a wealth of similar practical information in the bulletin, under the following headings: Export Policies, Representatives and Agencies, Finances and Credit, Quotations, Postal Services, Correspondence and Translations, Co operation with Consuls, Packing, Advertising, and General Trade Extension. Contributions are included from consuls, commercial attaches, traveling special agents, from special agents in charge of district offices of the Bureau of Foreign and Domestic Commerce, and from Dr. E. E. Pratt, Chief of the Bureau.

The title of the new bulletin is "Export Trade Suggestions," Miscellaneous Series No. 35, and it contains 141 pages. Copies may be purchased at the nominal price of 15 cents each from the Superintendent of Documents, Washington, D. C., or from the District Offices of the Bureau.

MANTEL AND TILE DEALERS ELECT OFFICERS AND ADOPT IMPORTANT TRADE MEASURES.

The Northern California Mantel and Tile Dealers' Association, at their regular meeting last Thursday, elected officers and adopted a new rule relating to the giving of estimates on tile jobs as follows:

No lump sum bid will be given to any contractor or architect while said job is being figured, where more than 1000 feet of tiling is used. After said job has been awarded, lump sum bids will then be given the successful contractor, the bids for which must be opened in the presence of the bidders.

Officers were elected and installed as follows:

Chas. Holloway Jr., President.
G. McElhinney, Vice President.
T. F. O'Connor, Secretary-Treasurer.
Ed. Hulse, Thos. F. Rigney and Carl Erickson, Trustees.

The election of Mr. Holloway as President of this organization is quite a tribute to the energy of Mr. Holloway and a recognition of his business ability. His company, the Holloway Expanded Metal Co., embarked in the tile line about a year ago and has been eminently successful. The Vice President, Mr. McElhinney, is another man who is similarly recognized as a leader.

The Government of Peru has granted a concession to Carlos du Bois for the irrigation of certain arid lands belonging to the State, located in the Province of Trujillo of the Department of La Libertad, between the River Santa and the River Chao, starting from Suchiman The terms of the concession, published in El Peruano for March 9, permit the use of water from the River Santa for the irrigation works, and also permit the free importation of machinery and other material needed for the installation. On completion of the irrigation project, the ownership of certain lands goes to the concessionary. Definite plans for the work must be completed within a year, in conformity with technical requirements of the official bureau of water and agriculture (Direccion de Aguas y Agricultura.)

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 5 story and base. Class C construction, $25,000. Architects, Wood & Simpson, 110 Sutter street, S. F. Owners, The Savings Union Bank and Trust Co. Location, west Larkin south of Post, covering an area of 40 by 50 feet. Will contain 20 apartments of two and three rooms. Interior finish pine and gum with some white enamel. Hardwood floors. Steam heat, automatic elevator and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Apartment house, 2 story and base, brick, $14,500. Architect, D. C. Coleman, Merchants' National Bank Bldg., S. F. Owner, William A. McKee, 3328 24th street. Location, north Geary east of Polk, covering an area of 25 by 120 feet. Will contain nine apartments of two and three rooms. Interior finish pine and redwood with some elm panels. Hardwood floors. Steam heat and a hot water supply. Bath rooms tile and composition. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $12,500. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, George C. Maile. Location, north Grove west of Scott. Will contain six modern four-room apartments. Interior finish pine and white enamel with some gum. Hardwood floors throughout except in baths and kitchens. Bath rooms tile. Gas steam radiators. Hot water supply. Wall beds. Marble and tile wainscot. Exterior covered with brick veneer and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment houses, 2, 3 story and base, brick. Cost not stated. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, J. M. Booth. Location, 10th and Oak streets. One building will contain 18 suites of two rooms and the other 6 suites of three room. Interiors will be finished in pine and hardwood veneer. Hardwood floors. Bath rooms tile. Steam heat, oil burning supply and hot water system. Wall beds. Marble and tile wainscot. Exteriors faced with pressed brick and cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 3 story and base, frame, $25,000. Architect, H. C. Baurman, Hearst Bldg., S. F. Owner, R. A. Janssen. Location, College avenue near Ocean View. Will contain 20 apartments of three and four rooms. Interior finish pine, gum and white enamel. Hardwood floors. Steam heat and hot water supply. Oil burning equipment. Wall beds. Bath rooms tile and composition. Marble and tile wainscot. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $55,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, United Home Builders. Location, Oak near 15th street. Will contain a total of 30 apartments of three, four and five rooms. Interior finish pine, hardwood and white enamel. Hardwood floors in the principal rooms. Steam heat, hot water supply and oil burning system. Wall beds. Bath rooms finished in tile. Marble and tile wainscot in the vestibule. Exterior faced with cement plaster and brick veneer. Plans complete and segregated figures being taken by both the architects and owners.

EUREKA, HUMBOLDT CO., CAL.—Apartment house, 3 story and base. Class C construction. Cost not stated. Architects, Konig & Christensen, Humboldt Bank Bldg., S. F. Owners, Daly Bros., Eureka. Location, Hillsdale and E streets. Will contain a total of 43 suites of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water supply. Bath room tile. Wall beds. Exterior faced with cement plaster. Plans complete and contract to be awarded at once.

SAN FRANCISCO—Apartment house, 2 story and base, frame, $3,500. Architect, none. Owner, Gustav M. Schoeppe, 1423 Palou avenue, S. F. Location, east Railroad avenue north of Revere. Will contain stores on the first floor and apartments above. Interior finish pine and redwood. Patent store fronts. Exterior faced with rustic and cement plaster. Plans complete and work to be done by Day Labor.

VALLEJO, SOLANO CO., CAL.—Apartment house and stores, 4 story and base. Class C construction, $40,000. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name withheld. Will cover an area of 50 by 130 feet and will contain seven stores on the ground floor and a total of 27 apartments of two and three rooms on the upper floors. Interior finish pine. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

BANKS
Contracts Awarded

STOCKTON, SAN JOAQUIN CO., CAL.—Bank and offices, 8 story and base. Class A construction. Cost not stated. Architect, George William Kelham, Sharon Bldg., S. F. Owners, Farmers' and Merchants' Bank. Contractor, P. J. Walker Co., Monadnock Bldg., S. F. Note: Contract taken on percentage basis and subfigures being taken on the various parts of the work.

PLYMOUTH, AMADOR CO., CAL.—Bank fixtures. Cost not stated. Architect, none. Owner, Amador County Bank. Contractors, Fink & Schindler Co., 226 13th street, S. F. Contract price not stated.

BATH HOUSES.

CALISTOGA, NAPA CO., CAL.—Bath house, 1 story, concrete and frame. Cost not stated. Architect, Frank S. Holland, New Call Bldg., S. F. Owner's name withheld. Location, Calistoga Mud Springs. Will contain rest rooms, plunge, sweat rooms and office. A separate building, also one story, will house the pumping plant. Interior finish pine, tile and hardwall cement. Special plumbing fixtures. Exterior faced with cement plaster. Metal tile roof. Plans complete and figures being taken.

BONDS

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—At the last meeting of the County Supervisors the following school bonds were ordered advertised for sale: Atascadero School, $15,000; Arroyo Grande Union High School, $12,000, and the San Miguel School, $2,500. Bids close June 6th.

VALLEJO, SOLANO CO., CAL.—An election will be held on May 24th to vote bonds of $80,000 for the purchase of sites and the erection of a new school building in the eastern section of this city.

FRESNO, FRESNO CO., CAL.—The bond election held in this city last week for several hundred thousand dollars to build sanitary and storm sewer system carried. Plans for the work have already been prepared by City Engineer Cronkite, and bids will be called on the sale of the bonds.

AUBURN, PLACER CO., CAL.—The proposition of voting bonds of $4,000 for a new school building in the Weimar School District carried. A new school will be erected from the proceeds of the sale.

ORLAND, GLENN CO., CAL.—The Orland Civic Center bonds, amounting to $7,000, have been sold by the City Trustees.

CHICO, BUTTE CO., CAL.—June 17th is the date set by the City Council to vote bonds of $60,000 for the erection of a new high school building. It was at first proposed to call for an issue of $100,000.

BAKERSFIELD, KERN CO., CAL.—Another $500,000 block of Kern County highway bonds are to be sold by the Board of Supervisors on June 9, the Clerk having been instructed to advertise for bids to be received on that date. This will be the fourth half million dollar block of highway bonds sold and will leave only $500,000 worth of bonds unsold.

SANTA ANA, ORANGE CO., CAL.—The election held to vote bonds for the erection of a number of bridges throughout the county was defeated last week

MONROVIA, LOS ANGELES CO., CAL.—The Board of Education is contemplating the calling of a special election shortly to vote on the question of issuing bonds in the sum of $30,000 for the erection of a new school building.

HEMET, RIVERSIDE CO., CAL.—The paving bonds, amounting to $10,000, have been sold. The proceeds of the sale of the bonds will be used in the paving of streets in Hemet.

SANTA MONICA, LOS ANGELES CO., CAL.—An election will be held May 26, for the purpose of voting on the purchase of four water plants, and completion of various plants, for which a total sum of $712,500 will be represented by an issue of bonds to that amount.

EL CENTRO, IMPERIAL CO., CAL.—A movement is under way for an election to vote $1,000,000 in bonds for a system of good roads covering the county and connecting with State highways leading to San Diego, Los Angeles and Yuma. Petitions have been presented to the Supervisors.

BRIDGES, DAMS AND HARBOR WORK

SAN FRANCISCO—Dry dock. Cost not stated. Engineer, Howard C. Holmes, 112 Market street, S. F. Owners, Union Iron Works. The San Francisco Bridge Co., Nevada Bank Bldg., has been awarded the contract for the construction of practically all work except the machinery for the new dry dock to be erected at Hunter's Point for the Union Iron Works. The contract price is not given, but it is stated that the dock will cost in the neighborhood of $2,000,000. The excavation to be made will be mostly in solid rock. A large amount of concrete work and steel will be required.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Bridge, steel and concrete. Cost not stated. Engineer, County Surveyor, Santa Cruz. At the last meeting of the County Supervisors plans and specifications for the new bridge over the Rodeo Gulch were accepted and bids will be opened on May 19th. Plans may be had from the County Clerk.

SEATTLE, WASH.—Bridge, steel and reinforced concrete, $55,000. Engineer, County Surveyor, Seattle. Owners, King County. Bids have been called by the King County Commissioners to be opened May 22nd for the construction of a steel bridge at Fall City. Center span will be 100 feet with two 95-foot spans and a fill approach.

MARYSVILLE, YUBA CO., CAL.—Bridge, steel and reinforced concrete. Cost not stated. Engineer, County Surveyors of Yuba and Nevada Counties. Owners, Yuba and Nevada Counties. County Surveyor L. B. Crook of Yuba County and County Surveyor Fred Miller of Nevada County have selected a site for the proposed Spencerville bridge and bids for the construction of the proposed structure will be called for shortly. Plans for the bridge have already been prepared and will be approved within the next few days.

Contracts Awarded

PETALUMA, SONOMA CO., CAL.—Harbor dredging. Cost as follows. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council the offer of the American Dredging Co., 21 California street, San Francisco, to dredge the river to the extent of 4,000 cubic yards, between F and G streets, was accepted. The price is 27.94c per cubic yard.

CHURCHES

PORTLAND, ORE.—Church, 2 story and base, brick and stone, $40,000. Architects, Smith & Griffiths, Gerlinger Bldg., Portland. Owners, St. Rose's Church. Location, Rose City Park Station. Will contain main auditorium, Sunday school rooms and social hall. Interior finish pine and ornamental plaster. Art glass windows. Steam heat, oil burning system and vacuum cleaning. Exterior faced with stone. Plans being prepared.

COURT HOUSES.

Contracts Awarded

WINTERS, YOLO CO., CAL.—City hall, 1 story and base, concrete and brick, $19,000. Architect, W. H. Weeks 75 Post street, S. F. Owners, City of Winters. Contractors, L. G. Bergren & Son, Hearst Bldg., S. F. Contract price, $10,000.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Packing plant, 3 story and base. Class C construction. Cost not stated. Architect, Hermann Barth, 12 Geary street, S. F. Owners, Frye & Co. Location, southeast Fremont and Pacific streets, covering a considerable ground area. Will contain work rooms, shipping rooms and offices. Interior finish in office pine. Special machinery and metal window sash and frames. Exterior faced with stock brick. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Chemical plant, 1 story, steel and concrete. Cost not stated. Engineer, V. N. Dalton, Foxcroft Bldg., S. F. Owners, Stauffer Chemical Co., 624 California street, S. F. Will cover an area of 120 by 105 feet. Concrete foundation and floor. Steel frame. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Warehouse, 1 story, corrugated iron, $2,500. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, Hall Scott Motor Car Co. Location, 735 snyder street. Cement floor. Exterior covered with corrugated iron. Plans complete and work to be done by Day Labor.

Contracts Awarded

CLOTHO, FRESNO CO., CAL.—Packing plant, 1 story, frame and corrugated iron, $2,700. Architect, George R. Shannon, 1360 Glenn street, Fresno. Owner, John Quinn. Contractors, Jasper & Wilber, Fresno. Contract price, $2,700.

FIRE HOUSES AND JAILS

SAN FRANCISCO — Fire house, 2 story and base. Class C construction, $35,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids were opened by the Board of Public works for the general construction, plumbing, electric work and lighting fixtures for Engine House No. 8. A complete list of these bids will be found under the heading of San Francisco in this issue.

SAN FRANCISCO—Detention Home hardware, $2,550. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Bennett Bros. presented the low figure for this work at $2,550 and will be awarded the contract. A complete list of the bids received will be found under the heading of San Francisco in this issue.

FLATS

SAN FRANCISCO—Flats and store, 2 story and base, frame, $15,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue. Location, southeast corner of Geary and 19th avenue, covering an area of 57½ by 67½ feet. Will contain stores on the first floor and two large flats on the upper floor. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Patent store fronts and marble bases. Hardwood in display windows. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,000. Architect, L. Traverso, 854 Union street, S. F. Owner, A. Briasco. Location, south Filbert west of Van Ness avenue, covering an area of 25 by 44 feet. Will contain two flats of five and six rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owners, Leigh & Shultz, 419 21st avenue, S. F. Location, north California west of 7th avenue, covering an area of 25 by 63 feet. Will contain two modern flats of five and six rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Composition floors. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2, 2 story and base, frame, $5,000 each. Architect, none. Owner, L. B. Ham, 274 25th avenue, S. F. Location, west 14th avenue north of Anza. Each building will contain two modern flats of five and six rooms. Interiors finished in pine, redwood and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile with composition floors. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $2,500. Architect, Erwin Reichel, 1227 Shafter avenue, S. F. Owner, Anna D. Altist, 1577 Shafter avenue, S. F. Location, north Valley west of Dolores, covering an area of 24 by 54 feet. Will contain two small flats. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GARAGES

SAN FRANCISCO—Garage, 1 story, brick, $2,000. Architect, L. Traverso, 854 Union street, S. F. Owner, G. Chiappelone. Location, east Laguna south of Lombard. Designed for a private garage. Cement floor. Exterior faced with stock brick. Plans complete and work to be done by Day Labor.

SACRAMENTO, CAL. — Garage, 1 story, interlocking tile, $3,500. Architect, A. Willoner, 813 J street, Sacramento. Owner's name withheld. Location, 35th street, Oak Park. Will contain wash room besides the storage space. Interior finish pine. Special gasoline storage tanks. Exterior faced with cement plaster. Plans being prepared.

GOVERNMENT WORK & SUPPLIES

Cordova, Alaska, Steel Towers.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing 2 300-foot steel towers at the U. S. naval radio station, Cordova, Alaska:

Item 1, work complete; 2, price per pound of steel in towers; 3, work complete in accordance with plans and specifications, except that structural and reinforcing steel may be taken from stock or warehouse; 4, price per pound for steel in towers, including anchorage and reinforcement, except that structural steel may be taken from stock or ware house; 5, for installing insulators, winches, and rope lighting protection, snatch blocks, I bolts and hooks for 2 towers; 6, price for foundations for towers.

Pittsburgh, Des Moines Steel Co., Pittsburgh, Pa., item 2, 11.65c; 5, $1,440.

W. N. Concanon, 525 Market street, San Francisco, Cal., item 1, $40,572.

Henry Monk, Pensacola, Fla., item 1, $54,220; 3, $52,250.

Northwestern Steel Co., Portland, Ore., item 3, $41,290; 4, 12.3c; 5, $2,853.

Nicholas Fleiness, 1310 1st avenue, Seattle, Wash., item 3, $31,350; 4, 10c; 5, $3,520; 6, $3,610.

The Hofius Steel & Equipment Co., Railroad and Atlantic avenues, Seattle, Wash., item 3, $31,925; 4, 10c; 5, $3,550; 6, $3,650.

Grant Fee, 2440 16th street, San Francisco, Cal., item 1, $35,500; 2, 9 3-20c; 3, $39,500; 4, 10¾c; 5, $2,050; 6, $3,327.

McCrae & Layaz, 1278 Sacramento street, San Francisco, Cal., item 1, $40,888; 2, 11.8c; 3, $42,888; 4, 12.5c; 5, $2,100; 6, $7,888.

Chicago Bridge and Iron Co., 37 W. Van Buren street, Chicago, Ill., item 3, $42,900.

Booker, Kiehl & Whipple, Seattle, Wash., item 3, $34,730; 4, 11.48c; 5, $1,994; 6, $5,000.

Roseburg, Ore., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for the construction complete, of the U. S. post office at Roseburg, Ore.:

Item 1, limestone; 2, sandstone.

Stebinger Bros., Portland, Ore., item 1, $84,045; 2, $83,745.

Harding F. Allen, Seattle, Wash., item, 1, $84,500; 2, $84,700.

D. E. Young & Co., Seattle, Wash., item 1, $90,169; 2, $89,699 and $92,240.

Campbell Building Co., Salt Lake City, Utah, item 1, $86,700; 2, $86,200.

Sound Construction and Engineering Co., Seattle, Wash., item 1, $84,228; 2, $83,300, $87,300, and $84,800.

King Lumber Co., Charlottesville, Va., item 1, $94,800; 2, $94,800.

Thomas W. Cissel, Wooster, Ohio, item 1, $88,900; 2, $87,000.

John Wallin, Tacoma, Wash., item 1, $86,183; 2, $85,160, $85,615, and $89,491.

Olsen & Johnson, Missoula, Mont., item 1, $84,695; 2, $84,445.

Welch Bros. & Hanneman, Oakland, Cal., item 1, $84,679; 2, $84,679.

Peterson & Winters, Portland, Ore., item 1, $91,897; 2, $91,897.

Trench Excavator.

Abstract of bids received at Denver, Colo., by the Reclamation Service, on advertisement No. 622, for a trench excavator:

F. C. Austin Drainage Excavator Co., Chicago, Ill., f. o. b., Winthrop Harbor, Ill., item 1, $5,345; alternate, item 1, $6,895; 2, $1; 3, (a) $405; 3 (b) $200; total, $7,501.

The Parsons Co., Newton, Iowa, f. o. b. Newton, Iowa, item 1, $5,500; 3 (a) $85; 4, $60; total $5,645.

Pawling & Harnischfeger, Milwaukee, Wis., f. o. b. Milwaukee, Wis., item 1, $5,500.

Sargent Tile Ditcher Co., Fort Dodge, Iowa, f. o. b. Klamath Falls, Ore., item 1, $7,600; 2, $100; 4, $200; total, $7,900.

The Buckeye Traction Ditcher Co., Findlay, Ohio, f. o. b. Findlay, Ohio, item 1, $7,000; 3 (a) $275; total, $7,275.

Honolulu, H. T., Runway.

The bid of H. S. Sands, $672 in amount, has been accepted for making repairs to runway in the U. S. public building at Honolulu, H. T.

Cement, San Diego, Cal.

The following awards have been made for furnishing cement, sand, and crushed rock under bids opened March 31 by the U. S. engineer, Los Angeles, Cal., delivery to be made at San Diego:

Joncas Hanson, San Diego, Cal., cement, $17,840.

Mission Sand and Rock Co., San Diego, Cal., sand and rock, $19,928.

BLUEPRINTS, giving details, etc., for employees' buildings and additions to several schools and new cottages at Navajo Indian Agency, Arizona, can be examined at U. S. Indian Warehouse, 608 Howard street, San Francisco, Cal. Bids covering same will be opened at Washington, D. C., May 29th, 1916.

BIDS will be received until May 20th at the Indian Supply Depot, 608 Howard street, San Francisco, for furnishing 2,600 pounds of cement, 1,700 pounds wood fiber plaster for use in Nevada. Also for plumbing materials, bath tubs, closets, basins, 40-gallon tank, etc., for shipment to Fort Hall, Idaho.

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HALLS AND SOCIETY BUILDINGS

STOCKTON, SAN JOAQUIN CO., CAL. —Armory, 1 story and base, brick and reinforced concrete, $21,990. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. McLeran & Peterson, Sharon Bldg., S. F., presented the low figure for this work at $21,990 and will probably be awarded the work. A complete list of the bids opened will be found under the heading of Sacramento and Northern California in this issue.

VISALIA, TULARE CO., CAL.—Auditorium lighting fixtures, $531.50. Architect none. Owners, City of Visalia. The Visalia Electric Works, Visalia, presented the low figure for furnishing lighting fixtures for the new municipal auditorium and will be awarded the contract.

Contracts Awarded.

CHICO, BUTTE CO., CAL.—Lodge hall alterations, $5,000. Architect, Chester A. Cole, 215 Waterland Bldg., Chico. Owners, Chico Masonic Temple Association. Contractor, J. M. Evans, Chico. Contract price, $5,000.

HOSPITALS

SAN FRANCISCO—Hospital wing, 4 story and base. Class A construction. Cost not stated. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. McSheehy Bros. presented the low figure for the general construction of the southeast wing of the San Francisco Hospital at $186,428. The next lowest bid was $206,108. A complete list of the bids will be found under the heading of San Francisco in this issue.

YOUNTVILLE, NAPA CO., CAL.—Hospital cottages, concrete and frame, $19,960. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Anderson & Ringrose, 320 Market street, S. F., presented the lowest bid for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

Contracts Awarded

NORWALK, LOS ANGELES CO., CAL. —Hospital boiler equipment, $20,310. Engineer, State Engineer, Sacramento. Owners, State of California. Contractors, Charles C. Moore & Co., Sheldon Bldg., S. F. Contract price, $20,310.

HOTELS

BERKELEY, ALAMEDA CO., CAL.—Hotel, 3 story and base, frame, $40,000. Architect, George W. Patton, 2126 Emerson street, Berkeley. Owner, Edward P. Moore. Contractor, J. H. Fluth, 1608 McGee avenue, Berkeley. Contract price, $40,000. Note: Contractor is now taking subfigures on the work.

IRRIGATION PROJECTS

MODESTO, STANISLAUS CO., CAL.—Irrigation dam, reinforced concrete. Cost not stated. Engineer, Chief Engineer Herrmann, Modesto. Owners, Mo-

desto Irrigation District. Advertisement for bids to be opened May 25th for completion of the contract on dam No. 1 of the Dallas reservoir, abandoned several weeks ago by the Peart Bros. of Oakdale, was authorized at a regular adjourned meeting of the directors of the Modesto Irrigation District. Plans for this work may be had from the chief engineer of the Modesto Irrigation District at Modesto.

ANDERSON, SHASTA CO., CAL.—Irrigation project, $480,000. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. Many bids received by the directors of the Anderson-Cottonwood Irrigation District have been rejected, while others have been held for further consideration. New bids will be called on that portion of the work for which bids were rejected. Bids that appear to be satisfactory are those covering the tunnel; the excavation of the main canal as far as Panorama Point, between Anderson and Cottonwood; the concrete siphons; the metal flumes; cement and bridges. Rejected bids in the main are the dam, Churn Creek siphons and some of the laterals of the excavation work. Further mention will be made of the work when new bids are called.

RESIDENCES

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $4,500 each. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name withheld. Location, Merritt Terrace. Each dwelling will contain seven rooms, bath and basement garage. Interiors finished in pine, gum and white enamel. Hardwood floors throughout except in the kitchens and bath rooms. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and segregated figures being taken.

SAN FRANCISCO—Residences, 4, 1½ story and base, frame, $2,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, Charles J. Koenig, 520 Church street, S. F. Location, east Paris north of Russia. Each house will contain six rooms, bath and sleeping porch. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $5,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, S. A. Born, 660 Market street. Location, Lincoln Manor. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, James Welsh, 549 11th avenue, S. F. Location, west 18th avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine, redwood and hardwood. White enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $2,750. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, south Mission west of Santa Maria. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, W. B. Kenny, 430 Arguello Boulevard, S. F. Location, east 19th avenue south of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine and white enamel. Some gum panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Fred K. Perry, 2123 Clement street, S. F. Location, west 16th avenue south of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, gum and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, C. H. Kinney, 5788 Vicente street, Oakland. Location, west El Centro north of Greenwood. Will contain seven rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, north San Pedro west The Alameda. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in bath and kitchen. Bath room tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to b done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, William H. Sims, 1926 64th avenue, Oakland. Location, east Fairfax north of Ygnacio. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,000. Architect, none. Owner, Charles H. Lough, 1846 13th avenue, Oakland. Location, southeast 38th avenue and Kansas. Will contain four rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,600. Architect, none. Owner, George H. Noble, 2220 Central avenue, Alamada. Location, 2522 San Jose avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, J. Coward, 6081 Claremont avenue, Oakland. Location, northwest corner of Elsie and Chabot Road. Will contain eight rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Conrad Roth, 2117 Pacific avenue, Alameda. Location, 221 Encinal avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 5, 1 story and base, frame, $2,500 each. Architect, none. Owner, John Bischoff, 6045 Harwood avenue, Oakland. Location, north 62nd east of Hillegass. Each dwelling will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 1 story and base, frame, $2,500 each. Architect, none. Owner, L. E. Allen, 2425 Orin Drive, Oakland. Location, east Orin Drive north of 24th. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, north 62nd east of Hillegass. Will contain six rooms, bath and sleeping porch. Inte-

rior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,250. Architect, none. Owner, L. E. Allen, 2425 Orin Drive, Oakland. Location, east Orin Drive north of 24th. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,650. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Location, Northbrae. Will contain five rooms, bath and sleeping porch. Interior finish hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepard.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, Leroy H. Fish. Location, Thousand Oaks Park. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepared.

OAKLAND, CAL. — Residences, 9, 1 story and base, frame, $2,000 each. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Each of the dwellings will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared.

OAKLAND, CAL. — Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, A. Hawkins, 4424 Pampas avenue, Oakland. Location, north Courtland avenue east of High. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,500. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Location, Nova Piedmont. Will contain seven rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in baths and kitchen. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepared.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $2,700. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, B. Kopf. Location, Waterside Terrace. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans being prepared and work to be done by Day Labor.

MT. DIABLO, CONTRA COSTA CO., CAL.—Residence, 1 and 2 story and base, frame, $25,000. Architect, G. A. Applegarth, Spreckels Bldg., S. F. Owner, R. N. Burgess. Designed for a country home and will contain twelve rooms, two baths and sleeping porches. Out buildings, stables and garage are also to be erected. Interior finish pine and hardwood with some white enamel. Hardwood floors. Furnace heat and hot water system. Bath rooms finished in tile. Open fire places and brick and stone mantels. Exterior covered with cement plaster. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, J. W. Grow, Richmond. Location, Castro between 23rd and 24th streets. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Residences, 9, 1 and 2 story and base, frame, $3,000 to $4,000. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Yosemite Terrace. These dwellings will contain from seven to eight rooms, bath and sleeping porch. Interiors will be finished in pine, redwood, gum and white enamel. Hardwood floors will be used in the principal rooms. Furnace heat and open fire places. Mantels tile and brick. Automatic water heaters. Bath rooms tile. Exteriors covered with rustic, shingles and cement plaster. Plans are being prepared.

BURLINGAME, SAN MATEO CO., CAL.—Residence, 1 story and base, frame, $4,500. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Ashley Farless. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, N. B. Willis, 3048 Madison street, Fresno. Location, 3445 Illinois avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story, attic and base, frame, $15,000. Architect, G. A. Applegarth, Spreckels Bldg., S. F. Owner, G. A. Applegarth. Location, Vallejo near Broderick. Will contain twelve rooms, three baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and central heating system. Bath rooms finished in tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residence, 2 story and base, frame, $6,500. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner's name withheld. Location, Union near Lyon. Will contain eight rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in kitchen and bath room. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO — Residence, 1½ story and base, frame, $4,000. Architect, E. Bertz, 2873 Union street, S. F. Owners, Pockman & Co., sold to B. B. Rich. Location, southwest 39th avenue and Geary. Will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Thomas Hamill, 5535 Geary St., S. F. Location, north Clement east of 30th avenue. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence alterations and additions, 2 story, frame. Cost not stated. Architect, Bernard Joseph, New Call Bldg., S. F. Owner, Marion Mayer. Location, 512 10th avenue. Work will consist of new interior trim, hardwood floors, plastering, electric work and plumbing. Considerable exterior work is also included in the contract. Plans are being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 28th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and shingles. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, J. H. Pickrell, 1218 97th avenue, Oakland. Location, southwest corner of Nevada and Walter avenues. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement

plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, Edward Sommarstrom, 202 East 12th street, Oakland. Location, Santa Clara avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, W. Higgins. Location, 94th avenue. Will contain five rooms and bath. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Merrill Newsom 1748 Broadway, Oakland. Owner, E. L. Higgins. Location, Thomas street. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors except in the bath and kitchen. Bath room tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 1½ story and base, frame, $2,000. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Location, east 29th avenue south of Lincoln Way. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $4,550. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. A. McLeod. Location, east Capelt south of Prospect. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SCHOOLS

HILLSBOROUGH, SAN MATEO CO., CAL.—School, 1 story, frame and plaster, $12,000. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Bids opened for this building show McLeran & Peterson, Sharon Bldg., S. F., low at $12,000. A contract will probably be awarded. A complete list of the bids received will be found under the heading of San Jose and the Santa Clara Valley in this issue.

RIVERSIDE, RIVERSIDE CO., CAL.—College experimental station, 1 story and base, concrete. Cost not stated. Architect, Lester H. Hibbard, Marsh-Strong Bldg., L. A. Owners, Regents of the University of California. Bids will be opened on May 20th for the general construction, heating and ventlating, plumbing, and electric work for the laboratory, residence and barns to be erected at the Citrus Experimental Station. Plans can be secured from the architect.

ALAMEDA, ALAMEDA CO., CAL.—School painting. Cost not stated. Architect, Henry H. Meyer, Kohl Bldg., S. F. Owners, City of Alameda. Bids will be received until May 23rd for the painting on the Washington School addition. Plans can be secured from the office of the architect.

RICHMOND, CONTRA COSTA CO., CAL.—School additions, 2, 2 story, Class A or Class C. Cost as follows. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Richmond. The architects have been commissioned to prepare plans for two additions to contain eight class rooms. If the construction is of the Class A type, $64,000 in bonds will be required, and if Class C construction is used but $20,000 will be needed. Further mention will be made of the work when the type of construction has been determined.

Contracts Awarded

SAN LEANDRO, ALAMEDA CO., CAL.—Schools, 2, 1 story and base, reinforced concrete and brick, $35,000 each. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Contractors, McLeran & Peterson, Sharon Bldg., S. F. Contract price, $77,880. A complete list of the bids received for this work will be found under the heading of Oakland and Alameda County in this issue.

PETALUMA, SONOMA CO., CAL.—Convent buildings, 2, 2 story, frame and plaster, $12,000 and $10,000. Architect, John J. Foley, 46 Kearny street, S. F. Owners, St. Vincent's Academy. Contractor, Fred Cullen, Petaluma. Contract price, parish hall, $10,000; convent, $12,000.

SEWERS, STREET WORK & WATER SYSTEMS

OAKLAND, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 18th for street improvements ordered under the following resolutions: That Laurel avenue, from the northeast line of School street to the southwest line of Hopkins street, be curbed with redwood, guttered with concrete gutters 3 feet wide, sidewalked with cement sidewalks 6 feet wide, and paved with oil macadam; also that Laurel avenue be graded from the northeast line of School street to the northeast line of Georgia street, and regraded from the northeast line of Georgia street to the southwest line of Hopkins street; also that seven wooden culverts be constructed in Laurel avenue and two corrugated iron and concrete culverts, each having two branches.

OAKDALE, STANISLAUS CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. Bids will be received until May 15th at 8 p. m. for work under the following resolution: That F street between the intersection of the west line of Bryan avenue with F street, along F street to the intersection of F street with the east boundary line, be graded and an 18-foot strip thereof along the center of street be paved with asphaltic concrete with Topeka top, said pavement to be 4 inches in thickness.

EUREKA, HUMBOLDT CO., CAL.—Sewer pipe. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids received at the last meeting of the Eureka City Council for furnishing the city with 1,500 feet of vitrified, salt-glazed, sewer pipe in 2½-foot lengths were referred to the street committee for report. Bids were received from N. Clark, Eureka Building and Supply Co., and John Shaw.

TACOMA, PIERCE CO., WASH.—Highway construction. Cost not stated. Engineer, County Surveyor, Tacoma. Owners, Pierce County. Bids have been called by the Pierce County Commissioners for the construction of eight miles of road in that county. The call provides for all classes of pavement, including bitulithic, concrete, bitucrete, brick, asphalt and wood block. The work includes the paving of the Mountain Road and two miles of the Pacific Highway at Nisqually Hill. Bids for the former will be opened on May 26th and on the latter May 27th. Plans may be had from the County Engineer at Tacoma, Wash.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 18th for street improvements ordered under the following resolutions: That the portion of 36th avenue that is bounded on the northeast by the southwest line of East 14th street, on the southeast by the southeast line of 36th avenue, on the southwest by the northeast line of 12th street, and on the northwest by a line parallel and distant 37 feet northwest from the southeast line of 36th avenue, be graded, curbed with concrete, guttered with a concrete gutter 3 feet wide, and paved with oil macadam; also that East 12th street from the southeast line of 36th avenue to a line parallel thereto and distant 50 feet northwest therefrom, be graded, curbed with concrete, paved with oil macadam, and culverted with two corrugated iron and concrete culverts, each having two branches; also that 36th avenue be graded, curbed with concrete, guttered with concrete gutters 3 feet wide, and paved with oil macadam, as follows: From the southwest line of East 12th street to a line parallel thereto and distant 155 feet southwest, parallel to and distant 205 feet southwest from the southwest line of East 12th street to the southweat line, productd, of block C of the Fruitvale Terminal Tract line, produced, of block E of said Fruitvale Terminal Tract to the northeast line, produced, of Post street; also that four corrugated iron and concrete culverts, each having two branches, be constructed in 36th avenue.

VALLEJO, SOLANO CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Six bids were received for constructing the sewer in Everett alley, as follows: W. J. Tobin, 755 Filbert street, Oakland, $732.50; Moran Construction Co., $998.75; D. O. Church, 68 Post street, San Francisco, $1,915.51; Thomas A. Clark, 68 Post street, San Francisco, $999.50; M. Murphy, 1321 Milvia street, Berkeley, $1,-

119.50; Pringle, Dunn & Co., 338 Pine street, San Francisco, $875.75. The bids submitted for the Solano avenue sewer were as follows: W. I. Tobin, $2,-169.40; Pringle, Dunn & Co., $3,227.59; M. Murphy, $2,727.34; Thomas A. Clark, $3,451.55; Moran Improvement Co., $2,-130.94; D. O. Church & Co., $4,993.53. Contracts will be awarded shortly.

BAKERSFIELD, KERN CO., CAL.—Highway construction, $74,000. Engineer, County Surveyor, Bakersfield. Owners, Kern County. On recommendation of the County Highway Commission the bids submitted on the contract for paving division 3, section 1, Wasco-Lost Hills road, were rejected by the board as excessively high. The lowest bid was that of W. A. Dontanville, Salinas, $81,204.10, and the highest that of Mesmer & Rice, Los Angeles, $120,-571.65. New bids will probably be called for within the next few days.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Bids will be opened on May 15th for street work under the following resolutions: That C street, from the south line of California avenue to the north line of Chester Lane; C street from the south line of Chester Lane to the north line of Palm street; A street from the south line of California avenue to the north line of Chestnut Lane; Dracena street, from the west line of Oleander avenue to the east line of A street, together with all the intersections of streets and alleys. That Oleander avenue, from the north line of California avenue to the north line of 11th street, and that 13th street, from the west line of Oleander avenue to the east line of C street, and that 14th street from the west line of F street to the west line of C street; and that C street, from the north line of California avenue to the south line of 14th street, together with all the intersections of streets and alleys. That M street from the south line of California avenue to the north line of 8th street, together with all the intersections of streets and alleys. That I street, from the south line of 7th to the north line of 4th street, together with all the intersections of streets and alleys.

SALINAS, MONTEREY CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors the plans and specifications for road work between Del Monte and Seaside were approved and bids were called for, to be opened on May 19th at 2 p. m. Plans may be had from the County Clerk.

SAN RAFAEL, MARIN CO., CAL.—Sidewalks, etc. Cost not stated. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council a resolution was passed calling for bids for concrete walks to be laid along the following streets in San Rafael: West side of Grand avenue, between 4th and Watt avenue; 1st street, between Shaver and Hayes streets; on the west side of Shaver street, between 1st and Minnie streets; on the south side of Bay View street, between C and D streets; north side of Frances street, between D and E streets; east side of E street, between 1st and 2nd streets, and on the east side of Grand avenue, between Highland and Acacia avenues.

OAKLAND, CAL.—Street work. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The following action was taken by the City Council at its last meeting: Award contract to Ransome-Crummey Co., 1st National Bank Bldg., Oakland, for the improvement of Sunset avenue, from Lynde street to Bona street. Calling for bids for the extension of the Yerba Buena avenue sewer from the Southern Pacific right-of-away westerly, and directing the City Clerk to advertise for said bids. Directing the City Engineer to prepare proceedings for the improvement of 15th avenue, between East 12th and East 10th streets. Directing the City Engineer to prepare proceedings for the improvement of 51st avenue, from the south line of East 14th street to the north line of East 10th street. Directing the City Engineer to prepare proceedings to improve Weld street southeast of 73rd avenue.

ALAMEDA, ALAMEDA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Alameda. Owners, City of Alameda. All bids received by the City Council for the paving of Central avenue have been rejected. Bids for this work were received from the following contractors: Clark & Henery Co. of Stockton; Johnson-Shea Co. of Oakland; Federal Construction Co. of San Francisco; Ransome-Crummey Co. of Oakland; the Oakland Paving Co., and Blanchard-Brown Co. of San Francisco. New bids have been called for May 23rd. Plans may be had from the City Clerk.

OAKLAND, CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until May 18th for constructing an extension of the Yerba Buena avenue sewer from the S. P. right-of-way westerly.

VALLEJO, SOLANO CO., CAL.—Street improvements, $66,192. Engineer, City Engineer, Kilkenny, Vallejo. Owners, City of Vallejo. City Engineer Kilkenny has completed plans and specifications for the paving of the northwestern district of this city. The City Council will consider the plans at its next meeting. The northwestern district embraces Florida, Santa Clara, Branciforte and Butte streets, these streets being in what is known as the "hill district," where a great deal of grading will be necessary. Further mention will be made of this work.

PETALUMA, SOLANO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Bids will be received until June 5th at 7.30 p. m. for work under the following resolution: That Broadway be sewered with a 6-inch ironstone pipe sewer from the manhole in the center of Bassett street to the manhole in the center of English street.

Contracts Awarded

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost as follows. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the contract for improving C street, between 3rd and 2nd streets, was awarded to Hutchinson & Co., 13th and Franklin streets, Oakland, for $2.81 a foot. The bid for improving Linden Lane was also accepted from the same company for $1.75 per foot.

VALLEJO, SOLANO CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Contractors, Moran Construction Co., Vallejo, sewers in Solano avenue and other streets in the southeastern district. Contract price not stated. W. J. Tobin, 735 Filbert street, Oakland, sewers in Everett Alley. Contract price not stated.

WOODLAND, YOLO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Woodland. Owners, City of Woodland. Contractors, Clark & Henery Construction Co., Ochsner Bldg., Sacramento. Contract price not stated.

RIPON, SAN JOAQUIN CO., CAL.—Street improvement, $5,841.04. Engineer, Town Engineer, Ripon. Owners, Town of Ripon. Contractor, S. W. McCleary, Lodi. Contract price, $5,841.04.

SEATTLE, WASH.—Paving, $84,400. Engineer, County Surveyor, Seattle. Owners, King County. Contractors, Cascade Construction Co., Pacific Block, Seattle. Contract price, $84,400.

SAN FRANCISCO — Street improvements. Cost not stated. Engineer, City Engineer, City Hall. Owners, City and County of San Francisco: For improving De Haro street, between 20th and 22nd, by construction granite curbs, artificial stone sidewalks, paving with asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, with a 14-foot central strip of vitrified brick on a concrete foundation, awarded to Eaton & Smith, 407 11th street. For improving the crossing of De Haro street and 20th street, by constructing granite curbs and artificial stone sidewalks on the angular corners thereof; paving with an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic concrete wearing surface, also brick catchbasins with cast iron frames, gratings and traps and 10-inch vitrified, salt-glazed, ironstone pipe culverts, awarded to Eaton & Smith, 407 11th street. For improving 18th avenue, between Judah and Kirkham streets, by grading, concrete curbs, a 14-foot central strip of basalt block pavement on a 6-inch concrete foundation with gravel filler; paving the remainder of the roadway with an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; also constructing an 8-inch vitrified, salt-glazed, ironstone pipe sewer with 36 Y branches and side sewers and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps, awarded to A. E. Buckman, 352 Geary street. For improving Noe street, from Valley to 29th street, by the construction of concrete curbs, a vitrified brick paving on the roadway thereof, awarded to D. O. Church Co., 68 Post street. For improving 7th street, between Howard and Folsom streets, by the construction of artificial stone sidewalks, awarded to Philip O'Donnell, 4110½ 25th street. For improving the north side of 22nd street, between Hampshire street and Potrero avenue, by the construction of artificial stone sidewalks, awarded to Thomas C. Walsh. For improving Shotwell street, between 22nd and 23rd streets, by the construction of artificial stone side-

walks, awarded to Philip O'Donnell, 1110½ 25th street.

SEATTLE, WASH.—Street pavement, brick, $22,691. Engineer, City Engineer, Seattle. Owners, City of Seattle. Contractor, Frank McLellan, Globe Block, Seattle. Contract price, $222,691.

STORES AND OFFICES

SAN FRANCISCO—Stores, 1 story and base. Class C construction. Cost not stated. Architect, Alfred I. Coffey, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, Sutter and Larkin streets. Will cover a considerable ground area. Interiors finished in pine with hardwood in the display windows. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Store decoration. Cost not stated. Architect, Alfred Henry Jacobs, 110 Sutter street, S. F. Owners, Foster & Orear. Location, 137 Grant avenue. A new store, adjoining the present building, will be remodeled and fitted up for a high class candy store. Included in the contract will be a large amount of ornamental plaster work, electric work, hardwood trim and painting and decorating. A contract for the rough carpentry has been awarded to R. W. Coburn and for the electric work to the Decker Electric Co. Bids are being taken on the balance of the work.

SAN MATEO, SAN MATEO CO., CAL.—Store, 1 story and base, reinforced concrete, $12,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name withheld. Will cover an area of 50 by 150 feet, and will contain six stores. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

BURLINGAME, SAN MATEO CO., CAL.—Stores, 1 story and base, reinforced concrete. Cost not stated. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name not given. Contractor, William Leadley, San Mateo. Contract taken on the percentage basis.

FRESNO, FRESNO CO., CAL.—Store alteration, brick, $4,200. Architect, none. Owner, L. W. Moultrie. Contractors, Dow & Camon, Fresno. Contract price, $4,200.

SEALED PROPOSALS

PROPOSALS FOR TUNNELS, ETC.

TUNNELS AND CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service at Fort Laramie, Wyo., until **2 o'clock p. m. May 22, 1916**, for the construction of two tunnels and concrete lining of canal approaches to same on the Fort Laramie Canal, North Platte project, Nebraska-Wyoming, involving approximately 4,850 lineal feet of tunnel excavation and 12,000 cubic yards of concrete in place. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo, or Fort Laramie, Wyo. A. P. DAVIS, chief engineer.

PROPOSALS FOR EARTHWORK.

EARTHWORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Fort Laramie, Wyo., until **2 o'clock p. m. May 25, 1916**, for earthwork on about 8½ miles of main canal, Fort Laramie unit, North Platte project, Nebraska-Wyoming, involving the excavation of approximately 793,000 cubic yards of material. This work is situated near the Bridgeport-Guernsey line of the Chicago, Burlington and Quincy Railway in the vicinity of Fort Laramie, Wyo. For particulars address the United States Reclamatinn Service, Washington, D. C.; Denver, Colo., or Fort Laramie, Wyo. A. P. DAVIS, chief engineer.

PROPOSALS FOR CRANES.

CRANES—Sealed proposals indorsed "Proposals for Shipbuilding Cranes" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. May 29, 1916**, and then and there publicly opened, for furnishing two shipbuilding cranes at the navy yard, Mare Island, Cal. Plans and specifications may be obtained on application to the bureau or to the commandant of the Mare Island Navy Yard, Vallejo, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR SUPPLIES.

MISCELLANEOUS SUPPLIES—Office of the Depot Quartermaster, Fort Mason, San Francisco, Cal.—Sealed proposals will be received here until **10 a. m. May 20, 1916**, for furnishing the following supplies: 1,000 combination oil and candle lanterns, 100 gallons pure sperm oil, 2 quires composite stencil paper, 10 gallons deoderized benzine, 10,000 time cards, 144 sledge hammer handles, 144 scoop shovel handles, 300 pounds log line, 24 quires stencil paper, 400 sets refils for loose leaf memorandum books, 200 whipstocks, 144 round cotton wicks, 48 dog baskets, 105 halter chains, 100 pounds black saddler's wax, 24 cabin door hooks, 36 keyless sockets, 12 egg slicers, 2,200 glasses or tumblers, 150 glass water bottles, 500 china coffee cups, 100 china sugar bowls, 900 china dishes, 100 preserve dishes, 12 ice picks, 1,500 china plates, 30,000 pounds white lead, 2,000 pounds dry red lead and 250 gallons white enamel. For further information address W. H. HART, lieutenant colonel, quartermaster corps, U. S. army, depot quartermaster.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, St. Ignatius, Mont., until **2 o'clock p. m. May 25, 1916**, for the construction of canals and structures on the Flathead project, Montana, involving about 220,000 cubic yards of excavation, 870 cubic yards of reinforced concrete, 2,250 square yards of paving, 7,550 square feet of canal lining, manufacturing and laying 6,230 linear feet of concrete pipe, laying 210 cubic yards of dry rubble wall, erecting 4,000 feet, B. M., of lumber and placing 110,000 pounds of structural steel and reinforcing steel. The work under schedules 1 and 2 is located from three to ten miles southwest of Polson, Mont., and under schedules 3 and 4 is located from six to eight miles west of Ronan, Mont. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or St. Ignatius, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1038 — Office General Purchasing Officer, Panama Canal, Washington, D. C. Sealed proposals will be received here until **10 a. m. May 20, 1916**, under circular 1038 for furnishing ship augers, ship-auger bits, twist drills, reamers, steel sleeves, steel drill sockets, machinists' taps, lever fulcrums, engine truck springs, adzes, anvils, chopping axes, hacksaw blades, ratchet braces, chisels, garbage cans, marine clocks, brass allcocks, liquid compasses, breast drills, hacksaw frames, brass grommets, claw hammers, sledge hammers, claw hatchets, half hatchets, panel saws, crosscut saws, steel squares, stocks and dies, pipe tongs, inner tubes for Ford motor trucks, bench vises, wrenches, Stilson wrenches, Coston rescue lights, machetes, wire netting, poultry netting, files, bolts, nuts, rivets, lag screws, washers, rubber-insulated braided cable, buoy chain, mess-kit cups, china flats, ice-cream freezers, Berlin kettles, butcher knives, butter knives, coffee pots, stock pots, tea pots, soup spoons, table spoons, teaspoons, Chinese strainers, crash toweling, rubber wire-wound steam hose, ash oars, Coston distress outfits, planes, side-cutting pliers, life preservers, copper rivets and burrs, compass saws, crosscut hand saws, hand rip saws, steel angles, steel channels, butchers's cleavers, building brick, grip nuts, reducing valves, rattan baskets, butchers' blocks, glass vinegar bottles, food choppers, water coolers, asbestos furnace cement and cotton waiters' towels. For further information address EARL I. BROWN, major, corps of engineers, U. S. A., general purchasing officer.

PROPOSALS FOR DREDGE.

DREDGE—Sealed proposals indorsed "Proposals for Dredge" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. June 3, 1916**, and then and there publicly opened, for a gravity swing, one-ton, bucket dredge, for the navy yard, Mare Island, Cal. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard named. F. R. HARRIS, chief of bureau.

PROPOSALS FOR STEEL FURNITURE.

STEEL FURNITURE—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be received at this office until **3 p. m. May 16, 1916**, and then opened for supplying steel furniture for the new U. S. subtreasury building at San Francisco, Cal., all to be made in strict accordance with department drawings and specifications. The department reserves the right to reject any and all bids and to waive defects. Telegraphic bids or modifications of bids will not be considered. Each proposal must be accompanied by a certified check in the sum of 10 per cent of the aggregate amount thereof, drawn to the order of the Treasurer of the United States as a guarantee of good faith. JAMES A. WETMORE, acting supervising architect.

NOTICE TO CONTRACTORS.

SEALED bids will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, up to **12 o'clock, noon, Thursday, June 1, 1916**, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Addition to Poultry Building," State Fair Grounds, Sacramento, California, in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Ten ($10.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Addition to

Poultry Building,' State Fair Grounds, Sacramento, California."

(Signed) W. F. McCLURE,
State Engineer.

PROPOSALS FOR SLUICE GATES.

SLUICE GATES—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Washington, D. C., until **2 o'clock p. m. May 15, 1916,** for furnishing steel and cast iron sluice and regulator gates, gate frames, lifting devices and accessories and miscellaneous fabricated steel for Milk River project, Montana. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR WOOD STAVE PIPE.

WOOD STAVE PIPE—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Grand Junction, Colo., until **2 o'clock p. m. May 23, 1916,** for the construction of approximately 3,950 linear feet of 60-inch diameter continuous wood stave pipe for the Grand Valley project, Colorado. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Grand Junction, Colo. A. P. DAVIS, chief engineer.

PROPOSALS FOR OIL AND LUMBER.

FUEL OIL AND LUMBER—Sealed proposals will be opened by the light house inspector, San Francisco, Cal., at **2 o'clock p. m. May 18, 1916,** for furnishing bituminous coal, lumber, gasoline and distillate. Information on application to above office.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1036 — Office General Purchasing Officer, Panama Canal, Washington, D. C.—Sealed proposals will be received here until **May 12, 1916,** under circular 1036 for furnishing copper mesh, screenning, tacks, diggers, water closets, water-closet bowls, lavatories, siphons, cocks, valves, pipe, bolts, and pipe fittings. For further information address EARL I. BROWN, major, corps engineers, U. S. A., general purchasing officer.

NOTICE TO CONTRACTORS.

Blue prints, giving details, etc., for Employees' Buildings and additions to several schools and new cottages at Navajo Indian Agency, Arizona, can be examined at U. S. Indian Warehouse, 608 Howard St., San Francisco, Cal.

Bids covering same will be opened at Washington, D. C., May 29, 1916. (*)

NOTICE TO CONTRACTORS.

NOTICE is hereby given that sealed bids will be received by the Board of Supervisors of San Mateo County, California, up to **Monday, the 5th day of June, 1916, at ten o'clock** for the building complete of a County Jail building in Redwood City, San Mateo County, California, all in accordance with the plans and specifications as prepared by Will H. Toepke, Architect, and approved by the Board of Supervisors on April 17th, 1916.

Said building to be erected upon the easterly line of Webster street north of Broadway.

Bids to be received as follows:

No. 1. Estimate on the building of the Jail Building complete and known as a General Contract, and including such work as excavating, reinforced concrete walls and foundations, cement floors and yards, structural steel work, sheet metal work, mill work, carpenter work, lathing, plastering, glazing, metal staircases, terra cotta, cementing, sandstone and granite work, damp-proofing, plumbing, sewering, gas fitting, electric wiring, painting, steam heating, oil burning equipment and storage tank, and any and all other work as shown on plans and described in specifications for the general construction of the Jail Building.

(Note) All jail equipment, cell work, plate work, metal window guards and doors, locking devices, etc., and any and all other work in connection with the jail work, (except as specified in general specification) is not included in this estimate Number 1.

No. 2. Estimate on labor and material necessary to furnish and install complete all cell work, locking devices, plate work, metal window guards and doors, stair cases, metal frames, gratings, bunks, etc., all as shown in and described by plans and specifications marked Jail Specifications.

Bidders will be required to submit with their proposal a certified check or certificate of deposit on some responsible Bank or Trust Company in the sum of ten (10%) per cent of their bid. Said check to be made payable to the County Treasurer of the County of San Mateo, and will be held as security that the bidder will enter into a written contract with the Board of Supervisors of the County of San Mateo if awarded the contract within ten (10) days from date of award. In the event of a breach of the terms under which this check is held, the said check or certificate of deposit will be cashed and the proceeds thereof placed to the credit of the building fund of said County of San Mateo.

The successful bidder will further be required to give a bond from a satisfactory Surety Company in the sum of fifty (50%) per cent of his contract price, conditional for the faithful performance of his contract within the time limited, and to further insure the payments of all claims for labor and material furnished on the work.

The successful bidder will also be required to protect the County against liability arising under the Workmen's Compensation Act and against any and every contingency under which the county might be held liable during the progress of the work connected with the construction of said Jail Building.

The contract will provide for the retention of twenty-five (25%) per cent of the contract price for thirty-five (35) days after the completion of the work, and the filing of the notice of completion thereof. Bidders will take notice that there is now available for the purpose of constructing said Jail Building the sum of $12,857.00; that sixty (60%) per cent of the remainder of the amount necessary for the construction of said Jail Building will be available in cash on or about January 1, 1917, and that the balance will be available in cash about June 1, 1917. The contract price will be made payable in installments as the work progresses and as the funds are actually available.

Sealed estimates should be filed with the Clerk of the Board of Supervisors.

The said Board of Supervisors of said County hereby reserves the right to reject any and all bids.

Plans and specifications can be seen and secured at the County Clerk's Office in Redwood City, or at the office of the Architect, W. H. Toepke, No. 46 Kearny street, Room 508, San Francisco, California.

All bidders estimating on work will be required to deposit the sum of twenty-five ($25.00) Dollars in check or cash on securing the plans and specifications. This amount to be returned to the Contractor when plans and specifications are returned in good condition.

By order of the Board of Supervisors.

JOS. H. NASH,
Clerk.

PROPOSALS FOR CONCRETE WEIR.

ALTERNATE SEALED BIDS or proposals for furnishing of materials and constructing a Reinforced Concrete Weir, Water Cushion, Highway Bridge, Steel Railway Bridge, Movable Gates, and all other appurtenances, on the west bank of the Sacramento River at Bryte's Bend in Yolo County, California, for the City of Sacramento, Sacramento County, California, and endorsed, "Proposals for Furnishing Materials and Constructing the Sacramento By-Pass Weir," will be received at the office of the City Clerk, City Hall, Sacramento, California, between the hours of **10:00 and 11:00 A. M., Tuesday, May 23, 1916,** and will be publicly opened and read in the Council Chamber, City Hall, Sacramento, on Tuesday, May 23, 1916, after 11.00 A. M.

All bids shall be made upon the blank forms of proposal contained in a pamphlet with the contract, specification and drawings to be obtained at the office of the City Clerk, City Hall, Sacramento, California.

Each bidder must accompany his proposal by a certified check amounting to ten (10%) per cent of his bid. A liability bond will be required of the successful bidder amounting to fifty (50%) per cent and a contract guarantee bond in accordance with the following schedule: Ordinance No. 24 Third Series, $50,000 and under, a bond for fifty (50%) per cent of the contract price. Ordinance No. 186, Third Series, $50,000 to $100,000, a bond for twenty-five (25%) per cent of the contract price. Ordinance No. 186, Third Series, $100,000 to $250,000, a bond for fifteen (15%) per cent of the contract price. Ordinance No. 186, Third Series, over $250,000 a bond for ten (10%) per cent of the contract price.

The City Commission reserves the right to reject any items of any or all proposals or to accept any items of any proposal, if they deem it to the interest of the City of Sacramento so to do.

A deposit of two dollars and fifty cents ($2.50) will be made for each copy of the pamphlet containing the complete contracting documents.

(Signed) M. J. DESMOND,
City Clerk.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by the Board of Trustees of the Newcastle School District at Newcastle, Cal., at the residence of Mrs. Hazel S. Schnabel up to and including the hour of **12 o'clock, noon, Saturday, May 13th, 1916,** said bids then and there to be opened and read for furnishing all plant, materials and labor and doing all the work required for the complete construction and erection of a One Story Grammar School at Newcastle, Cal., in accordance with the plans and specifications therefor, copies of which may be obtained on application to Mrs. Hazel S. Schnabel, Newcastle, California.

All bids must be submitted on forms prepared for this work.

Cash or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid. A deposit of $5.00 will be required on plans and specifications to be returned immediately on return of documents in good condition on or before May 13, 1916.

The Board reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to Mrs. Hazel S. Schnabel, Newcastle, Cal., and plainly marked on the envelope, Proposal for Grammar School, Newcastle, Cal.

(Signed) W. E. LININGER,
F. H. HOWELL,
HAZEL S. SCHNABEL.

PROPOSALS FOR BUILDING.

BUILDING, ETC.—Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction, complete, of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the acting supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR BUILDING.

BUILDING — Treasury Department, Office of the Supervising Architect, Washington, D. C.—Sealed proposals will be opened in this office at **3 p. m. May 18, 1916,** for the construction of the United States post office at Durango, Colo. Drawings and specifications may be obtained from the custodian of the site at Durango, Colo., or at this office, in the discretion of the supervising architect. JAMES A. WETMORE, acting supervising architect.

PROPOSALS FOR BUILDING.

BUILDING—Fort Huachuca, Ariz.—Sealed proposals will be received here **until 1 p. m. May 15, 1916,** for furnishing materials and labor and constructing, complete, two double captains' quarters, four stable, guard and shop buildings, administration building, quartermaster corps barracks, and laundry. For information address constructing quartermaster.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal. — SEALED PROPOSALS, in triplicate, for constructing four field officers' and eight double sets officers' quarters at Presidio of San Francisco, Cal., will be received here **until 11:00 A. M., May 18, 1916,** and then opened. Further information on application. (*)

NOTICE TO CONTRACTRS.

SEALED PROPOSALS will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., **until May 20, 1916,** for constructing one concrete and two wooden buildings, and sewer and water system at the naval radio station, Cordova, Alaska. Plans and specifications may be obtained on application to the Bureau of Yards and Docks, Washington, or to the commandant, navy yard, Mare Island, Cal.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 8, 1916,—Sealed proposals will be opened in this office at **3 p. m. May 19, 1916,** for the construction complete of the United States post office at Wenatchee, Wash. Drawings and specifications may be obtained from the custodian of site at Wenatchee, Wash., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

AMERICAN LUMBER IN SOUTH AMERICA.

Argentina and Uruguay, although about 7,000 miles distant from the United States, constitute virtually an addition to our domestic wood-consuming field, so similar are market conditions, as described in a report prepared by the Bureau of Foreign and Domestic Commerce on "Lumber Markets of the East Coast of South America," which has just been issued. The author, Special Agent Roger E. Simmons, states that for more than 10 years 86 per cent of all lumber going into commerce in the two countries has come from the forests of North America, and nearly 96 per cent of the imports, exclusive of those from other South American countries, is credited to the United States and Canada. These figures might seem to indicate that the markets do not warrant investigation, but the opposite is true, according to the report. There is not only a possibility of further extending the markets for American lumber, but there is a necessity of calling attention to conditions prejudicial to the interests of American lumber and to certain competitive forces operating to lessen demand and affect future consumption.

Yellow pine is the principal export from the United States, and every importer interviewed in Argentina and Uruguay emphasized the fact that claims over measurement discrepancies were the greatest factor promoting dissatisfaction and discouraging the importation of this kind of lumber. The yellow-pine industry should take up the matter through its associations, the report declares, and see to it that the faults of the present system are removed or that some better method of making and guaranteeing measurements is adopted.

In Brazil the lumber situation is rather complicated. The virgin forests are unmeasured and contain untold varieties of tall trees of fairly large diameter. Yet Brazil is importing 60 million feet of pine lumber against a domestic production of 45 million feet. One-third of the domestic pine lumber production is exported. As in Argentina and Uruguay, yellow pine from our Southern States is the principal lumber imported, but Scotch fir from Sweden has supplanted the North American spruce, which not many years ago found a market in Brazil primarily as a substitute for European pine and fir. On the whole conditions are not thought to be prejudicial to the sale of American lumber, but they should be carefully studied and watched if the United States is to increase its share in Brazil's lumber trade.

"Lumber Markets of the East Coast of South America," Special Agents Series No. 112, has 121 pages and 45 illustrations. The report is sold at the nominal price of 25 cents by the district offices of the Bureau of Foreign and Domestic Commerce and by the Superintendent of Documents, Washington, D. C.

NATIONAL FOREST FURNISHES CASCARA BARK.

WASHINGTON, D. C. — Thirty-six thousand pounds of cascara bark were cut on the Siuslaw National Forest in Oregon during the latter half of last year, according to the Government's foresters. A steady demand for this bark for medicinal purposes, both in the United States and in Europe, is reported to exist. Before the war most of the exported product went to England and Germany.

The cascara bark industry began, it is asserted, in California about 1865, and for many years California led in the production of bark, exporting as much as 05,000 pounds in a single year. Now western Oregon and to a lesses degree western Washington are the chief sources of supply. The forest experts say that the destructive methods usually practiced in obtaining the bark have resulted in almost exterminating the cascara tree on privately owned land, leaving the National Forests as the last available source of supply.

The tree from which cascara bark is obtained is variously known as cascara, chittim, and bearberry. It is said that bears are very fond of the black, berry-like fruit which the tree produces and sometimes scratch the bark badly in climbing the trees to secure it. The bear-scratched trees are so difficult to peel that they are frequently left by the bark gathers, thus providing a few seed trees to help perpetuate the species.

Most of th cascara bark is peeled by settlers and small ranchers in the regions where it grows. The peeling season opens in April and closes when the bark begins to tighten in August. Bark obtained on the National Forests is cut under methods that provide for a future supply. Stumps six inches high are left with the bark undisturbed. These sprout rapidly and produce new trees. The bark is taken off the tree in as long strips as possible, spread on canvas or other material to keep it off the ground, and dried in the sun. In some localities it is no unusual sight to see the ranchers' fences and smaller buildings covered with the dry bark.

It is said that peeling and selling cascara bark has furnished many a poor homesteader with the grub stake necessary to keep him going while he was getting land cleared and ready for cultivation. Fifteen years ago the bark was still plentiful and worth ten to twenty cents a pound, which meant a good profit for the bark gatherer. For the last seven years the price has been from 3½ to 6 cents per pound at Portland, so the ranchers have lost much of their interest in bark peeling, and only engage in it when nothing better is in sight.

FOREST NOTES.

It is estimated that automobiles carried to the Grand Canyon National Monument last year 20,000 persons, while the number of persons to reach the Canyon by railroad was 92,000, or five times as many as in 1914.

New Mexico official reports show that 360,325 cattle and 1,219,762 sheep were shipped out of that State in 1915. Most of this stock was grazed on public lands, especially the National Forests. On the Forest ranges the forage crop is as much an object of care as the timber crop, and is increasing as a result of scientific methods.

Approximately 85 per cent of the losses of cattle on the National Forest ranges due to poisonous plants is caused by tall larkspur. Death camas, lupine, laurel, sneeze weed, and rubber weed are responsible for sheep losses from such cause, while loco weed is the principal poisonous plant affecting horses. Last year the loss from these couses amounted to about $300,000.

That wild burros in the Grand Canyon of the Colorado are increasing rapidly is the report from a ranger on the Tusayan National Forest, who says the little animals in their search for forage are finding their way to the top in such numbers as to constitute a nuisance. Already there are thousands of the animals in the Grand Canyon from Supai to the mouth of the Little Colorado, according to the Forest ranger.

SAWED LUMBER FOR PILING.

The use of sawed lumber instead of bare poles for piling is one of the latest devices for the prevention of levee breaking along the Mississippi river, and has proved so successful despite the tremendous strain put upon it that the use of wooden interlocking piling is spreading rapidly throughout the country. The use of this piling, undressed two-inch timber, has proved an efficient substitute for the old metal sheet piling, with the added advantage that the wooden interlocking piling does not buckle and bend when driven, as does the metal work. The first use of the wooden piling was in the levee work at New Orleans, and proved so successful there that it was immediately put to use on other levee and harbor work in the South. Since then it has been developed for caisson work, sewerage and water excavations, and many other lines of work where metal was formerly used exclusively.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

DRY DOCK—Cost not stated. San Francisco. Engineer, Howard C. Holmes, 112 Market street, S. F. Owners, Union Iron Works. The San Francisco Bridge Co., Nevada Bank Bldg., has been awarded the contract for the construction of practically all work except the machinery for the new dry dock to be erected at Hunter's Point for the Union Iron Works. The contract price is not given, but it is stated that the dock will cost in the neighborhood of $2,000,000. The excavation to be made will be mostly in solid rock. A large amount of concrete work and steel will be required.

RESIDENCES—2, 2 story and base, frame, $4,500 each. San Francisco. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name withheld. Location, Merritt Terrace. Each dwelling will contain seven rooms, bath and basement garage. Interiors finished in pine, gum and white enamel. Hardwood floors throughout except in the kitchens and bath rooms. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and segregated figures being taken.

RESIDENCES—4, 1½ story and base, frame, $2,000. San Francisco. Architects, Koenig & Christensen, Humboldt Bank Bldg., S. F. Owner, Charles J. Koenig, 520 Church street, S. F. Location, east Paris north Russia. Each house will contain six rooms, bath and sleeping porch. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, S. A. Born, 660 Market street. Location, Lincoln Manor. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, James Welsh, 549 18th avenue, S. F. Location, west 18th avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine, redwood and hardwood. White enamel in the bed rooms. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,750. San Francisco. Architect, none. Owners, Oscar Heyman & Bro., 742 Market street, S. F. Location, south Mission west of Santa Maria. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, W. B. Kenny, 430 Arguello Boulevard, S. F. Location, east 19th avenue south of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine and white enamel. Some gum panels. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Fred K. Perry, 2123 Clement street, S. F. Location, west 16th avenue south of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, gum and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—5 story and base. Class C construction, $25,000. San Francisco. Architects, Wood & Simpson, 110 Sutter street, S. F. Owners, The Savings Union Bank and Trust Co. Location, west Larkin south of Post, covering an area of 40 by 50 feet. Will contain twenty apartments of two and three rooms. Interior finish pine and gum with some white enamel. Hardwood floors. Steam heat, automatic elevator and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, brick, $14,500. San Francisco. Architect, D. C. Coleman, Merchants National Bank Bldg., S. F. Owner, William A. McKee, 3328 24th street. Location, north Geary east of Polk, covering an area of 25 by 120 feet. Will contain nine apartments of two and three rooms. Interior finish pine and redwood with some elm panels. Hardwood floors. Steam heat and a hot water supply. Bath rooms tile and composition. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $12,500. San Francisco. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, George C. Maile. Location, north Grove west of Scott. Will contain six modern four-room apartments. Interior finish pine and white enamel with some gum. Hardwood floors throughout except in baths and kitchens. Bath rooms tile. Gas steam radiators. Hot water supply. Wall beds. Marble and tile wainscot. Exterior covered with brick veneer and cement plaster. Plans complete and figures being taken.

FLATS AND STORES—2 story and base, frame, $15,000. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 365 14th avenue. Location, southeast corner of Geary and 19th avenue, covering an area of 57½ by 67½ feet. Will contain stores on the first floor and two large flats on the upper floor. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Patent store fronts and marble bases. Hardwood in display windows. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $3,000. San Francisco. Architect, L. Traverso, 854 Union street, S. F. Owner, A. Briasco. Location, south Filbert west of Van Ness avenue, covering an area of 25 by 44 feet. Will contain two flats of five and six rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Owners, Leigh & Schultz, 419 21st avenue, S. F. Location, north California west of 7th avenue, covering an area of 25 by 63 feet. Will contain two modern flats of five and six rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Composition floors. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owner, L. B. Ham, 274 25th avenue, S. F. Location, west 14th avenue north of Anza. Each building will contain two modern flats of five and six rooms. Interiors finished in pine, redwood and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile with composition floors. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base, frame, $3,500. San Francisco. Architect, none. Owner, Gustav M. Schoeppe, 1423 Palou avenue, S. F. Location, east Railroad avenue north of Revere. Will contain stores on the first floor and apartments above. Interior finish pine and redwood. Patent store fronts. Exterior faced with rustic and

cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Thomas Hamill, 5535 Geary street S. F. Location, north Clement east of 30th avenue. Will contain six rooms bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE ALTERATIONS AND ADDITIONS—2 story, frame. Cost not stated. San Francisco. Architect, Bernard Joseph, New Call Bldg., S. F. Owner, Marion Mayer. Location, 512 10th avenue. Work will consist of new interior trim, hardwood floors, plastering, electric work and plumbing. Considerable exterior work is also included in the contract. Plans are being prepared.

RESIDENCE—2 story, attic and base, frame, $15,000. San Francisco. Architect, G. A. Applegarth, Spreckels Bldg., S. F. Owner, G. A. Applegarth. Location, Vallejo near Broderick. Will contain twelve rooms, three baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and central heating system. Bath rooms finished in tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $6,500. San Francisco. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owner's name withheld. Location, Union near Lyon. Will contain eight rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in kitchen and bath room. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

RESIDENCE—1½ story and base, frame, $4,000. San Francisco. Architect, E. Bertz, 2833 Union street, S. F. Owners, Pockman & Co., sold to B. B. Rich. Location, southwest 39th avenue and Geary. Will contain seven rooms, bath, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PACKING PLANT—3 story and base. Class C construction. Cost not stated. San Francisco. Architect, Herman Barth, 12 Geary street, S. F. Owner, Frye & Co. Location, southeast Fremont and Pacific streets, covering a considerable area. Will contain work rooms, shipping rooms and offices. Interior finish in office pine. Special machinery and metal window sash and frames. Exterior faced with stock brick. Plans complete and figures being taken.

FLATS—2 story and base, frame, $2,500. San Francisco. Architect, Erwin Reichel, 1227 Shafter avenue, S. F. Owner, Anna D. Altist, 1577 Shafter avenue, S. F. Location, north Valley west of Dolores, covering an area of 24 by 54 feet. Will contain two small flats. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile or brick mantels. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

HOSPITAL WING—4 story and base. Class A construction. Cost not stated. San Francisco. Architect, Hermann Barth, 12 Geary street, S. F. Owners, City and County of San Francisco. McSheehy Bros. presented the low figure for the general construction of the southwest wing of the San Francisco Hospital at $186,428. The next lowest bid was $206,108. A complete list of the bids will be found under the heading of San Francisco in this issue.

RESIDENCE—1½ story and base, frame, $2,000. San Francisco. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Location, east 29th avenue south of Lincoln Way. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STORES—1 story and base. Class C construction. Cost not stated. San Francisco. Architect, Alfred I. Coffey, Humboldt Bank Bldg., S. F. Owner's name withheld. Location, Sutter and Larkin streets. Will cover a considerable ground area. Interiors finished in pine with hardwood in the display windows. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

STORE DECORATION—Cost not stated. San Francisco. Architect, Alfred Henry Jacobs, 110 Sutter street, S. F. Owners, Foster & Orear. Location, 137 Grant avenue. A new store, adjoining the present building, will be remodeled and fitted up for a high class candy store. Included in the contract will be a large amount of ornamental plaster work, electric work, hardwood trim and painting and decorating. A contract for the rough carpentry has been awarded to R. W. Coburn and for the electric work to the Decker Electric Co. Bids are being taken on the balance of the work.

FIRE HOUSE—2 story and base. Class C construction, $35,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids were opened by the Board of Public Works for the general construction, plumbing, electric work and lighting fixtures for Engine House No. 8. A complete list of these bids will be found under the heading of San Francisco in this issue.

DETENTION HOME HARDWARE—$2,550. San Francisco. Architect, Louis C. Mulgardt, Chronicle Bldg., S. F. Owners, City and County of San Francisco. Bennett Bros. presented the low figure for this work at $2,550 and will be awarded the contract. A complete list of the bids received will be found under the heading of San Francisco in this issue.

GARAGE—1 story, brick, $2,000. San Francisco. Architect, L. Traverso, 854 Union street, S. F. Owner, G. Chiappelone. Location, east Laguna south of Lombard. Designed for a private garage. Cement floor. Exterior faced with stock brick. Plans complete and work to be done by Day Labor.

Contracts Awarded

STREET IMPROVEMENTS—Cost not stated. San Francisco. Engineer, City Engineer, City Hall. Owners, City and County of San Francisco. For improving De Haro street, between 20th and 22nd, by constructing granite curbs, artificial stone sidewalks, paving with asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, with a 14-foot central strip of vitrified brick on a concrete foundation, awarded to Eaton & Smith, 407 11th St. For improving the crossing of De Haro street and 20th street, by constructing granite curbs and artificial stone sidewalks on the angular corners thereof; paving with an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; also brick catchbasins with cast iron frames, gratings and traps and 10-inch vitrified, salt-glazed, ironstone pipe culverts, awarded to Eaton & Smith, 407 11th street. For improving 18th avenue, between Judah and Kirkham streets, by grading, concrete curbs, a 14-foot central strip of basalt block pavement on a 6-inch concrete foundation with gravel filler; paving the remainder of the roadway with an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; also constructing an 8-inch vitrified, salt-glazed, ironstone pipe sewer with 36 Y branches and side sewers and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps, awarded to A. E. Buckman, 352 Geary street. For improving Noe street, from Valley to 29th street, by the construction of concrete curbs, a vitrified brick paving on the roadway thereof, awarded to D. O. Church Co., 68 Post street. For improving 7th street, between Howard and Folsom streets, by the construction of artificial stone sidewalks, awarded to Philip O'Donnell, 4110½ 25th street. For improving the north side of 22nd street, between Hampshire street and Potrero avenue, by the construction of artificial stone sidewalks, awarded to Thomas C. Walsh. For improving Shotwell street, between 22nd and 23rd streets, by the construction of artificial stone sidewalks, awarded to Philip O'Donnell, 4110½ 25th street.

City Bids Opened.

Bids For Construction Work At San Francisco Hospital and For Engine House No. 8 Opened.

A large number of figures were opened by the San Francisco Board of Public Works at the regular Wednesday afternoon meeting for construction of the southeast wing of the San Francisco Hospital; finish hardware for the Detention Home; general construction of Engine House No. 8; plumbing, electric work and light fixtures on the same building and for steel stairs at 18th and Indiana streets.

At the same meeting the Board of Public Works directed the City Engineer to prepare plans for the extension of the Municipal Railroad on Church street from 16th street to Market and on Market street from Church street to Van Ness avenue. Plans prepared

by the City Engineer for a sewer to cost $22,000 to be constructed in Oakdale street from San Bruno avenue to Selby street were approved:

Following is a complete list of the bids as opened:

General Construction Southeast Wing, San Francisco Hospital.

J. S. Hannah	$242,773
McSheehy Bros.	186,428
Newsom & Henning	206,108
C. L. Wold	215,820
Sound Constr. & Eng. Co.	218,355
O. Monson	214,837
P. F. Reilly	223,906
Anderson & Ringrose	209,890

Finish Hardware, Detention Home.

Bennett Bros.	$2,550
Joost Bros.	2,850
A. W. Pike	2,585

General Construction, Engine House No. 8.

Masow & Morrison	$24,192
C. L. Wold	24,989
Howard Williams	25,379
Newsom & Hennings	22,977
A. Kohn	25,248
John Spargo	24,000
E. S. Mulford	23,820
J. H. O'Brien	24,895
F. L. Hansen	25,555
D. Graham	25,900
O. C. Holt	22,670

Plumbing, Engine House No. 8

F. W. Snook	$5,394
Burnham Plumbing Co.	5,539
H. Lawson	5,560
J. E. O'Mara	5,767
Turner Co.	5,845
Alex. Coleman	4,998
Kiernan & O'Brien	5,712
Wittman, Lyman Co.	5,660
A. Lettich	5,471
Scott Co.	5,160
J. M. Lettich	5,490
R. Dalziel Jr.	5,737
W. F. Wilson	5,647

Electric Work, Engine House No. 8.

Central Electric Co.	$ 994
Turner Co.	1,178

Light Fixtures, Engine House No. 8

Roberts Mfg. Co.	$ 897
Ickelheimer Bros.	1,155
Thos. Day Co.	944

Steel Stair Way, 18th and Indiana Sts.

S. F. Iron Works (void)	$895
Ralston Iron Works (void)	498
Monarch Iron Works	684
California Art Metal Works	790
Sims Grey & Sauter	643
Golden Gate Iron Works	669

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 18th for street improvements ordered under the following resolutions: That Laurel avenue, from the northeast line of School street to the southwest line of Hopkins street, be curbed with redwood, guttered with concrete gutters 3 feet wide, sidewalked with cement sidewalks 6 feet wide, and paved with oil macadam; also that Laurel avenue be graded from the northeast line of School street to the northeast line of Georgia street and regraded from the northeast line of Georgia street to the southwest line of Hopkins street; also that seven wooden culverts be constructed in Laurel avenue and two corrugated iron and concrete culverts, each having two branches.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on May 18th for street improvements ordered under the following resolutions: That the portion of 36th avenue that is bounded on the northeast by the southwest line of East 14th street, on the southeast by the southeast line of 36th avenue, on the southwest by the northeast line of East 12th street, and on the northwest by a line parallel to and distant 37 feet northwest from the southeast line of 36th avenue, be graded, curbed with concrete, guttered with concrete gutter 3 feet wide, and paved with oil macadam; also that East 12th street, from the southeast line of 36th avenue to a line parallel thereto and distant 50 feet northwest therefrom, be graded, curbed with concrete, paved with oil macadam, and culverted with two corrugated iron and concrete culverts, each having two branches; also that 36th avenue be graded, curbed with concrete, guttered with concrete gutters 3 feet wide, and paved with oil macadam, as follows: From the southwest line of East 12th street to a line parallel thereto and distant 155 feet southwest, parallel to and distant 205 feet southwest from the southwest line of East 12th street to the southwest line produced of block C of the Fruitvale Terminal Tract line, produced, of block E of said Fruitvale Terminal Tract to the northeast line, produced, of Post street; also that four corrugated iron and concrete culverts each having two branches, be constructed in 36th avenue.

RESIDENCE — 1 story and base, frame, $2,500, Oakland, Cal. Architect, none. Owner, C. H. Kinney, 5788 Vicente street, Oakland. Location, west El Centro north of Greenwood. Will contain seven rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, north San Pedro west The Alameda. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in batth and kitchen. Bath room tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, William H. Sims, 1926 64th avenue, Oakland. Location, east Fairfax north of Ygnacio. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,000. Oakland, Cal. Architect, none. Owner, Charles H. Lough, 1846 13th avenue, Oakland. Location, southeast 28th avenue and Kansas. Will contain four rooms, bath and sleeping porch. Interior finish pine and redwood. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Bath room tile. Exterior cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, George H. Noble, 2220 Central avenue, Alameda. Location, 2522 San Jose avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, none. Owner, J. Coward, 6081 Claremont avenue, Oakland. Location, northwest corner of Elsie and Chabol Road. Will contain eight rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, Conrad Roth, 2117 Pacific avenue, Alameda. Location, 2261 Encinal avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCES—5, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, none. Owner, John Bischoff, 6045 Harwood avenue, Oakland. Location, north 62nd east of Hillegass. Each dwelling will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, none. Owner, L. E. Allen, 2425 Orin Drive, Oakland. Location, east Orin Drive north of 24th. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, John A. Bischoff, 6045 Harwood avenue, Oakland. Location, north 62nd east of Hillegass. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,250. Oakland, Cal. Architect, none. Owner, L. E. Allen, 2425 Orin Drive, Oakland. Location, east Orin Drive north of 24th. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,650. Berkeley, Alameda Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Location, Northbrae. Will contain five rooms, bath and sleeping porch. Interior finish hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepared.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, Roy H. Fish. Location, Thousand Oaks Park. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepared.

RESIDENCES—9, 1 story and base, frame, $2,000 each. Oakland, Cal. Architects, Universal Drafting Bureau, 1844 5th avenue. Oakland. Owner's name withheld. Each of the dwellings will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans being prepared.

RESIDENCES—2, 2 story and base, frame, $3,000 each. Oakland, Cal. Architect, none. Owner, A. Hawkins, 4424 Pampas avenue, Oakland. Location, north Courtland avenue east of High. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,500. Piedmont, Alameda Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Location, Nova Piedmont. Will contain seven rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in baths and kitchen. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans are being prepared.

RESIDENCE—1½ story and base, frame, $2,700. Alameda, Alameda Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, B. Kopf. Location, Waterside Terrace. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster and rustic. Plans being prepared and work to be done by Day Labor.

APARTMENT HOUSES—2, 3 story and base, brick. Cost not stated. Oakland, Cal. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, J. M. Booth. Location, 10th and Oak streets. One building will contain eighteen suites of two rooms and the other six suites of three rooms. Interior will be finished in pine and hardwood veneer. Hardwood floors. Bath rooms tile. Steam heat, oil burning supply and hot water system. Wall beds. Marble and tile wainscot. Exteriors faced with pressed brick and cement plaster. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $25,000. Berkeley, Alameda Co., Cal. Architect, H. C. Baurman, Hearst Bldg., S. F. Owner, R. A. Janssen. Location, College avenue near Ocean View. Will contain twenty apartments of three and four rooms. Interior finish pine, gum and white enamel. Hardwood floors. Steam heat and hot water supply. Oil burning equipment. Wall beds. Bath rooms tile and composition. Marble and tile wainscot. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $55,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, United Home Builders. Location, Oak near 15th street. Will contain a total of thirty apartments of three, four and five rooms. Interior finish pine, hardwood and white enamel. Hardwood floors in the principal rooms. Steam heat, hot water supply and oil burning system. Wall beds. Bath rooms finished in tile. Marble and tile wainscot in the vestibule. Exterior faced with cement plaster and brick veneer. Plans complete and segregated figures being taken by both the architects and owners.

STREET WORK—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The following action was taken by the City Council at its last meeting: Award contract to Ransome-Crummey Co., 1st National Bank Bldg., Oakland, for the improvement of Sunset avenue, from Lynde street to Bona street. Calling for bids for the extension of the Yerba Buena avenue sewer from the Southern Pacific Railroad right-of-way westerly, and directing the City Clerk to advertise for said bids. Directing the City Engineer to prepare proceedings for the improvement of 15th avenue, between East 12th and East 14th streets. Directing the City Engineer to prepare proceedings for the improvement of 51st avenue from the south line of East 14th street to the north line of East 10th street. Directing the City Engineer to prepare proceedings to improve Weld street southeast of 73rd avenue.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, E. H. Strang, 3741 Elston avenue, Oakland. Location, west 23rd avenue north of East 28th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster and shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, J. H. Pickrell, 1218 97th avenue, Oakland. Location, southwest corner of Nevada and Walter avenues. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, Edward Sommarstrom, 202 East 12th street, Oakland. Location, Santa Clara avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room composition floor. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, W. Higgins. Location, 94th avenue. Will contain five rooms and bath. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, E. L. Higgins. Location, Thomas street. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors except in the bath and kitchen. Bath room tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

CHEMICAL PLANT—1 story, steel and concrete. Cost not stated. Berkeley, Alameda Co., Cal. Engineer, V. N. Dalton, Foxcroft Bldg., S. F. Owners, Stauffer Chemical and Oil Co., 624 California street, S. F. Will cover an area of 120 by 105 feet. Concrete foundation and floor. Steel frame. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $4,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, W. A. McLeod. Location, east Capell south of Prospect. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

WAREHOUSE—1 story, corrugated iron, $2,500. Berkeley, Alameda Co., Cal. Architect, Edward T. Foulkes, Crocker Bldg., S. F. Owners, Hall Scott

Motor Car Co. Location, 735 Snyder street. Cement floor. Exterior covered with corrugated iron. Plans complete and work to be done by Day Labor.

SCHOOL PAINTING—Cost not stated. Alameda, Alameda Co., Cal. Architect, Henry H. Meyer, Kohl Bldg., S. F. Owners, City of Alameda. Bids will be received until May 23rd for the painting on the Washington School addition. Plans can be secured from the office of the architect.

STREET PAVING—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. All bids received by the City Council for the paving of Central avenue have been rejected. Bids for this work were received from the following contractors: Clark & Henery Co. of Stockton; Johnson-Shea Co. of Oakland; Federal Construction Co. of San Francisco; Ransome-Crummey Co. of Oakland; the Oakland Paving Co., and Blanchard-Brown Co. of San Francisco. New bids have been called up to May 23rd. Plans may be had from the City Clerk.

SEWER CONSTRUCTION—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until May 18th for constructing an extension of the Yerba Buena avenue sewer from the S. P. right-of-way westerly.

Contracts Awarded.

HOTEL—3 story and base, frame, $40,000. Berkeley, Alameda Co., Cal. Architect, George W. Patton, 226 Emerson street, Berkeley. Owner, Edward P. Moore. Contractor, J. H. Fluth, 1608 McGee avenue, Berkeley. Contract price, $40,000. Note: Contractor is now taking subfigures on the work.

SCHOOLS—2, 1 story and base, reinforced concrete and brick, $35,000 each. San Leandro, Alameda Co., Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, San Leandro School District. Contractors, McLeran & Peterson, Sharon Bldg., S. F. Contract price, $77,880. A complete list of the bids received for this work will be found under the heading of Oakland and Alameda County in this issue.

Receive Figures For San Leandro School.

Only Four Sets of Figures Received For Constructing Estabrook and Broadmoor Schools.

Only four sets of figures were received by the Board of Education of San Leandro for the construction of the two new school buildings a be known as the Estabrook and Broadmoor Schools. These two buildings will each be one-story in height and of reinforced concrete construction. Architect John J. Donovan, Dalziel Bldg., Oakland, prepared the plans.

The lowest bid received was presented by McLeran & Peterson, Sharon Bldg San Francisco, at $77,880 with to deductions and one addition. All bids were taken under advisement. Following is a complete list of the bids received:

San Leandro Schools.

R. W. Littlefield, $89,000; deduct, $1,650 for pine flooring; $400 for hardware and $530 for heating.

Carnahan & Mulford, $75,879; deduct, $350 for floors; $100 for hardware, and add $900 for slate blackboards.

Larsen & Sampson, $79,000; deduct $350 for floors; $400 for hardware and add $896 for slate blackboards.

McLeran & Peterson, $77,800; deduct

SAN JOSE AND THE SANTA CLARA VALLEY

BRIDGE—Steel and concrete. Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, County Surveyor, Santa Cruz. At the last meeting of the County Supervisors plans and specifications for the new bridge over the Rodeo Gulch were accepted and bids will be opened on May 19th. Plans may be had from the County Clerk.

RESIDENCE — 1 story and base, frame, $4,500. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Ashley Farless. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

HIGHWAY CONSTRUCTION — Cost not stated. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. At the last meeting of the County Supervisors the plans and specifications for road work between Del Monte and Seaside were approved and bids were called for, to be opened on May 9th at 2 p. m. Plans may be had from the County Clerk.

SIDEWALKS, ETC.—Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council a resolution was passed calling form bids for concrete walks to be laid along the following streets in San Rafael: West side of Grand avenue, between 4th and Wat: avenue; 1st street, between Shaver and Hayes streets; on the west side of Shaver street, between 1st and Minnie streets; on the south side of Bay View street, between C and D streets; north side of Frances street, between D and E streets; east side of E street, between 1st and 2nd streets, and on the east side of Grand avenue, between Higbland and Acacia avenues.

SCHOOL—1 story, frame and plaster, $13,000. Hillsborough, San Mateo Co., Cal. Architect, Louis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Bids opened for this building show McLeran & Peterson, Sharon Bldg., S. F., low at $13,000. A contract will probably be awarded. A complete list of the bids received will be found under the heading of San Jose and the Santa Clara Valley in this issue.

STORE—1 story and base, reinforced concrete, $12,000. San Mateo, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name withheld. Will cover an area of 50 by 150 feet and will contain six modern stores. Interior finish pine and hardwood. Patent store fronts and marble bases. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded

STORES—1 story and base, reinforced concrete. Cost not stated. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner's name not given. Contractor, William Leadley, San Mateo. Contract taken on the percentage basis.

Receive Figures For Hillsborough School.

Contract For One Story Frame and Plaster Building Will Probably be Awarded to Low Man.

McLeran & Peterson, Sharon Bldg., San Francisco, presented the lowest bid at $13,000 for the construction of the new one-story frame and plaster school building to be erected in Hillsborough, and will probably be awarded the contract. Plans for the building were prepared by Architect Lewis P. Hobart, Crocker Bldg., San Francisco. Following is a complete list of the bids received:

Hillsborough School.

McLeran & Peterson	$13,000
Coleman & Duncan	13,340
Chris Larsen & Son	13,344
Johnston Co.	14,645
Val Franz & Son	14,650
W. A. Goericke	14,770
Ruegg Bros.	14,950
Harvey A. Klyce	14,975
W. & R. H. Pearce Co.	15,221
W. D. Henderson	15,322
Alfred Kohn	15,375
R. Glaze	15,398
Jas. Furlong	15,500
Thos. A. Cavanagh	15,550
F. L. Hansen	15,555
Masow & Morrison	17,534

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SEWER CONSTRUCTION — Cost as follows. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Six bids were received for constructing the sewer in Everett alley, as follows: W. J. Tobin, 735 Filbert street, Oakland, $732.50; Moran Construction Co. $998.75; D. O. Church, 68 Post street, S. F., $1,915.51; Thomas A. Clark, 68 Post street, S. F., $999.50; M. Murphy, 1321 Milvia, Berkeley, $1,119.50; Pringle, Dunn & Co., 338 Pine street, S. F., $875.75. The bids submitted for the Solano avenue sewer were as follows: W. J. Tobin, $2,169.40; Pringle, Dunn & Co., $3,227.59; M. Murphy, $2,727.34; Thomas A. Clark, $3,451.55; Moran Improvement Co., $2,130.94, D. O. Church & Co., $4,993.53. Contracts will be awarded shortly.

SEWER CONSTRUCTION — Cost as follows. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The following bids were received for sewer construction in District D-2: Edward O'Malley, 180 Jessie street, S. F., $8,559.75; W. J. Tobin, 735 Filbert street, Oakland, $6,975.61; S. S. Abrams, Ross, $6,674.75. Engineer's estimate was $8,039.40. An award will probably be made at the next meeting.

SAN RAFAEL, MARIN CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. The following bids were received for sewer construction in District D-2: Edward O'Malley, 180 Jessie street, S. F., $8,559.75; W. J. Tobin, 735 Filbert street,

akland, $6,975.64; S. S. Ahrams, Ross, $3,674. 75. Engineer's estimate was $8,079.40. An award will probably be ade at the next meeting.

RESIDENCE—1 and 2 story and base, rame, $25,000. Mt. Diablo, Contra osta Co., Cal. Architect, G. A. Applearth, Spreckels Bldg., S. F. Owner, . N. Burgess. Designed for a country ome and will contain twelve rooms, wo baths and sleeping porches. Out uildings, stables and garage are also o be erected. Interior finish pine and ot water system. Bath rooms finished n tile. Open fire places and brick and tone mantels. Exterior covered with ement plaster. Plans being prepared.

RESIDENCE — 1 story and base, rame, $1,600. Richmond, Contra Costa o., Cal. Architect, none. Owner, J. W. Grow, Richmond. Location, Castro, between 23rd and 24th streets. Will contain five rooms and bath. Interior finish pine and redwood with some white namel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans omplete and work to be done by Day abor.

APARTMENT HOUSE AND STORES —4 story and base. Class C construction, $40,000. Vallejo, Solano Co., Cal. Architect, Bernard J. Joseph, New Call Bldg., S. F. Owner's name withheld. Will cover an area of 50 by 130 feet and will contain seven stores on the ground floor and a total of 27 apartments of two and three rooms on the upper floors. Interior finish pine. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms composition floors. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

SCHOOL ADDITIONS—2, 2 story. Class A or Class C. Cost as follows. Richmond, Contra Costa Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Richmond. The architects have been commissioned to prepare plans for two additions to contain eight class rooms. If the construction is of Class A type $64,000 in bonds will be required, and if Class C construction is used but $20,000 will be needed. Further mention will be made of the work when the type of construction has been determined.

STREET IMPROVEMENTS—$66,192. Vallejo, Solano Co., Cal. Engineer, City Engineer Kilkenny, Vallejo. Owners, City of Vallejo. City Engineer Kilkenny has completed plans and specifications for the paving of the northwestern district of this city. The City Council will consider the plans at its next meeting. The northwestern district embraces Florida, Santa Clara, Francigorte and Butte streets, these streets being in what is known as the "hill district," where a great deal of grading will be necessary. Further mention will be made of this work.

SEWER CONSTRUCTION—Cost not stated. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Bids will be received until June 5th at 7.30 p. m. for work under the following resolution: That Broadway be sewered with a 6-inch ironstone pipe sewer from the manhole in the center of Bassett street to the manhole in the center of English street.

SEWER CONSTRUCTION—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. Contractors, Moran Construction Co., Vallejo, sewers in Solano avenue and other streets in the southeastern district. Contract price not stated. W. J. Tobin, 735 Filbert street, Oakland, sewers in Everett Alley. Contract price not stated.

Contracts Awarded

HARBOR DREDGING—Cost as follows. Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council the offer of the American Dredging Co., 21 California street, San Francisco, to dredge the river to the extent of 4,000 cubic yards, between F and G streets, was accepted. The price is 27.94 per cubic yard.

STREET IMPROVEMENT—Cost as follows. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. At the last meeting of the City Council the contract for improving C street, between 3rd and 2nd streets, was awarded to Hutchinson & Co., 13th and Franklin streets, Oakland, for $2.81 a foot. The bid for improving Linden Lane was also accepted from the same company for $1.75 per foot.

CONVENT BUILDINGS—2, 2 story frame and plaster, $12,000 and $10,000. Petaluma, Sonoma Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owners, St. Vincent's Academy. Contractor, Fred Cullen, Petaluma. Contract price, parish hall, $10,000; convent, $12,000.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CONSTRUCTION — Cost as follows. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. The Kern County Supervisors received the following bids for the paving of division 3, section 1, Wasco-Lost Hills highway, and referred to the County Highway Commission for recommendation: Marin Rock Co., San Anselmo, $84,821.30; Rogers Bros., Los Angeles, $95,902.24; Lynn S. Atkinson, Los Angeles, $89,-262.63; Bent Bros., Los Angeles, $96,-013.59; Mesmer & Rice, Los Angeles, $120,571.65; W. A. Dontanville, Salinas, $81,204.10; McLean Construction Co., San Francisco, $96,924.60. A contract will be awarded shortly.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost as follows. Engineer, County Surveyor, Bakersfield. Owners, Kern County. The Kern County Supervisors received the following bids for the paving of division 3, section 1, Wasco-Lost Hills highway and referred them to the County Highway Commission for recommendation: Marin Rock Co., San Anselmo, $84,821.30; Rogers Bros., Los Angeles, $95,902.24; Lynn S. Atkinson, Los Angeles, $89,262.63; Bent Bros., Los Angeles, $96,013.59; Mesmer & Rice, Los Angeles, $120,571.65; W. A. Dontanville, Salinas, $81,204.10; McLean Construction Co., San Francisco, $96,924.60. A contract will be awarded shortly.

RESIDENCE — 1 story and base, frame, $1,600. Fresno, Fresno Co., Cal. Architect, none. Owner, N. B. Willis, 3048 Madison street, Fresno. Location, 3445 Illinois avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

IRRIGATION DAM—Reinforced concrete. Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer Herrmann, Modesto. Owners, Modesto Irrigation District. Advertisement for bids to be opened May 25th for completion of the contract on dam No. 1 of the Dallas reservoir, abandoned several weeks ago by the Peart Bros. of Oakdale, was authorized at a regular adjourned meeting of the directors of the Modesto Irrigation District. Plans for this work may be had from the chief engineer of the Modesto Irrigation District at Modesto.

HIGHWAY CONSTRUCTION — $74,-000. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. On recommendation of the County Highway Commission the bids submitted on the contract for paving division 8, section 1, Wasco-Lost Hills road, were rejected by the board as exceessively high. The lowest bid was that of W. A. Dontanville, Salinas, $81,204.10, and the highest that of Mesmer & Rice, Los Angeles, $120,-571.65. New bids will probably be called for within the next few days.

STREET IMPROVEMENTS—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Bids will be opened on May 15th for street work under the following resolutions: That C street, from the south line of California avenue to the north line of Chester Lane; C street, from the south line of Chester Lane to the north line of Palm street; A street, from the south line of California avenue to the north line of Chestnut Lane; Draeena street, from the west line of Oleander avenue to the east line of A street, together with all the intersections of streets and alleys. That Oleander avenue, from the north line of California avenue to the north line of 14th street, and that 13th street from the west line of Oleander avenue to the east line of C street, and that 14th street from the west line of F street to the west line of C street; and that C street, from the north line of California avenue to the south line of 14th street, together with all the intersections of streets and alleys. That M street, from the south line of California avenue to the north line of 8th street, together with all the intersections of streets and alleys. That I street from the south line of 5th to the north line of 4th, together with all the intersections of streets and alleys.

AUDITORIUM LIGHTING FIXTURES —$531.50. Visalia, Tulare Co., Cal. Architect, none. Owners, City of Visalia. The Visalia Electric Works, Visalia, presented the low figure for furnishing lighting fixtures for the new municipal auditorium and will be awarded the contract.

STREET PAVING—Cost not stated. Oakdale, Stanislaus Co., Cal. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. Bids will be received until May 15th at 8 p. m. for work under the following resolution: That F street, between the intersection of the west line of Bryan avenue with F street, along F street to the intersection of F

street with the east boundary line, be graded and an 18-foot strip thereof along the center of street be paved with asphaltic concrete with Topeka Top, said pavement to be 4 inches in thickness.

Contracts Awarded.

PACKING PLANT—1 story, frame and corrugated iron, $2,700. Clotho, Fresno Co., Cal. Architect, George R. Shannon, 1360 Glenn street, Fresno. Owner, John Quinn. Contractors, Jasper & Wilber, Fresno. Contract price, $2,700.

STORE ALTERATION—Brick, $4,200. Fresno, Fresno Co., Cal. Architect, none. Owner, L. W. Moultrie. Contractors, Dow & Camon, Fresno. Contract price, $4,200.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

RESIDENCES—9, 1 and 2 story and base, frame, $3,000 to $4,000. Stockton, San Joaquin Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner's name withheld. Location, Yosemite Terrace. These dwellings will contain from seven to eight rooms, bath and sleeping porch. Interiors will be finished in pine, redwood, gum and white enamel. Hardwood rooms. Furnace heat and open fire floors will be used in the principal places. Mantels tile and brick. Automatic water heaters. Bath rooms tile. Exteriors covered with rustic, shingles and cement plaster. Plans are being prepared.

APARTMENT HOUSE—3 story and base. Class C construction. Cost not stated. Eureka, Humboldt Co., Cal. Architects, Koenig & Christensen, Humboldt Bank Bldg., S. F. Owners, Daly Bros., Eureka. Location, Hillside and E streets. Will contain a total of 43 suites of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water supply. Bath rooms tile. Wall beds. Exterior faced with cement plaster. Plans complete and contract to be awarded at once.

BRIDGE—Steel and reinforced concrete. Cost not stated. Marysville, Yuba Co., Cal. Engineer, County Surveyors of Yuba and Nevada Counties. Owners, Yuba and Nevada Counties. County Surveyor L. B. Crook of Yuba County and County Surveyor Fred Miller of Nevada County have selected a site for the proposed Spencerville bridge and bids for the construction will be called for shortly. Plans for the bridge have already been prepared and will be approved within the next few days.

ARMORY—1 story and base, brick and reinforced concrete, $21,990. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. McLeran & Peterson, Sharon Bldg., S. F., presented the low figure for this work at $21,990 and will probably be awarded the work. A complete list of the bids opened will be found under the heading of Sacramento and Northern California in this issue.

IRRIGATION PROJECT — $480,000. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. Many bids received by the directors of the Anderson-Cottonwood Irrigation District have been rejected, while others have been held for further consideration. New bids will be called on that portion of the work for which bids were rejected. Bids that appear to be satisfactory are those covering the tunnel; the excavation of the main canal as far as Panorama Point, between Anderson and Cottonwood; the concrete siphons; the metal flumes, cement and bridges. Rejected bids cover in the main, the dam, Churn Creek siphons and some of the laterals of the excavation work. Further mention will be made of the work when new bids are called.

BATH HOUSE—1 story, concrete and frame. Cost not stated. Calistoga, Napa Co., Cal. Architect, Frank S. Holland, New Call Bldg., S. F. Owner's name withheld. Location Calistoga Mud Springs. Will contain rest rooms, plunge, sweat rooms and office. A separate building, also one story, will house the pumping plant. Interior finish pine, tile and hardwall cement. Special plumbing fixtures. Exterior faced with cement plaster. Metal tile roof. Plans complete and figures being taken.

HOSPITAL COTTAGES—Concrete and frame, $19,960. Yountville, Napa Co., Cal. Architect, State Architect George C. McDougall, Sacramento. Owners, State of California. Anderson & Ringrose, 320 Market street, S. F., presented the lowest bid for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

GARAGE—1 story, interlocking tile, $3,500. Sacramento, Cal. Architect, A. Willoner, 813 J street, S. F. Owner's name withheld. Location, 35th street, Oak Park. Will contain wash room besides the storage space. Interior finish pine. Special gasoline storage tanks. Exterior faced with cement plaster. Plans being prepared.

SEWER PIPE — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids received at the last meeting of the Eureka City Council for furnishing the city with 1,500 feet of vitrified, salt-glazed, sewer pipe in two and one-half-foot lengths were referred to the street committee for report. Bids were received from N. Clark, Eureka Building and Supply Co., and John Shaw.

Contracts Awarded

BANK AND OFFICES—8 story and base. Class A construction. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, George William Kelham, Sharon Bldg., S. F. Owners, Farmers' and Merchants' Bank. Contractor, P. J. Walker Co, Monadnock Bldg., S. F. Note: Contract taken on percentage basis and subfigures being taken on the various parts of the work.

BANK FIXTURES—Cost not stated. Plymouth, Amador Co., Cal. Architect, none. Owners, Amador County Bank. Contractors, Fink & Schindler Co., 226 13th street, S. F. Contract price not stated.

LODGE HALL ALTERATIONS—$5,000. Chico, Butte Co., Cal. Architect, Chester A. Cole, 215 Waterland Bldg., Chico. Owners, Chico Masonic Temple Association. Contractor, J. M. Evans, Chico. Contract price, $5,000.

CITY HALL—1 story and base, concrete and brick, $10,000. Winters, Yolo Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, City of Winters. Contractors, L. G. Bergren & Son, Hearst Bldg., S. F. Contract price, $10,000.

STREET PAVING—Cost not stated. Woodland, Yolo Co., Cal. Engineer, City Engineer, Woodland. Owners, City of Woodland. Contractors, Clark & Henery Construction Co., Ochsner Bldg., Sacramento. Contract price not stated.

STREET IMPROVEMENT—$5,841.04 Ripon, San Joaquin Co., Cal. Engineer, Town Engineer, Ripon. Owners, Town of Ripon. Contractor, S. W. McCleary, Lodi. Contract price, $5,841.04.

Receive Figures For Two State Jobs.

Contract For Boiler Equipment at Norwalk Awarded to Chas. C. Moore. Anderson & Ringrose Low on Other Work.

(By Special Wire.)

SACRAMENTO, CAL., May 3rd, 1916.—Bids were opened at today's meeting of the State Department of Engineering for the construction of four sanitary hospital cottages and six sanitary cottages to be erected at the Veterans' Home at Yountville, Napa County. Bids were also opened at Monday's meeting for boiler plant equipment to be installed in the power plant at Norwalk.

Anderson & Ringrose, 320 Market St., presented the low bid for the cottages at Yountville at $19,960 and will probably be awarded the work.

Charles C. Moore & Co., Sheldon Bldg., San Francisco, and Van Nuys Bldg., Los Angeles, presented the lowest figure for the boiler plant equipment at $20,310 and were awarded the work. Following is a complete list of the bids received:

Anderson & Ringrose, S. F.	$19,960
Harvey A. Klyce, S. F.	21,354
Ward & Goodwin, S. F.	21,565
F. L. Hansen, S. F.	22,200
Masow & Morrison, S. F.	22,485
Neil A. McLean, S. F.	22,500
Geo. W. Boxton & Son, S. F.	22,654
Frank Robinson	23,200
L. G. Bergren & Son, S. F.	23,456
Louis Cereghino & Son, S. F.	24,000
Joseph A. Flittner and Ed. G. Bassett, Oakland	25,734

Boiler Equipment, Norwalk State Hospital.

Chas C. Moore & Co., S. F. and Los Angeles	$20,310
Arthur Hess, Los Angeles	21,740
Thos. Haverty Co., Los Angeles	22,850
Howe Bros., Los Angeles	23,297
Robert Dalziel Jr., S. F.	25,357

Figures Received For Stockton State Armory.

McLeran & Peterson of San Francisco Present Lowest Figure For New State Building in Stockton.

(By Special Wire)

SACRAMENTO, CAL., May 4th, 1916—Fifteen sets of figures were opened by the State Department of Engineering for the construction of a one and part two-story Class "C" armory to be erected by the State at Stockton.

McLeran & Peterson, Sharon Bldg., San Francisco, presented the lowest bid at $21,990 and will probably be awarded the contract. Following is a complete

ednesday, May 10, 1916.

of the bids received:

Stockton State Armory.

eLeran & Peterson	$21,930
s. Furlong	22,030
oward S. Williams	22,976
, H. Phain	23,000
eo. W. Boxton & Son	24,411
. A. Klyce	24,656
nderson & Ringrose	24,930
. G. Bergren & Son	24,952
eil A. McLean	25,000
ound Constr. & Eng. Co.	25,231
ouis Cereghino & Son	25,928
rant Fee	26,000
lahoney Bros.	26,242
ameron & Disston	26,500
rank Robinson	27,375

LOS ANGELES & SOUTHERN CALIFORNIA.

OLLEGE EXPERIMENTAL STA-ON—1 story and base, concrete. Cost t stated. Riverside, Riverside Co., l. Architect, Lester H. Hibbard, rsh-Strong Bldg., L. A. Owners, Re-nts of the University of California. ds will be opened on May 20th for the neral construction, heating and ven-ating, plumbing, and electric work r the laboratory, residence and barns be erected at the Citrus Experi-ental Station. Plans can be secured om the architect.

Contracts Awarded

HOSPITAL BOILER EQUIPMENT—0,310. Norwalk, Los Angeles Co., gineer, State Engineer, Sacramento. wners, State of California. Contrac-rs, Charles C. Moore & Co., Sheldon ldg., S. F. Contract price, $20,310.

PORTLAND AND OREGON

CHURCH—2 story and base, brick nd stone, $40,000. Portland, Ore. Ar-hitects, Smith & Griffiths, Gerlinger ldg., Portland. Owners, St. Roses hudch. Location, Rose City Park Sta-ion. Will contain main auditorium, unday school rooms and social hall. nterior finish pine and ornamental laster. Art glass windows. Steam eat, oil burning system and vacuum leaning. Exterior faced with stone. Plans being prepared.

SEATTLE AND WASHINGTON

BRIDGE—Steel and reinforced con-crete, $35,000. Seattle, Wash. Engi-neer, County Surveyor, Seattle. Own-ers, King County. Bids have been called by the King County Commission-ers to be opened May 22nd for the con-struction of a steel bridge at Fall City. Center span will be 100 feet with two 95-foot spans and a fill approach.

HIGHWAY CONSTRUCTION — Cost not stated. Tacoma, Pierce Co., Wash. Engineer, County Surveyor, Tacoma. Owners, Pierce County. Bids have been called by the Pierce County Commis-sioners for the construction of eight miles of road in that county. The call provides for all classes of pavement, including bitulithic, concrete, bitucrete, brick, asphalt and wood block. The work includes the paving of six miles of the Mountain road and two miles of the Pacific Highway at Nisqually Hill. Bids for the former will be opened on May 26th and on the latter May 27th. Plans may be had from the County En-gineer at Tacoma, Wash.

Contracts Awarded

STREET PAVEMENT—Brick, $222,-691. Seattle, Wash. Engineer, City En-gineer, Seattle. Owners, City of Seat-tle. Contractor, Frank McLellan, Globe Block, Seattle. Contract price, $22,691.

PAVING — $84,400. Seattle, Wash. Engineer, County Surveyor, Seattle. Owners, King County. Contractors, Cascade Construction Co., Pacific Block, Seattle. Contract price, $84,400.

HANDBOOK ON UNITED STATES IN RUSSIAN.

The American-Russian Chamber of Commerce in New York has decided to publish a handbook of information in regard to the United States, to be printed in Rushian and distributed among Russian business houses through the Russian-American Chamber of Com-merce in Moscow.

The chief difficulty in the develop-ment of trade relationships between Russia and the United States has been the lack of a medium by which Ameri-can and Russian firms could make direct connections. The handbook of the United States will serve the double purpose of furnishing American busi-ness houses with a means of placing their products before the Russian cus-tomer and of enabling the Russian customer to open direct connections with American firms in a position to meet his requirements.

The handbook will present a concise survey of the principal features of commerce and industry in the United states. It will contain a selected di-rectory of American firms interested in the possibilities of the Russian market and in a position to meet the require-ments of Russian buyers, and it will devote a special section to advertising American products. The material for this handbook is now being prepared. All American firms interested in having their names placed in the directory or in reserving advertising space should write to the American-Russian Cham-ber of Commerce, 60 Broadway, New York.

RAILWAY CONSTRUCTION IN CHINA.

The press in China has been report-ing from time to time what purports to be progress in construction work on various railway lines now under way. Upon inquiry at the Ministry of Com-munications, the American commercial attache at Peking is informed that there are at present but two railways under actual construction in China, the Hukuang Railways and the Lung-Hai Railway, the former from Hankow to Changsha, in the Yangtze Valley, and the latter from Hsuchowfu on the Tientsin-Pukow Railway, to Honanfu, and thence to Lanchowfu, in Kansu Province.

The Hukuang Railways are under construction upon the basis of the agreement between China and the four powers, Great Britain, the United States, Germany, and France. The Lung-Hai Railway is under construc-tion on the basis of an agreement be-tween Belgium and China, but owing to the war the construction work is badly affected.

The Ministry of Communications states that arrangements are being perfected for the extension by the Chinese Government of the Peking-Kalgan Railway during the coming spring, so that construction work on this extension may be expected to be under way during the summer.

Activities by American Concerns.

The British section of the Hukuang Railway recently closed bids for ma-terial for the construction of six bridges, the contract having been se-cured by an American company. This section of the railway has also recent-ly purchased 10 American locomotives, and 10 locomotives are also being ad-vertised for by the Peking-Hankow Railway. A contract with an American firm for the supply of 50 cars was con-cluded some time ago with the Tient-sin-Pukow Railway.

Railway construction work in China is practically at a standstill on ac-count of the war. The European pow-ers which hold railway concessions in this country are not in a position to build the lines called for by these con-cessions. The ministry of communica-tion is advertising a loan for the Peking-Kalgan Railway for the sum of $1,000,000 Mexican for extension work.—Commerce Reports.

GOVERNORS' CONFERENCE.

SALT LAKE CITY, May 7.—How American states can help meet the commercial and economic conditions after the world war is the big question to be discussed at the ninth annual meeting of the Governor's Conference which opens here Tuesday, June 27. Executives from most of the forty-eight states are expected to be present at the time.

It is held by the governors who are arranging the program that while prep-aration for war is a matter essentially for the federal government, preparation for peace and for commerical agricul-tural and industrial development under the new conditions which will obtain when world peace is established is a matter to be handled by the states in-dividually, and that the greatest ef-ficiency can be secured through uni-formity of action by the states insofar as practicable. Some of the problems involved in this economic readjustment, according to Miles C. Riley, secretary of the Governor's Conference, are: mo-bilization of American resources, in-dustries and commerce, distribution of the immigrant, and land settlement policies. It is likely also that some phases of the general subject, prepared-ness for national defense and the re-lation of the state thereto, will be presented and discussed by the gover-nors.

"The present world war," said Sec-retary Riley, "has forced upon Europe greater efficiency in production and distribution, a quicker moving, less wasteful commercial system, which has been so thoroughly organized as to include all business from the first steps in agriculture to the last steps in man-ufacture and transportation. The new methods, with their savings of effort and money and with their efficiency and convenience, have come to stay. This movement has been intensified by the war and will become even more intense in the efforts of nations to re-coup and build up when the war ends. International competition will be keener than ever before. It is America's problem to be prepared to meet these new conditions."

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1280	Butler	Smith	100
1281	Same	Same	2874
1282	Heyman	Heyman	1950
1283	Krelling	Binet	400
1284	Reis	Reis	950
1285	Thompson	Thompson	400
1286	Mer Nat'l	Urfer	400
1287	Mott	Rinaldo	450
1288	Gigliami	Perona	400
1289	Johnson	Kern	1000
1290	Craig	Craig	2000
1291	O'Connor	Carson	4115
1292	Petersen	Todhunter	8500
1293	Moranto	Grahn	2000
1294	Sattler	McKay	5700
1295	Pharion	Newton	2800
1296	Miller	Speidel	3600
1297	Harnett	Montani	5600
1298	Schwabacher	Cavanagh	1740
1299	Sachau	De Luca	6238
1300	Union Iron Works	Cramer	1490
1301	Same	Spencer	2750
1302	Same	Snook	3434
1303	Same	Franz	32335
1304	Same	Scott	2600
1305	Buck	Joost	600
1306	Lawrence	Sibley	460
1307	Otis	Cole	
1308	Schwarz	Grahn	2000
1309	Manning	Montgomery	3500
1310	Jensen	Christensen	1600
1311	Klute	Mohler	2800
1312	Hentzel	Thorup	2350
1313	Welsh	Welsh	3000
1314	Roberts	Novelty Elec	400
1315	Markowitz	Novelty	400
1316	Lorudeaux	Lordeaux	1000
1317	Carrick	Carrick	700
1318	Born	Born	5000
1319	Heyman	Heyman	2750
1320	Hyman	Stock	850
1321	Draeger	Rowland	500
1322	Baylacq	Healing	400
1323	Flinn	Treacy	450
1324	Sterling	Sterling	400
1325	Venturini	Pasqualetto	450
1326	Driscoll	Heaphy	1000
1327	Scohle	Scohle	15000
1328	Broderick	Vezina	2734
1329	Nolan	Nolan	3500
1330	Luvisi	Merz	4000
1331	Logan	Nelson	12800

FRAME BUILDING

(1280) SE HAYES AND OCTAVIA E 62-6xS 120. Patching and pointing for threee-story and basement frame building.

Owner.....J. W. Smith and Est. Thos. Butler, dec'd, bondsmen under former contract bet. Daniel M. Moran & Martin H. Garrick.

Architect...Chas. J. I. Devlin, Pacific Bldg., San Francisco.

Contractor Jas. F. Smith, Mondanock Bldg., San Francisco.

Filed Apr. 28, '16. Dated Apr. 15, '16. Completed and accepted.....

TOTAL COST, $100

Bond, $50. Sureties, Daniel O'Neill and Chas J. Powers. Limit, none. Forfeit, $25 Plans and specifications, none.

(1281) LATHING, PLASTERING AND cementing (exclusive of patching and pointing) on above.

Contractor Jas. F. Smith, Mondanock Bldg., San Francisco.

Filed Apr. 28, '16. Dated Apr. 15, '16. 1st and 15th of each month as work progresses..... 75%

Usual 35 days.....$718.50

TOTAL COST, $2874.00

Bond, $1437. Sureties, Daniel O'Neill and Chas. J. Powers. Limit, none. Forfeit, $25. Plans and specifications, none.

FRAME DWELLING

(1282) E THIRTY-FOURTH AVE 300 N Fulton. One-story and basement frame dwelling.

Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.

Architect...None.

Day's work. COST, $1950

FRAME SHOP

(1283) S HICKERY 100 E Valencia. One-story frame shop.

Owner.....Kreling Bros., 16th and Hoff Ave., San Francisco.

Architect...None.

Contractor..John J. Binet Co., 68 Ramona, San Francisco.

COST, $400

FRAME OFFICE

(1284) W **THIRD** 476 S **20th.** One-story frame real estate office.

Owner.....J. Reis, Piedmont.

Architect...None.

Day's work. COST, $950

RAISE DWELLING

(1285) E MOULTRIE 75 S Odgen. Raise and ratproof dwelling.

Owner.....Chas. Thompson, 635 Moultrie, San Francisco.

Architect...None.

Day's work. COST, $400

ALTERATIONS

(1286) SE NEW MONTGOMERY AND Market. Remove partition and erect plain board panels.

Owner.....Merchants National Bank, Premises.

Architect...None.

Contractor..Chas. E. Urfer, 555 Pine, San Francisco.

COST, $400

FOUNDATIONS

(1287) NO. 110 BERNARD. Foundations, concrete floors, etc.

Owner.....Frank K. Mott Co., Okd.

Architect...None.

Contractor..Rinaldo & Co., 71 Bernard, San Francisco.

COST, $450

ALTERATIONS

(1288) NO. 435 JACKSON. New front and minor changes.

Owner.....A. S. Gigliani, Premises.

Architect...None.

Contractor..John Perona, 568 7th, Okd.

COST, $400

ALTERATIONS

(1289) NW FOURTEENTH & HOWard. Alter store into offices.

Owner.....Mrs. Rixford Johnson.

Architect...L. P. Rixford, Sharon Bldg San Francisco.

Contractor..L. A. Kern, 3646 17th, S. F.

COST, $1000

FRAME DWELLING

(1290) W EIGHTH AVE 100 N Norlega Two-story and basement frame dwlg

Owner.....Thos. Craig, 526 Haight San Francisco.

Architect...None.

Day's work. COST, $2000

FRAME DWELLING

(1291) W THIRTY-FIRST AVE 256-8 N Clement N 27-3½ W 120 S 39-8½ — 120-7½. All work for two-story and basement frame dwelling.

Owner.....Mary F. O'Connor, 298 Fair Oaks, San Francisco.

Architect...Sam Lightner Hyman, 2230 Sacramento, San Francisco.

Contractor..Otto Carson & Co., 1919 Hayes, San Francisco.

Filed Apr. 29, '16. Dated Apr. 26, '16.

Roof on $1026.25

Brown coated 1026.25

Completed and accepted..... 1026.25

Usual 35 days..... 1026.25

TOTAL COST, $4105.00

Bond, $2052. Surety, Maryland Casualty Co. Limit, 90 days after May 1, 1916. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS

(1292) W FOURTH AVE 200 N Geary. Three-story and basement frame (5) apartments.

Owner.....Miss Hulda Petersen, 442 29th Ave., San Francisco.

Architect...D. Olsen, 425 Powell, S. F.

Contractor..Geo. C. Todhunter, 446 29th Ave., San Francisco.

COST, $8500

FRAME DWELLING

(1293) S KEY 50 E Jennings. One-story and basement frame dwelling.

Owner.....Chas. Moranto, 1456 Innez Ave., San Francisco.

Architect...None.

Contractor..Wm. H. Grahn, 2840 Bryant San Francisco.

COST, $2000

FRAME FLATS

(1294) E FIFTH AVE 125 N Clement. Two-story and basement frame (2) flats.

Owner.....W. Sattler, 348 Clement, San Francisco.

Architect...None.

Contractor..Hantzsche & McKay, 528 31st Ave., San Francisco.

COST, $5700

ALTERATIONS

(1295) NOS. 614-616 LINDEN. Raise, underpin and change frame building into apartments.

Owner.....F. M. Pharion, 717 Hayes, San Francisco.

Architect...John T. Kidd, 456 Clipper, San Francisco.

Contractor..John Newton, 165 Franklin, San Francisco.

COST, $2800

ALTERATIONS

(1296) NOS. 1003-1005 GOLDEN GATE Ave. Alter present 2 flat building

ito 4 apartments. Separate baths nd toilets, new electric wiring, iombing, painting and other changes i interior.
ner.....L. Miller, 775 Mission, San Francisco.
igner ...P. F. Speidel, 480 3rd Ave., San Francisco.
tractor..P. F. Speidel, 480 3rd Ave., San Francisco.
COST, $3000

AME FLATS
67) NW GLOVER AND JONES. hree-story and basement frame (3) ats.
ner.....C. M. Harnett, 1450 Taylor, San Francisco.
hitect ...J. A. Porporato, 619 Washington, San Francisco.
tractor..Montano & Stefanini, 1753 Greenwich, San Francisco.
COST, $5600

TERATIONS
98) NO. 1820 CLAY. All work for lterations to residence.
ner.....Mrs. L. Schwabacher,
hitect ...C. A. Haber, 358 25th Ave., San Francisco.
ntractor..T. A. Cavanagh.
ed May 1, '16. Dated Apr. 1, '16.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $1740
nd, $870. Sureties, R. J. H. Forbes l E. S. Rainey. Limit, 60 days after ril 15. Forfeit, $10. Plans and speciations filed.

TERATIONS
99) SE GREEN AND BATTERY E 37-6xS 45-10. All work for alterations to present building.
ner.....Ella Sachau.
chitect ...T. Patterson Ross, 310 California, San Francisco.
ntractor..R. De Luca, 2256 Jones, San Francisco.
ed May 1, '16. Dated Mar. 12, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $6238
nd, $3119. Surety, Massachusetts nding & Insurance Co. Limit, 45 ys from filing. Forfeit, $10. Plans d specifications filed.

AINTING
300) E PENNSYLVANIA 100 S 18th S 100xE 100. Painting for two-story and basement reinforced concrete hospital building.
vner.....Union Iron Wks, 311 California, San Francisco.
chitect ...Frederick H. Meyer, Bankers' Invst. Bldg., S. F.
ntractor..Cramer Bros., 742 14th, San Francisco.
ed May 1, '16. Dated Apr. 27, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1490
ond, $745. Surety, Guardian Casualty Guaranty Co. Limit, 100 days. Forfit, none. Plans and specifications ed.

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301) ELEVATOR WORK ON ABOVE
ontractor..Spencer Elevator Co., 128 Beale, San Francisco.
iled May 1, '16. Dated Apr. 27, '16.
Payments same as above.....
TOTAL COST, $2750
ond, $1375. Surety, Maryland Casualty o. Limit, 100 days. Forfeit, none. lans and specifications filed.

(1302) PLUMBING WORK ON ABOVE
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed May 1, '16. Dated Apr. 27, '16.
Payments same as above.....
TOTAL COST, $3434
Bond, $1717. Surety, United States Fidelity & Guaranty Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1303) EXCAVATION, CONCRETE, fireproofing, brick, marble, iron, glass, glazing, carpenter, plastering, etc., on above.
Contractor..Val Franz & Son, 185 Stevenson, San Francisco.
Filed May 1, '16. Dated Apr. 27, '16.
Payments same as above.....
TOTAL COST, $32,355
Bond, $16,177.50. Surety, Maryland Casualty Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1304) HEATING AND VENTILATING on above
Contractor..Scott Co., 243 Minna, S. F.
Filed May 1, '16. Dated Apr. 27, '16.
Payments same as above.....
TOTAL COST, $2600
Bond, $1300. Surety, New Amsterdam Casualty Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

FINISH HARDWARE
(1305) SW LOCUST AND WASHINGTON — 45 S 100 E 45 N 100. Finish hardware for building.
Owner.....John A. Buck Jr., 503 Market, San Francisco.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Joost Bros., 1053 Market, San Francisco.
Filed May 3, '16. Dated Apr. 22, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $600
Bond, limit, forfeit, plans and specifications, none.

FRAME RESIDENCE
(1306) S VALLEJO 35 E Broderick E 137-6xE 35. Excavation and grading for two-story and basement frame residence.
Owner.....C. M. Laurence.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..A. B. Sibley, 180 Jessie, San Francisco.
Filed May 3, '16. Dated Apr. 25, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $460
Bond, limit, forfeit, none. Plans and specifications filed.

(1307) SE MARKET 75 SW Eighth SW 200 SE 275 NE 155 NW 105 NE 45 NW 170. Alterations in rough and other carpenter work, glazing, etc., to seven story and basement Class "B" building.
Owner.....Jas Otis Trustee, 310 California, San Francisco.
Architect ...Wright & Rushforth, 354 Pine, San Francisco.
Contractor..Percy J. Cole, 1364 12th Ave., San Francisco.
Filed May 3, '16. Dated Apr. 24, '16.
Owner to pay all bills for labor and material as work progresses
Contractor to receive 5% of total cost.
Bond, none. Limit, as rapidly as possible. Forfeit, none. Plans and specifications, none.

FRAME DWELLING
(1308) E WHITNEY 225 S Randall. One and one-half-story and basement frame dwelling.
Owner.....Frederick Schwarz, 135 Whitney, San Francisco.
Architect ...None.
Contractor..Wm. H. Grahn, 2810 Bryant San Francisco.
COST, $2000

FRAME FLATS
(1309) NO. 3532 SEVENTEENTH (rear) Two-story and basement frame (2) flats.
Owner.....Mrs. Annie Manning, Prem.
Architect ...None.
Contractor..E. J. Montgomery, 1320 Broadway, San Francisco.
COST, $3500

FRAME DWELLING
(1310) W FORTY-FOURTH AVE 75 S Clement. One-story and basement frame dwelling.
Owner.....Anna Jensen, 32 Middle, San Francisco.
Architect ...None.
Contractor..Theodore Christensen, 32 Middle, San Francisco.
COST, $1600

FRAME RESIDENCE
(1311) W TWENTY-FOURTH AVE 340-4 N Balboa. Two-story and basement frame residence.
Owner.....Wm. Klute, 349 Clement, San Francisco.
Architect ...None.
Contractor..T. E. Mohler, 255 8th Ave., San Francisco.
COST, $2800

FRAME DWELLING
(1312) E TWENTY-FOURTH AVE 100 N Balboa. One-story and basement frame dwelling.
Owner.....Alice E. Hentzel, 31-A Duboce Ave., San Francisco.
Architect ...None.
Contractor..J. H. Thorup, 281 26th Ave., San Francisco.
COST, $2350

FRAME RESIDENCE
(1313) W EIGHTEENTH AVE 275 S Anza. Two-story and basement frame residence.
Owner.....James Welsh, 549 18th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

ELECTRIC SIGN
(1314) NO. 18 TURK. Electric sign.
Owner.....Roberts Bros., Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ELECTRIC SIGNS
(1315) NO. 1460 MARKET. Electric sign.
Owner.....S. Markowitz, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

FRAME DWELLING
(1316) HOLLY PARK TRACT Blk 7, Lot 16. One-story and basement frame dwelling.
Owner.....J. Lorndeaux.
Architect ...None.
Day's work. COST, $1000

DWELLING
(1317) SW IRVING AND SIXTH AVE. One-story frame store and dwelling.
Owner.....M. H. Carrick and wife, 1358 Fell, San Francisco.
Architect ...None.
Contractor..Wm. A. Carrick, 613 Market San Francisco.
COST, $700

FRAME RESIDENCE
(1318) LINCOLN MANOR Lot 30. Two-story and basement frame residence.
Owner.....S. A. Born Bldg. Co.; 660 Market, San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $5000

FRAME DWELLING
(1319) SE MISSION 200 W Santa Maria. Two-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $2750

ALTERATIONS
(1320) NOS. 113-115 STOCKTON. Alter store.
Owner.....Hyman Bros. Co., Care Architect.
Architect ...H. H. Meyers, Kohl Bldg., San Francisco.
Contractor..Lester H. Stock, Hearst Bldg., San Francisco.
COST, $850

ALTERATIONS
(1321) NO. 932 SILVER. Raise and alter dwelling.
Owner.....F. H. Draeger, Premises.
Architect ...None.
Contractor..T. J. Rowland, 236 Richard San Francisco.
COST, $500

NEW FRONT
(1322) NO. 3021 SACRAMENTO. New front.
Owner.....P. Baylacq, Lessee.
Architect ...None.
Contractor..Geo. Healing, 3665 Sacramento, San Francisco.
COST, $400

MASONRY WALL
(1323) W RHODE ISLAND 75 S 22nd. Construct masonary wall.
Owner.....Flinn & Treacy, 1st National Bank Bldg., S. F.
Architect ...None.
Day's work. COST, $450

ALTERATIONS
(1324) NO. 546 MARKET. Alter front
Owner.....Sterling Realty Co., 544 Market, San Francisco.
Architect ...None.
Contractor..Chas. E. Urfer, 555 Pine, San Francisco.
COST, $400

UNDERPIN WALL
(1325) SE BUCHANAN AND UNION. Underpin wall, etc.
Owner.....Valeti Venturini, 1774 Union, San Francisco.
Architect ...None.
Contractor..J. Pasqualetti, 785 Market, San Francisco.
COST, $450

FRAME DWELLING
(1326) NO. 28 CHATTANOOGA (rear). One-story and basement frame dwlg.
Owner.....J. A. Driscoll, Premises.
Architect ...None.
Contractor..J. J. Heaphy, 1721 Lombard San Francisco.
COST, $1000

FRAME STORES AND FLATS
(1327) SE GEARY AND 19TH AVE. Two-story and basement frame stores and (2) flats.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $15,000

ALTERATIONS
(1328) NO. 3806 CLAY. All work for alterations and additions to building.
Owner.....Dr. R. G. Brodrick, 2741 Union, San Francisco.
Architect ...John Reid Jr., Chronicle Bldg., San Francisco.
Contractor..L. N. Vezina, 180 Jessie, San Francisco.
Filed May 5, '16. Dated May 4, '16.
All old work removed and rough framing up $683
Plastering completed and new and old roofing finished..... 683
Completed and accepted..... 684
Usual 35 days..... 684
TOTAL COST, $2734
Bond, $1367. Surety, New Amsterdam Casualty Co. Limit, 50 days. Forfeit, $5 . Plans and specifications filed.

FRAME DWELLING
(1329) W FIFTEENTH AVE 175 S Anza S 25x120. All work for two-story frame dwelling.
Owner.....Jos. Nolan.
Architect ...None.
Contractor..Wm. P. Nolan.
Filed May 5, '16. Dated Feb. 5, '16.
Rafters on $875
Brown coated 875
On completion 875
Usual 35 days..... 875
TOTAL COST, $3500
Bond, none. Limit, May. 4, 1916. Forfeit, none. Plans and specifications, none.

ALTERATIONS
(1330) NW EDDY AND PIERCE. All work for alterations and additions to two-story frame building.
Owner.....Virginia Luvisi.
Architect ...None.
Contractor..John H. Merz, 271 Lily, San Francisco.
Filed May 5, '16. Dated May 3, '16.
Rough frame up.....$1000
Brown coated 1000
Completed and accepted..... 1000
Usual 35 days..... 1000
TOTAL COST, $4000
Bond, $2000. Surety, Fidelity & Deposit Co. of Maryland. Forfeit, none. Limit, 60 days. Plans and specifications filed.

RESIDENCE FLATS
(1331) N GREEN 97-6 W Leavenworth 40x60. All work for three-story and basement concrete and frame (2) residence flats.
Owner.....Roscoe L. Logan, Whitney Bldg., San Francisco.
Architect ...Harris Allen, Central Bank Bldg., San Francisco.
Contractor..A. D. Nelson, 1004 Hearst Bldg., San Francisco.
Filed May 5, '16. Dated Apr. 16, '16.
Concrete poured $2400
Frame up 2400
Completed and accepted..... 2400
Usual 35 days..... 320
TOTAL COST, $12,80
Band, limit, 90 days from filing. Forfeit, none. Plans and specification filed.

BUILDING TOTALS HOLD TWO MILLION DOLLAR MARK.

Report of City Building Departmen Shows Large Amount of Building Construction.

More than two million dollars wer invested in building construction durin the month of April, according to figure compiled by the Bureau of Buildin Permits of the Department of Publi Works. The total for the month o April amounted to $2,247,187 while thos for the month of March totaled $2,512, 328.

For April there was a total of 62 permits issued, of these seven being fo Class "A" buildings; one for Class "B and 26 for Class "C" structures. On building for the harbor commissioner and one public building is included h the report.

The complete report of the Bureau follows:

Class	No. Permits	Cos
"A"	7	$ 483,04
"B"	1	200,00
"C"	26	578,71
Frames	197	745,55
Alterations	396	197,87
Public Bldg.	1	30,00
Harbor Commissioners	1	12,00
Total	629	$2,247,18

LEASES

May 4, 1916—LOT "D" BLK 79, Centra Park Hd Ass'n Blk 79, South Sa Francisco. S F Disposal Co to I Cords Jr. 1 year with option to re new. $100 per month.

May 4, 1916—S PINE 62-6 E Baker I 25xS 87-6; No. 2825 Pine. Hans Osca Anderson and Augusta Josephine An derson to W McKenzie. 2 years. $480 Extended May 3, 1916 for 3 years.

May 4, 1916—NO. 2293 THIRD and No 640 20th NE 20th and Third. Margaretta Hollman to L N Leboire an C J Stuart. 5 years. $75.

May 4, 1916—NO. 859 KEARNY SW Cor Jackson. P and T McDonough to C Gotelli and A Fontana. Fixtures, etc 2 years. $1015.

May 3, 1916—NE CORTLAND AVE AN Bocana No. 301 Cortland Ave. Georg Swan to William Gilheaney. 3 years $1080.

May 3, 1916—S FILBERT 125 W Octavi S 137-6xW 25. Emile Daclin to Quong Lee. 5 years. $40 per month.

Apr. 29, 1916—NOS. 168-170 GOLDEN Gate Ave. Central Garage Co t Harry E Taylor, Robert Martin an John M Henney (as Civic Center Aut Exchange). April 15, 1917. $100 pe month with option to renew.

May 1, 1916—S JACKSON 80 E Davis E 40xS 60; No. 79 Jackson. Samuel and M E Sprio to J J Enos. 5 years. $810

INCORPORATIONS.

Co-operative Wholesale Co. Capital Stock, $25,000; subscribed, $400; shares, $100 each. Directors—E. O. F. Ames, C. E. Todd, M. C. Todd, N. Rich, 1 share each. Place of business, S. F.

Grand Theatre Co. Capital Stock, $20,000; subscribed, $30; shares, $10 each. Directors—R. A. Floodberg, C.

Wright, R. M. Tapscott, 1 share each. ace of business, San Francisco.

OTICE OF NON-RESPONSIBILITY.

ay 1, 1916—N CALFORNIA 152-6 E 15th Ave E 25xN 100. San Francisco Land Co as to improvements on leased property.....
ay 5, 1916—S CLAY 150 E Drumm E 50xS 119-6. Martime Hall Ass'n as to improvements on leased property

ASSIGNMENT OF LIEN.

ay 4, 1916—W FIFTEENTH AVE 25 S Anza S 25xW 90. Hyman Glick to Jennie C Meyer.....

COMPLETION NOTICES

San Francisco

RECORDED ACCEPTED
pril 1, 1916—S WASHINGTON 97 W Battery 40-6x122. R Jordan Estate Co to Wade & Carlson..Mar. 30, 1916
pril 1, 1916—W EIGHTEENTH AVE 175 S Geary S 50x120. Frederick F Heine to whom it may concern.....
.....April 1, 1916
pril 1, 1916—LOT 5 BLK 11, Crocker Amazon Tract. Emil Nelson to whom it may concern...Mar. 31, 1916
pril 1, 1916—E TWELFTH AVE 75 N Cabrillo N 25xE 95. Alton R Lapham to whom it may concern..
.....April 1, 1916
pr. 3, 1916—NE MEDA AVE 125 NW Otsego 25x70; NE Meda Ave 150 NW Otsego 25x70. Jas Arnott & Son to whom it may concern....Apr. 1, 1916
pr. 3, 1916—W EIGHTEENTH AVE 100 S Geary S 25xW 120. Phebe A and Edward W Allelgh to whom it may concern.....Apr. 3, 1916
pr. 3, 1916—F TWENTY-SECOND Ave 250 S Anza S 25xE 120. Jacob Weissbein to George F Cleese.....
.....April 1, 1916
pr. 3, 1916—S SEVENTEENTH 97 W Belvedere — 25 S 114 E 25 N 114. N J Nelson to whom it may concern.....April 3, 1916
pr. 3, 1916—NE PALOU AVE 150 NE Keith 75x100. Michaele or Michele Esposito to P H Madden...
.....April 1, 1916
pr. 3, 1916—NE PALOU AVE 150 NE Keith 75x100. Michele Esposito to Paul Messner.....Apr. 1, 1916
pr. 3, 1916—NO. 1376 CHURCH W line 86 N 26th. G Mugele to A Ahlbach..... .....Mar. 31, 1916
pr. 4, 1916—S TWENTY-THIRD 81-8 W Howard W 40-10 S 85 E 44-6 N 49-6 E 5 N 8-6 W 3-8 N 27. J H Kruse to Joel Johnson....Mar. 4, 1916
pr. 4, 1916—S SUTTER 87-6 E Hyde E 25xS 137-6. Louos D Stoff to whom it may concern....Apr. 3, 1916
pr. 4, 1916—S GEARY 83-6 E Leavenworth E 27xS 83-6. W L Heise to Hogberg & Ludwig, Mar. 24; Nilson & Arras.....Mar. 28, 1916
pr. 4, 1916—N ANZA (A) 82-6 W 16th Ave W 25xN 100. James Donahue to whom it may concern....
.....April 4, 1916
pr. 5, 1916—E TENTH AVE 100 S Balboa 50x120. Otto E Anderson to whom it may concern....Apr. 4, 1916
pr. 4, 1916—S NINETEENTH 225 W Guerrero 25x114. Michael and Annie B Cooper to John Burns.....
.....March 28, 1916
pr. 5, 1916—E FORTY-SIXTH AVE 275 S Balboa S 25xE 120. Bertha J Clausen to O K Holt....Mar. 30, 1916
pr. 5, 1916—E ARGUELLO BLVD 44 S Carl S 25 E 100 N 5 W 25 — 20 W 75. Elinora T Christiansen to whom it may concern..April 5, 1916
pr. 6, 1916—W HARRIET 200 N Folsom; Nos. 62 and 64 Harriett. Morris Farber to whom it may concern.....April 6, 1916
pr. 6, 1916—E HAROLD AVE 400 S Bruce Ave S 25xE 112-6. Walker E and Mary E Gray to Weber & Shaw
.....Mar. 28, 1916
pr. 6, 1916—E ½ LOT 20 BLK 11, College Hd Ass'n. Joseph Cuneo to whom it may concern..April 6, 1916
pr. 6, 1916—W GUERRERO 56-6 N 20th N 46-8 W 105 S 26-8 E 0-2 S 20 E 104-10. Isaac, Samuel and Abraham Friedman to whom it may concern.....April 5, 1916
pr. 6, 1916—SE BRAZIL AND EDINburgh E 100xS 25. John Schroeder to Robert Trost.....Apr. 5, 1916
pr. 7, 1916—W FORTY-FIFTH AVE 120 S Geary S 108xW 120. Sutro Heights Land Co to whom it may concern.....April 5, 1916
pr. 7, 1916—NW GEARY AND 25TH Ave 30-11x100. John H Green to whom it may concern....Apr. 6, 1916
pr. 7, 1916—E EIGHTEENTH AVE 250 S Anza S 25xE 120. Charles J H Schultz to whom it may concern
.....April 7, 1916
pr. 8, 1916—NW ARLINGTON 154 SW Miguel SW 25xNW 100 Lot 28 Henaries Sub Blk 9, Fairmount Tct. William Miller to whom it may concern.....Apr. 4, 1916
pr. 10, 1916—S WALLER 85 E Schrader E 25xS 100. O G Freyermuth for Schrader Estate Co to A Klahn & Son.....Apr. 10, 1916
pr. 10, 1976—W COLLINS 315 N Geary N 25xW 123-0½. Jeanette Yates to whom it may concern.....
.....April 6, 1916
pr. 10, 1916—N CARL, bet. Cole and Clayton; No. 40 Carl. Mrs E M M Norton to L A Kern.....Apr. 10, 1916
pr. 10, 1916—N GREEN 153-8 W Octavia N 137-6xW 29-6. Delia B Mahoney to Sjogren Bros....Apr. 8, 1916
pr. 10, 1916—SW FOLSOM AND Twenty-sixth W 170 S 150-9¼ m or l S 86 deg 35 min E 175 m or l N 173. J W Kerr, John H Samml, Geo W Reed, R V Lucy, Herman Van Luven and H T Harper as The Bd Trustees of Cogswell Polytechnical College to Western Iron Works...
.....April 1, 1916
pr. 10, 1916—E STEINER 35-2¼ S Jackson S 27-6xE 61-4. Sophie Grannis to whom it may concern..
.....April 7, 1916
pr. 10, 1916—S VALLEJO 114-7 W Hyde W 22-11xS 137-6. Dirk Van Erf and Mary Van Erf (wife) to John G Chase Jr.....Apr. 8, 1916
pr. 11, 1916—N GEARY 47-6 E Larkin E 40 N 137-6 — 27-6 S 57-6 W 12-6 S 80. H H Helbush to James S Fennell.....Apr. 4, 1916
pr. 11, 1916—LOT 24 BLK 8, Crocker Amazon Tract. John Bjorkman to whom it may concern..Apr. 10, 1916
pr. 11, 1916—E TWENTY-FIFTH Ave 100 N Anza N 25xE 120. Elmer E Clark to whom it may concern..
.....April 10, 1916
pr. 11, 1916—W NINTH AVE 25 S Lake S 150 W 120 N 75 E 25 N 75 E 95. Percy R Tyler to whom it may concern.....April 11, 1916
pr. 12, 1916—SW NINETEENTH AV and California 25x70 Sofie Leon to Martin Nolan.....Apr. 8, 1916
pr. 12, 1916—W WARE 175 S Paul Ave S 25 W 112 NW 30-6¾ E 129 Lot 4 Ptn 12 Blk 7, Garden Tract Hd Ass'n. Homestead Realty Co to Wm H Grahn.....Apr. 10, 1916
pr. 13, 1916—SE MISSION 200 NE Brazil Ave NE 25 SE 83-6 Ptn Lot 3 Blk 2 Excl Hd Ass'n. Fred A Steinmann to whom it may concern.....Apr. 1, 1916
pr. 13, 1916—E VALENCIA 135 S 18th S 75xE 80. Richard J Glazler to Hansbrough-Johnston Co.....
.....April 11, 1916
pr. 13, 1916—E THIRTIETH AVE 125 N Clement N 25xE 120. Thomas Hamill to whom it may concern...
.....April 13, 1916
pr. 13, 1916—LOTS 32 AND 33 BLK 23, Forest Hill. Jane B and Horace H Allen to Higginson Co..Apr. 13, '16
pr. 13, 1916—W FOURTH AVE 195-9 S Parnassus Ave S 25x120. Edward Cox to Cox Bros.. .....Apr. 12, 1916
pr 14, 1916—LOT 32 BLK 2983 Claremont Court. Mabel R Mix to Barz & Hughes.....April 13, 1916
pr. 14, 1916—NO. 2970 BROADWAY. Sidney M Ehrman to Stockholm & Allyn.....April 11, 1916
pr. 14, 1916—NO. 275 O'FARRELL. Daniel Roth to Farrell & Reed.....
.....April 12, 1916
pr. 14, 1916—SE JONES & VALLEJO 61-6x137-6. H P Livermore to Marcus Marcussen.....Apr. 7, 1916
pr. 15, 1916—LOT 7 BLK 12, Forest Hill. John S Malloch and Johann J Malloch to whom it may concern
.....Completed ——
pr. 15, 1916—NE NINETEENTH Ave and Balboa E 82-6xN 25. Martin and Hans Nelson to whom it may concern.....Apr. 13, 1916
pr. 15, 1916—SE CHERRY AND Jackson. Walter E Buck to Williams Bros & Henderson.Apr. 14, 1916
pr. 17, 1916—W TENTH AVE 200 S Judah S 25xW 120. John M. Christiansen to whom it may concern..
.....Completed —
pr. 17, 1916—LOT 5 BLK 13, Crocker Amazon Tract. W G Smith and Emma C Smith to O E Evans & Co
.....April 14, 1916
pr. 17, 1916—W LEAVENWORTH 37-6 N Filbert N 25xW 87-6. Louis and Jennie Torre to whom it may concern.....Apr. 15, 1916
pr. 17, 1916—S FOLSOM & RITCH SE 175 SW 75 SE 50 NE 75 NW 50. Johnson Gear Co to Wade & Carlson
.....April 8, 1916
pr. 18, 1916—W ELEVENTH AVE 225 N Anza. Leo J Ruegg to whom it may concern.....Completed —
pr. 18, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to American Marble & Mosaic Co.....Apr. 13, 1916
pr. 18, 1916—LOT 2 BLK 23, Crocker Amazon Tract. John Bjorkman to whom it may concern..Apr. 17, 1916
pr. 18, 1916—LOT 9 BLK 25, Crocker Amazon Tract. John Bjorkman to whom it may concern...Apr. 17, 1916
pr. 19, 1916—E TWENTY-FOURTH Ave 75 N Balboa N 25xE 104-1. Jacob H Thorup to whom it may concern.....April 19, 1916
pr. 19, 1916—W SIXTEENTH AVE 75 S Balboa S 25xW 82-6. Jno S Purcell to whom it may concern..
.....April 18, 1916
pr. 20, 1916—S CLARA 250 W 5th W 25xS 80. Emil Nelson to whom it may concern.....Apr. 19, 1916

Apr. 20, 1916—E THIRTIETH AVE 25 N Clement N 100 E 120 S 25 W 25 S 25 W 25 S 56 W 75. Thomas Hamill to whom it may concern.. .....April 19, 1916

Apr. 20, 1916—E FORTY-THIRD AVE 292.6 N Fulton N 27.6x120. G Wolfenden to whom it may concern.. .....April 19, 1916

Apr. 20, 1916—E FORTY-THIRD AVE 265 N Fulton N 27.6x120. G Wolfenden to whom it may concern..... .....April 19, 1916

Apr. 21, 1916—NW VALLEJO AND Divisadero 68x137-6. Marie A Musto to Trevia & Pasqualetti.... .....April 15, 1916

Apr. 21, 1916—SE GEARY & LEAVenworth S 44xE 83-6. Gerard Invst Co to whom it may concern..... .....April 21, 1916

Apr. 21, 1916—NW POST & STOCKton. The Pacific Union Club to W D Henderson.....Apr. 20, 1916

Apr. 21, 1916—W GUERRERO 145 S 14th 25x131-9. Frank and Mary Stafford to John J Binet Co..... .....April 16, 1916

Apr. 21, 1916—NW COLUMBUS AVE and Lombard N 147-11⅛ W 72-6¾ S 113-8⅛ E 167-2½. Edward Cerutti to Trevia & Pasqualetti, April 15; Same to same.April 15, 1916

Apr. 22, 1916—LOT 6 BLK 24, Crocker Amazon Tract. Oliver Evans to whom it may concern..Apr. 19, 1916

Apr 24, 1916—N CALIFORNIA 34-4½ W Buchanan W 40xN 132-6. Helen B Detrick or Bowie to Charles E Urfer.....April 22, 1916

Apr. 24, 1916—N CABRILLO 95 from NE 13th Ave and N Cabrillo N 90x E 27-6. Margaretha J Koenig to whom it may concern..Apr. 21, 1916

Apr. 24, 1916—NW PARIS 250 SW Brazil Ave SW 25xNW 100 Blk 12, Excel Hd Ass'n. Ambrose B Frank to whom it may concern..Apr. 22, '16

Apr. 24, 1916—N WASHINGTON 137-6 E Laguna E 137-6x255-4½. Mary Louise Phelan to Butte Eng & Elec Co.....Apr. 21, 1916

Apr. 24, 1916—W EIGHTEENTH AV 75 N Balboa N 25xW 82-6. Mrs A Otten to whom it may concern... .....April 13, 1916

Apr. 24, 1916—W SEVENTEENTH Ave 335-6 N Cabrillo N 44-4 W 120 S 45-8 E 120. N J Nelson to whom it may concern.....Apr. 22, 1916

Apr. 24, 1916—W MISSION 190-9 N 25th N 25xW 117-6. Annie M Schulz to Michael Brueck, Henry Kunst and Kiernan & O'Brien..... .....April 22, 1916

Apr. 24, 1916—N BEAVER 200 E Castro. Aaron D, Flora V, Carrie and L L Lobree to E A F Carson.. .....April 24, 1916

Apr. 24, 1916—LOTS 19 AND 20 Ducas Sub Lots 5, 6, 11 and 12 Blk 26, West End Map No. 1. C S Allred to whom it may concern..Apr. 24, 1916

Apr. 25, 1916—S ½ LOT 16; all Lot 17 Blk 4, Crocker Amazon Tract. A Orlandi to whom it may concern .....Apr. 22, 1916

Apr. 25, 1916—E SEVENTEENTH Ave 100 N Balboa N 25xE 120. Michael Costello and Bryon Feerick to whom it may concern.Apr. 21, 1916

Apr. 25, 1916—W FORTIETH AVE 275 S Lincoln Way (H) S 25xW 120. John J Bell to whom it may concerning .....Apr. 24, 1916

Apr. 25, 1916—W NOE 76-6 N 21st 25 x60. Albin M Samuelson to Henning Olson.....April 1, 1916

Apr. 25, 1916—NW DOLORES AND Army N 51-6xW 84. Wilhelmina Broughman O'Connel to Einar Petersen.....April —, 1916

Apr. 26, 1916—NE HARRIET; Nos. 331-345 Harriet. E W Lick to Sjogren Bros.....April 22, 1916

Apr. 26, 1916—S OCEAN AVE 30-5½ W **Cayauga,** Lot 22 Blk 17-B **Allred Tct.** Watson A Titus to whom it may concern.....Apr. 26, 1916

Apr. 26, 1916—COMG AT A PT DIST SW 103.70 measured along said line from NE Cor. of Blk 33 West End Map No. 1 th NW at r a to said Delano Ave 78 SW 25 SE 78 NE 25. Axel R Larson to whom it may cern.....Apr. 24, 1916

Apr. 27, 1916—E ELEVENTH AVE 250 S Geary 25x120. Charles Pedersen to Charles Pedersen.Apr. 27, 1916

Apr. 27, 1916—E TWENTY-FIFTH AV 100 N California N 25xE 120. W H Sale to Leigh & Schultz..Apr. 22, 1916

Apr. 27, 1916—S REGENT 300 E San Jose Ave Lot 17 Blk "B." John Knudson to whom it may concern .....April 26, 1916

Apr. 28, 1916—W THIRTY-NINTH AV 100 S Clement S 30xW 120; W 39th Ave 160 S Clement S 30x120; E 40th Ave 100 S Clement S 30xE 120; E 40th Ave 160 S Clement S 30xE 120. Pockman & Co to whom it may concern.....April 28, 1916

Apr. 28, 1916—E FORTY-FIRST AVE 173 N Balboa N 25xE 120. Theodor Schulz to whom it may concern... .....April 28, 1916

Apr. 28, 1916—SW BUSH & PIERCE W 126xS 100. Alice Cook Swan and Inez Cook Noble to J D Hannah.... .....April 24, 1916

Apr. 28, 1916—E HYDE 87-6 S Bush S 50xE 87-6. Clyde S Payne to whom it may concern..Apr. 27, 1916

Apr. 28, 1916—W EIGHTEENTH AVE 100 S Balboa S 25x120. Karl H Holmgren to whom it may concern .....April 28, 1916

Apr. 28, 1916—SW SCOTT & CHESTnut. **Etel** Stern to W S Grant..... .....April. 25, 1916

Apr. 28, 1916—NO. 1915 PIERCE. A L Brunner to McGlumphy & Agee.... .....April 27, 1916

Apr. 29, 1916—W BAKER 87-6 S Filbert S 25xW 87-6. Wm W Rednall to whom it may concern..Apr. 29, '16

Apr. 29, 1916—W BAKER 37-6 S Filbert S 25xW 87-6. Wm W Rednall to whom it may concern..Apr. 29, '16

Apr. 29, 1916—E TWENTY-SIXTH Ave 150 N Balboa 25x120; No. 670 26th Ave. Gertrude and V G Raymoure to J H Phillips....Apr. 26, 1916

Apr. 29, 1916—COMG 108 S CASELLI Ave and 439-8; 339-8; 364-8; 414-8; and 389-8 W Douglass W 25xS 92, etc, H E and T MacArthur to whom it may concern..... April 17, 1916

Apr. 29, 1916—COMG 108 S Casselli Ave and 464-8 W Douglass 26-2x 92,etc. H E and T W McArthur to whom it may concern...Apr. 26, 1916

May 1, 1916—LOT 12 BLK 2818 Forest Hill Court. Conservative Bldg & Invst Co to whom it may concern.. .....May 1, 1916

May 1, 1916—NW POLK AND BUSH. Estate of Sarah Fry to Pacific Wall Bed Co.....April 21, 1916

May 1, 1916—E NINETEENTH AVE 25 N Balboa N 25xE 82-6. Martin and Hans Nelson to whom it may concern.....May 1, 1916

May 1, 1916—S COLLEGE AVE 100 E Marcelli E 25x120. Joseph Frederick and Ella Schuster to Lyon & Hoag.....May 1, 1916

May 1, 1916—E TWENTY-SECOND Ave 90 S California S 50xE 120. Grace Yager to W W Yager..... .....May 1, 1916

May 1, 1916—E FOLSOM 77 S 13th. T F Kiernan or Thos F Kiernan to Kiernan & O'Brien, Inc..Apr. 29, 1916

May 1, 1916—SE HYDE AND BROADway E 87-6xS 37-6. James Cantley to E J Montgomery.....May 1, 1916

May 3, 1916—W COLE 100 S Carl S 75 xW 100. Lange Invst Co to Cameron & Disston.....May 3, 1916

May 3, 1916—SW JONES & JACKSON 37-6x82-6. W S and Annie Brockle to C J Frisk & Co.....Apr. 22, 1916

May 3, 1916—SE FIFTEENTH AVE and Clement. Thos Kelly to whom it may concern.....May 3, 1916

May 3, 1916—LEASEHOLD NW Geary and Hyde N 87-6xW 57-6. Standard Securities Co to Wm Martin..... .....May 1, 1916

May 3, 1916—COMG 175 NW Stevenson and SW 5th th SW 40xNW 65. Hale Bros by Macdonald & Kahn to Nilson & Arras.....April 26, 1916

May 3, 1916—NW NAPLES 150 NE France Ave NE 25xNW 100; Ptn Lot 6 Blk 44, Excl Hd. Attilio Cirimele to L C Smith.....April 28, 1916

May 3, 1916—W TWENTY-FOURTH Ave 100 N Anza N 25xW 120. W H Walthall to whom it may concern .....May 3, 1916

May 4, 1916—W ORD AVE 252 N 18th N 28xW 136. Jane Greenwood to Geo G Moren.....Completed

May 4, 1916—W ELEVENTH AVE 125 N Balboa N 25x120. A T Morris to whom it may concern....May 3, 1916

May 4, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to Mangrum & Otter .....April 28, 1916

May 4, 1916—W NINTH AVE 250 N Cabrillo N 25x120. A T Morris to whom it may concern..May 3, 1916

May 4, 1916—W NINTH AVE 275 N Cabrillo N 25x120. A T Morris to whom it may concern..May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 171-8 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 125 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 148-4 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 171-8 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—N TWENTY-SECOND 105 W Valencia W 22-6xN 114. The Planz Co, Inc to John E Beck.... .....April 28, 1916

May 5, 1916—E MASONIC AVE 50 S Fulton 25x90. John W Williams to whom it may concern....May 5, 1916

May 5, 1916—W NINETEENTH AVE 225 N Fulton N 25xW 120. Howard T Black to Merriman & Capell.... .....May 4, 1916

May 5, 1916—NE GEARY AND NINTH Ave E 32-6xN 100. D J or Daniel J O'Hara to whom it may concern.. .....May 4, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

Apr. 22, 1916—E SIXTH AND JESSIE SE 80xNE 57. Moller & Sons vs Mary S Barker and Emma E Bahneman $65

Apr. 22, 1916—SE BRYANT AND 20th E 76xS 27. Beach Elec Co vs John O McAnliffe and E C Gaspard & Co $115

Apr. 22, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Wilson Bros & Co, $998.25; Schwarz & Gottlieb, $234 vs Mrs Caroline Green and Jas P Fletcher.....

Apr. 22, 1916—E TWENTY-SECOND Ave 100 N Clement N 50xE 120. Reinhart Lumber & Planing Mill Co vs Axel Johnson and — Johnson (as Johnson & Johnson).....$637.57

Apr. 24, 1916—N STAPLES AVE 250 E Detroit Ave E 25x112-6 Lot 22 Blk 34, Sunnyside. Walter E Hansen vs J H and Kate Plattner..$279

Apr. 24, 1916—S GEARY 31-1½ W Kearny S 28-1⅛ SW 38-4½ N 50-6¼. California Metal Works vs Frank W Chandler, J O Ford, H P Flannery, Lincoln M Kibbe and Marie Adam Musto.....$691.85

Apr. 24, 1916—W TWENTY-FOURTH Ave 175 S Clement S 25xW 120. George H Tay Co vs Joseph Deasy and Alfred Johnson.....$68.46

Apr. 26, 1916—E FORTY-FIFTH AVE 125 N Cabrillo N 50xE 120. Paul Savy vs Co-Operative Bldg Society and Sterling Realty Co.....$112.45

Apr. 27, 1916—N PAGE 165-7½ W Central Ave N 137-6xW 40. E K Pearson vs Carrie Green and J P Fletcher $210

Apr. 27, 1916—W DIAMOND 44 S 26th S 23xW 75; No. 1114 Diamond. The Greater City Lumber Co vs J McCarthy and W F Connolly.....$12.65

Apr. 28, 1916—SE FIFTEENTH AND Dolores S 29xE 100. John and Louis Schmidt vs L A Hinson & Christoph Weinrank $105

Apr. 29, 1916—FIFTEENTH AND Dolores. V Rosenbaum vs L A Hinson and Christoph Weinrank....$215

Apr. 29, 1916—N PARNASSUS AVE 77.5 W Willard 50x94½. David Gibbs vs Mary Carson..... ....$97.50

May 1, 1916—LOT 4 BLK 2840 Forest Hill Court E line of Pacheco S of Alton Ave. Spring Constr Co vs E M Reagh and Newell-Murdock Co $205.37

May 3, 1916—S FILBERT 67-6 W Steiner W 80 S 137-6 E 65 NE 98-3¾ to a pt 69-9 W Steiner and 40 S Filbert E 2-3 and N 40. Livermore Fire Brick Co vs Louise D and J C Brickell, Murray Vandall, John Brickell Co, L M Reagh and Henry A Lehfeldt $70.08

May 5, 1916—N CARL 225 W Clayton W 25xN 137-6. Thomas Skelly vs Mrs E M M Norton and L A Kern.$121

May 5, 1916—S NINETEENTH 225 W Guerrero 25x114. Greenback Plastering Co, Inc vs Michael and Annie B Cooper and John Burns.....$69

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1062	Howkins	Howkins	3000
1063	Howkins	Howkins	3000
1064	Bischoff	Bischoff	2000
1065	Same	Same	2000
1066	Same	Same	2000
1067	Same	Same	2000
1068	Same	Same	2000
1069	Duval	Duval	400
1070	Marenco	Valente	400
1071	Allen	Allen	2250
1072	Same	Same	2250
1073	Same	Same	2250
1074	Bischoff	Bischoff	2000
1075	Shredded Wheat	Pac Ext	4600
1084	Bonne	Legault	400
1085	Lough	Lough	900
1086	Coward	Coward	2500
1087	Kinney	Kinney	2500
1088	Carter	Thursby	2000
1089	Dice	Dice	1600
1090	Dice	Dice	1500
1092	Sims	Sims	3000
1093	Fedt	Fedt	2100
1094	Pacific Gas	Federal Sign	1000
1095	Weiner	Muller	500
1096	Yager	Schuldt	800
1097	Nethkin	Nethkin	900
1100	Thompson	Rubenstein	1000
1101	Strang	Strang	2000
1102	McLead	Diggs	4550
1103	Haley	Banning	450
1104	Pickrell	Pickrell	1500
1105	Campomenosi	Owner	400
1106	Carlson	Carlson	1800
1107	Talbot	Landy	2000
1109	Martin	Schwartz	2298
1110	Dillen	Brown	1939

DWELLING

(1062) N COURTLAND AVE 300 E High, Oakland. Two-story 7-room dwelling.

Owner.....A. Howkins, 4424 Pampas Ave., Oakland.

Architect ...None.

Day's work. COST, $3000

DWELLING

(1063) N COURTLAND AVE 250 E High, Oakland. Two-story 7-room dwelling.

Owner.....A. Howkins, 4424 Pampas Ave., Oakland.

Architect ...None.

Day's work. COST, $3000

DWELLING

(1064) N SIXTY-SECOND 312½ E Hillegass, Oakland. One-story 6-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

DWELLING

(1065) N SIXTY-SECOND 275 E Hillegass, Oakland. One-story 6-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

DWELLING

(1066) N SIXTY-SECOND 237½ E Hillegass, Oakland. One-story six-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

DWELLING

(1067) N SIXTY-SECOND 200 E Hillegass, Oakland. One-story 6-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

DWELLING

(1068) N SIXTY-SECOND 162½ E Hillegass, Oakland. One-story six-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

RESHINGLE

(1069) NO. 546 HOBART, Oakland Reshingle.

Owner.....Oliver Duval, Dalziel Bldg., Bldg., Oakland.

Architect ...None.

Contractor..Oliver Duval & Son, Dalziel Bldg., Oakland.

COST, $400

ADDITION

(1070) NO. 4904 BROADWAY, Oakland Addition.

Owner.....G. Marenco, Premises.

Architect ...None.

Contractor..M. E. Valente, 5882 Vallejo, Oakland.

COST, $400

DWELLING

(1071) E ORIN DRIVE 201 N 24th, Oakland. One-story 5-room dwelling.

Owner.....L. E. Allen, 2425 Orin Drive Oakland.

Architect ...None.

Day's work. COST, $2250

DWELLING

(1072) W ORIN DRIVE 140 N 24th, Oakland. One-story 5-room dwelling.

Owner.....L. E. Allen, 2425 Orin Drive Oakland.

Architect ...None.

Day's work. COST, $2250

DWELLING

(1073) E ORIN DRIVE 125 N 24th Oakland. One-story 5-room dwelling.

Owner.....L. E. Allen, 2425 Orin Drive Oakland.

Architect ...None.

Day's work. COST, $2250

DWELLING

(1074) N SIXTY-SECOND 125 E Hillegass, Oakland. One-story six-room dwelling.

Owner.....John A. Bischoff, 6045 Harwood Ave., Oakland.

Architect ...None.

Day's work. COST, $2000

SPRINKLER SYSTEM

(1075) LOTS 8 TO 24 INCLU and Ptn Lots 4, 5, 6, 7 and 25 to 32 inclu., R. J. McMullen's Sbdvn Blk 576, Oakland. All work for sprinkler system using Grinnell heads for factory.

Owner.....Pacific Coast Shredded Wheat Company.

Architect ...Louis Hobart & Engineer J. S. Bogart, Crocker Bldg., San Francisco.

Contractor..Pacific Fire Extinguisher Co., 507 Montgomery, S. F.

Filed May 1, '16. Dated Mar. 16, '16.

Accepted 75%

Usual 35 days..... 25%

TOTAL COST, $4600

Bond, $2300. Sureties, Burt L. and W. S. Davis. Limit, 30 days after machinery installed. Forfeit, $10. Plans and specifications filed.

ALTERATIONS

(1084) NO. 2814 ADELINE, Oakland. Alterations.

Owner.....A. Bonne, Premises.

Architect ...None.

Contractor..O. Legault, 3136 West, Oakland.

COST, $400

DWELLING

(1085) SE THIRTY-EIGHTH AVE & Kansas, Oakland. One-story 3-room dwelling.

Owner.....Chas. H. Lough, 1846 13th Ave., Oakland.
Architect...None.
Day's work. COST, $900

DWELLING
(1086) NW ELSIE AVE AND CHABOT Road, Oakland. Two-story 8-room dwelling.
Owner.....J. Coward, 6081 Claremont Ave., Oakland.
Architect...None.
Day's work. COST, $3500

DWELLING
(1087) W EL CENTRO 220 N Greenwood Ave., Oakland. One-story 7-room dwelling.
Owner.....C. H. Kinney, 5788 Vicente, Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(1088) E ORDWAY 193 S Marin, Albany. One-story 5-room dwelling.
Owner.....H. B. Carter.
Architect...None.
Contractor..H. G. Thurshy, 1526 157th Ave., Oakland.
COST, $2000

DWELLING
(1089) E MAGEE AVE 217 N Hopkins, Oakland. One-story 5-room dwelling.
Owner.....B. A. Dice, 429 13th, Okd.
Architect...None.
Contractor..J. M. Dice, 429 13th, Okd.
COST, $1600

DWELLING
(1090) E MAGEE AVE 147 N Hopkins, Oakland. One-story 5-room dwelling.
Owner.....B. A. Dice, 429 13th, Okd.
Architect...None.
Contractor..J. M. Dice, 429 13th, Okd.
COST, $1600

DWELLING
(1092) E FAIRFAX AVE 400 N Ygnacio, Oakland. One-story 7-room dwelling.
Owner.....Wm. H. Sims, 1926 64th Ave., Oakland.
Architect...None.
Day's work. COST, $3000

DWELLING
(1093) E JAMES AVE 153 S Clifton, Oakland. One-story 5-room dwelling
Owner.....Louis Fedt, 528 25th, Okd.
Architect...None.
Contractor..Fedt Bros., 528 25th, Okd.
COST, $2100

ELECTRIC SIGN
(1094) NO. 1432 BROADWAY, Oakland. Electric sign.
Owner.....Pacific Gas & Electric Co., 13th and Clay, Oakland.
Architect...None.
Contractor..Federal Sign System Elec., 618 Mission, San Francisco.
COST, $1000

ADDITION
(1095) NW NINETY-SIXTH AVE AND Almond, Oakland. Addition.
Owner.....E. Wellner, Premises.
Architect...None.
Contractor..C. F. Muller, 81 28th, Okd.
COST, $500

ADDITION
(1096) NOS. 3501-09 CHESTNUT, Oakland. Two-story addition.
Owner.....Yager Sheet Metal Works, Premises.
Architect...None.
Contractor..P. N. Schmidt, 565 16th, Oakland. COST, $800

DWELLING
(1097) NE THIRTY-NINTH AVE AND Kanning, Oakland. One-story four-room dwelling.
Owner.....H. Nethkin, 3544 Porter, Oakland.
Architect...None.
Day's work. COST, $900

ALTERATIONS
(1100) N NINTH 100 E Oak, Oakland. Alterations.
Owner.....E. G. Thompson, 310 Athol Ave., Oakland.
Architect...None.
Contractor..K. Rubenstein, 668 6th, Okd
COST, $1000

DWELLING
(1101) W TWENTY-THIRD AVE 90 N E-28th, Oakland. One-story 5-room dwelling.
Owner.....E. H. Strang, 3741 Elston Ave., Oakland.
Architect...None.
Day's work. COST, $2000

DWELLING
(1102) E CAPELL 40 S Prospect Ave., Oakland. One and one-half-story 7-room dwelling.
Owner.....W. A. McLeod, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Contractor..M. I. Diggs.
COST, $4550

GARAGE
(1103) E BELGRAVE PLACE 150 N Napa, Oakland. Two-story two-room garage.
Owner.....Seibert S. Haley, 5421 Carlton, Oakland.
Architect...None.
Contractor..Banning & Stewart, 5215 Broadway, Oakland.
COST, $450

DWELLING
(1104) SW NEVADA AND WALTER Ave., Oakland. One-story 5-room dwelling.
Owner.....J. H. Pickrell, 1218 97th Ave., Oakland.
Architect...None.
Day's work. COST, $1500

TANK FRAME
(1105) NO. 430 CLIFTON, Oakland. Tank frame.
Owner.....F. Campomenosi, 5174 Miles Ave., Oakland.
Architect...None.
Contractor..E. Campomenosi, 5174 Miles Ave., Oakland.
COST, $400

DWELLING
(1106) W 106TH AVE 167 N Graffian, Oakland. One-story 5-room dwelling
Owner.....J. A. Carlson, 31 Rivoli, San Francisco.
Architect...None.
Contractor..John Carlson, 31 Rivoli, San Francisco.
COST, $1800

DWELLING
(1107) NW CALIFORNIA & PATTERson Ave., Oakland. One-story 5-room dwelling
Owner.....W. Talbot, San Francisco.
Architect...None.
Contractor..A. L. and J. E. Lundy, 100 Tunnel, Alameda.
COST, $2000

DWELLING
(1109) WASHINGTON TP. All work except electric wiring for one-story frame dwelling.
Owner.....J. R. Martin, Centerville.
Architect...M. White, Centerville.
Contractor..C. S. Schwartz, Hayward.
Filed May 5, '16. Daaed May 1, '16.
May 20 ..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2298
Bond, none. Limit, as soon as possible
Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1110) PTN TRACT "B" Map Van Hoosear Tct Castro Valley, Eden Tp. All work for one-story 4-room and 2 sleeping porches frame dwelling.
Owner.....S. J. Tate and E. W. Dillen, 2306 Waverly, Oakland.
Architect...None.
Contractor..A. V. Brown, Oakland.
Filed May 5, '16. Dated May 5, '16.
Frame up $484.00
Brown coated 484.00
Completed 484.00
Usual 35 days..... 487.75
TOTAL COST, $1939.75
Bond, none. Limit, 40 days after May 8. Forfeit, none. Plans and specifications filed.

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1082	Andre	Andre	800
1083	Olmstaett	Kollmer	600
1091	Packard	Packard	3500
1098	Wright	Stubbe	4000
1099	Hall Scott	Owner	2500
1108	Long	Mason	2000

DWELLING
(1082) N FOLGER 108 W Seventh, Berkeley. One-story 5-room dwelling.
Owner.....T. J. Andre, 721 Folger Ave., Berkeley.
Architect...None.
Day's work. COST, $800

ALTERATIONS
(1083) NO. 3033 DANA, Berkeley. Alterations.
Owner.....Mrs. H. N. Olmstaett, Prem.
Architect...None.
Contractor..Jacob Kollmer, 2813 Stuart Berkeley. COST, $600

DWELLING
(1091) N SAN PEDRO 170 W The Alameda, Berkeley. Two-story 7-room dwelling.
Owner.....Walter H. Packard, Syndicate Bldg., Oakland.
Architect...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $3500

DWELLING
(1098) E THE ALAMEDA 150 N San Pedro, Berkeley. Two-story dwlg.
Owner.....P. J. Wright.
Architect...None.
Contractor..R. E. Stubbe, 1756 Broadway, Oakland.
COST, $4000

WAREHOUSE
(1099) NO. 735 SNYDER, Berkeley. One-story warehouse.
Owner.....Hall Scott Motor Car Co., Premises.
Architect...Edw. T. Foulkes, Crocker Bldg., San Francisco.
Day's work. COST, $2500

DWELLING
(1108) E JOSEPH 150 N Hopkins, Berkeley. One-story 6-room dwelling.
Owner.....Roy O. Long, 2215 Atherton Berkeley.
Architect...None.
Contractor..Mason-McDuffie Co., Shattuck and Addison, Bkly.
COST, $2000

Building Contracts Awarded

Alameda

No.	Owner	Contractor	Amt.
1076	Kirby	Fish	400
1077	Noble	Noble	2000
1078	Lubben	Kopf	3180
1079	Cole	Kopf	3000
1080	Roth	Roth	1800
1081	Encinal Yacht	Strang	900

ALTERATIONS
(1076) NO. 2028 SAN JOSE AVE., Alameda. Alterations.
Owner.....Mrs. J. P. Kirby, 2149 Central Ave., Alameda.
Architect...None.
Contractor..M. Fish, 1420 Fountain, Alameda.
COST, $400

DWELLING
(1077) NO. 2522 SAN JOSE AVE., Alameda. One-story 5-room dwelling.
Owner.....Geo. H. Noble, 2220 Central Ave., Alameda.
Architect...None.
Day's work. COST, $2000

FRAME DWELLING
(1078) N PACIFIC AVE 337.50 W Webster W 75.50xN 145, Alameda. All work except painting and cement walks for one-story and attic frame dwelling.
Owner.....John G. Lubben, 1710 Webster, Alameda.
Architect...Wm. R. Hamma.
Contractor..B. F. Kopf, 1015 82nd Ave., Oakland.
Filed May 3, '16. Dated May 1, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $3180
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

DWELLING
(1079) BAYO VISTA AVE, Lot 16 Blk "D" Waterside Terrace, Alameda. One and one-half-story 7-room dwlg.
Owner.....M. T. Cole, Syndicate Bldg., Oakland.
Architect...None.
Contractor..B. F. Kopf, 1015 82nd Ave., Oakland.
COST, $3000

DWELLING
(1080) NO. 2261 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Conrad Roth, 2117 Pacific Ave., Alameda.
Architect...None.
Day's work. COST, $1800

ALTERATIONS
(1081) S END GRAND ST., Alameda. Alterations.
Owner.....Encinal Yacht Club, Prem.
Architect...None.
Contractor..V. N. Strang, 805 Pacific Ave., Alameda.
COST, $900

ALAMEDA COUNTY BUILDING TOTALS.

OAKLAND

Building April Summary.

Classification of Bldgs.	No. of Permits	Costs
1-story dwellings.....	70	$116,735.00
1½-story dwelling.....	7	16,512.00
2-story dwelling.....	17	76,900.00
2-story flats.....	3	13,750.00
2-st apartments.....	1	6,000.00
3-story apartments.....	3	37,750.00
2-st store & dwelling..	1	5,000.00
1-story stores.....	6	14,575.00
2-story waste mill.....	1	2,000.00
4-story brick apartments, added cost....		15,000.00
Class "C" theatre and stores	1	96,000.00
8-story Class "A" store and loft building....	1	180,000.00
1-story brick garage...	2	38,000.00
1-story reinforced concrete garage.....	1	750.00
Steel and corrugated iron machine shop...	1	4,530.00
Steel and corrugated round house	1	1,950.00
Green houses.....	3	1,675.00
Garages, shed and stables	56	10,077.00
Tank frames.....	1	65.00
Electric signs.....	9	1,815.00
Additions	31	29,861.00
Alterations & repairs..	84	37,534.00
Total	300	$706,479.00

SUMMARY.

New construction.....	216	$668,945.00
Alterations & repairs..	84	37,534.00
Total	300	$706,479.00
April, 1915.....	294	530,302.75
Increase over 1915...	6	$176,176.25

Total for January, February, March and April, 1916: 1121 permits; cost, $2,203,903.00.

Total for January, February, March and April, 1915: 1029 permits; cost, $1,651,469.25.

Increase over 1915: 92 permits; cost, $652,433.75.

BERKELEY.

April, 1916.....$143,780
April, 1915..... 129,000
Increase .....$ 14,780

Total for Jan., Feb., Mar. and April, 1916: $578,730.

Total for Jan., Feb., Mar., and April, 1915: $433,800.

Increase over 1915: $144,930.

ALAMEDA.

April, 1916.....$48,698
April, 1915..... 28,435
Increase over 1915.....$20,263

Total for Jan., Feb., Mar., and April, 1916: $238,665.

Total for Jan., Feb., Mar., and April, 1915: $103,906.

Increase over 1915: $134,759.

The April building totals for Richmond, Contra Costa County, amounted to $45,740 against $7527 for April last year.

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

May 4, 1916—PTN LOTS 22 AND 23, Geo Austins Sbdvn Peralta Heights being No. 474 Wesley Ave, Oakland. Herberts T Eaton as to improvemente on leased property.....

ARCHITECT'S CERTIFICATE.

May 1, 1916—JAMES J. DONNELLAN has filed his certificate of architecture for Alameda County.

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 22, 1916—PTN LOTS 1 AND 2 Blk 1 Map Amended Map Hopkins Terrace No. 4, Bkly. Mary F Underhill to Jacob House..Apr. 21, 1916

Apr. 22, 1916—LOT 9 BLK 6 Berkeley Heights Tract, Bkly. C E Sinclair to whom it may concern.Apr. 22, 1916

Apr. 24, 1916—LOT 19 BLK "D" Map Waterside Terrace, Ala. Mark T Cole to whom it may concern.....April 20, 1916

Apr. 24, 1916—LOT 6 BLK 3 Graves and Taylor Tract, Bkly. Louis O Hansson to L O Hanson.Apr. 21, 1916

Apr. 24, 1916—PTN LOT 17 Map Craig Ppty, Piedmont. Walter H Creighton to whom it may concern.....April 22, 1916

Apr. 25, 1916—LOTS 8 TO 24, Incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl Map R J McMullens Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Stobbe & Romak, Apr 21st; Otis Elevator Co.....Apr. 11, 1916

Apr. 28, 1916—W MARKET 40 SW 40th SW 75 NW 103.70 NE 15 SE 3.79 NE 60 SE 99.97, Okd. C A Luedeking to J W Jespersen and A C Dippo .....Apr. 15, 1916

Apr. 28, 1916—LOT 14 BLK 2, Thousand Oaks, Oakland Tp. Charles W Brock to Butterfield & Barker.....April 27, 1916

Apr. 29, 1916—LOT 11 BLK 5 Map Thousand Oaks, Bkly. Mark W Anthony to whom it may concern .....April 27, 1916

May 1, 1916—LOTS 8 TO 24 Incl and ptn Lots 4, 5, 6, 7 and 25 to 32 inclu Map R. J. McMullen's Sbdvn Blk 576 Okd. Pacific Coast Shredded Wheat Co to Pittsburgh Des Moines Steel Co.....March 18, 1916

May 3, 1916—LOT 24 BLK 2 Map Dwight Way Terrace, Bkly. O M and Virginia M and H G Patrick to whom it may concern..Apr. 24, 1916

May 3, 1916—LOT 52 BLK "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—NW BROADWAY 467.35 SW Ada SW 37½xW 100, Okd. J C O'Connor to whom it may concern .....April 26, 1916.

May 3, 1916—NW BROADWAY 504.85 SW Ada SW 37.50xNW 100, Okd. J C O'Connor to whom it may concern .....April 26, 1916

May 3, 1916—NE 22½ LOT 17 and SW 15 Lot 18 Blk "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern..Apr. 26, '16

May 3, 1916—LOT 16 and S 7½ Lot

15 Blk "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—LOT 75 and S 15 Lot 76, Blk "A" Map Broadway Terrace Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—S 5 LOT 78 All Lot 77 and N 10 Lot 76 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—S 20 LOT 79 and N 20 Lot 78 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—S 10 LOT 81, all Lot 80 and N 5 Lot 79 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.Apr. 26, 1916

May 3, 1916—LOT 82 and N 15 Lot 81 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916

May 3, 1916—NO. 324 CORONADO, being Lot 6 Hemphill Court, Oakland. Isaac Adams to Oscar E Nelson (Notice given by Nelson).Mar. 15, '16

May 4, 1916—LOTS 8 TO 24 INCL and Ptn Lots 4, 5, 6, 7 and 25 to 32, incl Map R. J. McMullen's Sbdvn Blk 576, Okd. Pacific Shredded Wheat Co to Clinton Constr Co..Apr. 25, 1916

May 5, 1916—LOT 4 BLK "H" Map Vernon Park, Okd. Joseph Bruno to M C Vaughn.....April 29, 1916

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT

Apr. 28, 1916—LOTS 33, 34, 35, 36, 37 and 38 Blk "C" Fruitvale Blvd Tct., Okd. Sunset Lumber Co vs George A Lee and Charles L Lee.....$201.55

Apr. 29, 1916—NE SIXTEENTH AND Wood E 50xN 115-7½. Sunset Lumber Co vs Jennie P Lackie and Joseph B Coryell.....$98.21

Apr. 29, 1916—LOT 5 BLK "H" Map East Piedmont Heights Ext, Okd. R E Stubbe vs Samuel J Silva.$824.79

May 3, 1916—N 107TH AVE 200 W Voltaire Ave W 40xN 101.25, Okd. Sunset Lumber Co vs W M and Blanche Martin and L W Anderson $96.53

May 5, 1916—E SHATTUCK AVE 138.50 S University Ave S 84.6 E 95 N 84 2½-12 W 90 8-12, Bkly. G H Burchell vs First Savings Bank or Oakland, R W Littlefield and T D Sexton $254

May 5, 1916—NE NINTH AND PINE E 47-6xN 135, Okd. Tony Rago vs Adaline Dennen $109

BUILDING CONTRACTS

SANTA CLARA COUNTY.

ART GALLERY

STANFORD UNIVERSITY CAMPUS, Palo Alto. Steel work for one-story brick and concrete art gallery.

Owner.. ...Board of Trustees, Stanford University.

Architect .. Bakewell & Brown, 251 Kearny, San Francisco.

Contractor..Ralston Iron Works, 20th and Indiana, S. F.

Filed Apr. 28, '16. Dated Apr. 24, '16.

On 15th of each month..... 75%

Usual 35 days..... 25%

TOTAL COST, $6000

Bond, $3000. Surety, Massachusetts Bonding & Insurance Co. Limit 14 days after notice. Forfeit, $10 or $20. Plans and specifications filed.

ROOFING, TILE AND FLASHING ON above.

Contractor..Gladding, McBean & Co., Crocker Bldg., S. F.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $3045

Bond, none. Limit, 14 days after roof is ready. Forfeit, $5 or $10. Plans and specifications filed.

SHEET METAL WORK ON ABOVE.

Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.

Filed Apr. 28, '16. Dated ——.

Payments same as above.....

TOTAL COST, $2236

Bond, $1118. Surety, United States Fidelity & Guaranty Co. Limit, 20 days after starting. Forfeit, $5 or $10.Plans and specifications filed.

STONE WORK ON ABOVE.

Contractor..McGilvray Stone Co., 7th & Townsend, San Francisco.

Filed Apr. 28, '16. Dated Apr. 21, '16.

Payments same as above.....

TOTAL COST, $29,370

Bond, $14,685. Surety, California Casualty Co. Limit, 60 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

EXCAVATING AND CONCRETE WORK on above.

Contractor..Collman & Duncan, Sharon Bldg., San Francisco.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $11,972

Bond, $5986. Surety, New Amsterdam Casualty Co. Limit, 20 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

STEAM HEATING AND VENTILATING on above.

Contractor..Scott Co., 243 Minna, S. F.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $995

Bond, $497.50. Surety, New Amsterdam Casualty Co. Limit, 20 days after notification. Forfeit, $5 or $10. Plans and specifications filed.

BRICK WORK ON ABOVE.

Contractor..Eri H. Richardson, Hearst Bldg., San Francisco.

Filed Apr. 28, '16. Dated Apr. 25, '16.

Payments same as above.....

TOTAL COST, $7685

Bond, $3842. Surety, Hartford Accident & Indemnity Co. Limit, 60 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

CARPENTER, MILL WORK, GLAZING on above.

Contractor..L. & E. Emanuel, 144 12th, San Francisco.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $5545

Bond, $2772.50. Surety, New Amsterdam Casualty Co. Limit, 30 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

ELECTRIC WORK ON ABOVE.

Contractor..McFell Elec. Co., 223 Minna, San Francisco.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $302

Bond, $1510. Surety, Guardian Casualty & Guaranty Co. Limit, 30 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

ORNAMENTAL IRON WORK ON above.

Contractor..C. J. Hillard Co., 19th and Minnesota, S. F.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $14[illegible]

Bond, none. Limit, 10 days after notification. Forfeit, $2 or $5. Plans and specifications filed.

PAINTING & FINISHING ON ABOVE.

Contractor..John Gordon (as Tozer Co.) 228 Grant Ave., S. F.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $878

Bond, $439. Surety, Massachusetts Bonding & Insurance Co. Limit, 20 days after notification. Forfeit, $5 or $10. Plans and specifications filed.

FURRING, LATHING AND PLASTERING on above.

Contractor..Lyden & Bickel, 269 Fell, San Francisco.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $5215

Bond, $2607.50. Surety, Guardian Casualty & Guaranty Co. Limit, 30 days after notification. Forfeit, $10 or $20. Plans and specifications filed.

PLUMBING ON ABOVE.

Contractor..James H. Pinkerton, 2266 Fulton, San Francisco.

Filed Apr. 28, '16. Dated Apr. 24, '16.

Payments same as above.....

TOTAL COST, $732

Bond, $366. Surety, Hartford Accident & Indemnity Co. Limit, 20 days after notification. Forfeit, $5 or $10. Plans and specifications filed.

OFFICE AND FACTORY

PALO ALTO. Three-story brick office and factory building.

Owner.....Ernest Wilson Co., Palo Alto.

Architect ...Arthur S. Heineman, 831 San Fernando St., Los Angeles.

Day's work. COST, $20,000

FRAME BUNGALOW

LOT 13 BLK 1, Palm Haven Tract, San Jose. All work for one-story frame bungalow.

Owner.....Frederick Griffin.

Architect ...Frederick Griffin and Jno. A. Naismith.

Contractor..R. C. Herschback, 320 W. St. James St., San Jose.

Filed May 3, '16. Dated May 3, '16.

Frame up $658.50

Brown coat mortar on..... 658.50

Job completed 658.50

Usual 35 days..... 658.50

TOTAL COST, $2634.00

Bond, $1500. Sureties, S. H. Chase and E. V. Fuchs. Limit, 90 days after date. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

ECORDED AMOUNT
y 1, 1916—SECOND & SAN ANtonio, San Jose. Young Women's Christian Ass'n to Morrison Bros. .....April 29, 1916
r. 28, 1916—SE NINTH AND VIRginia Sts., San Jose. S G Pelton to whom it may concern...Apr. 28, 1916

LIENS FILED

SANTA CLARA COUNTY.

ECORDED AMOUNT
r. 28, 1916—LOTS 7, 11, 12 BLK 8, shdvn Blks 8 and 9 of Vestal Subdivision, San Jose. Glenwood Lumber Co vs J Mazziamotta.....$155.68

BUILDING CONTRACTS

SAN MATEO COUNTY.

RAME DWELLING
ILLBRAE, San Mateo County. One-story 6-room frame dwelling.
wner.....Henry Gibson.
rchitect...W. S. Rbodes, 3376 16th, San Francisco.
ay's work. COST, $2300

TORE AND OFFICES
URLINGAME AVE & PARK ROAD, Burlingame. All work except plumbing and sheet metal work for two-story reinforced concrete and frame store and office building.
wner.....Charles N. Kirkbride, 318 B St., San Mateo.
rchitect.. Thomas Edwards & Ernest L. Norberg, Bank Bldg., Burlingame.
ontractor..Coleman & Duncan, Sharon Bldg., San Francisco.
iled May 3, '16. Dated May 2, '16.
Concrete poured, etc..... ¼
When plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $5940
ond, $2970. Surety, New Amsterdam asualty Co. Limit, 90 days. Forfeit, 3 per day. Plans and specifications iled.

SUB-STATION
OUTH SAN FRANCISCO. All sheet metal work for sub-station.
wner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
ngineer-in-Charge...H. C. Vensano, 445 Sutter, San Francisco.
ontractor..Conlin & Roberts, 410 Natoma, San Francisco.
Filed May 3, '16. Dated Apr. 24, '16.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $1140
Bond, $570. Surety, The Aetna Accident & Liability Co. Limit, 12 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
HILLSBOROUGH. All work for frame dwelling.
Owner.....Robin Y. Hayne, Care Malley-Colline Co., 112 Market, San Francisco.
Architect...Howard & White, Lick Bldg., San Francisco.
Contractor..Collman & Duncan, Sharon Bldg., San Francisco.
Filed May 4, '16. Dated May 3, '16.
On completion 75%
Usual 35 days..... 25%
TOTAL COST, $11,763
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

SAN MATEO COUNTY.

RECORDED ACCEPTED
May 3, 1916—LOT "U" BLK 5, Burlingame Terrace, Burlingame. Geo H S Harding to C H Bessett..... .....April 25, 1916
May 3, 1916—LA HONDA, Geo. A Pope Ranch. George A Pope to F H Boring.....April 27, 1916
Apr. 29, 1916—PTN LOTS 228 AND 231 Menlo Park Villa Ass'n, Menlo Park. Henry Meyer to Weeden Bros..... .....April 26, 1916
May 4, 1916—LOT 12 BLK 11, Stanford Park near Palo Alto. Rosa Hooper Lyon to whom it may concern.....May 3, 1916

BUILDING CONTRACTS

MARIN COUNTY.

FAIRFAX, Marin County. All work for one-story frame dwelling.
Owner.....Paul Arata et al.
Architect...None.
Contractor..Agner F. Hanson.
Filed May 3, '16. Dated May 3, '16.
Frame up $500
When plastered 500
When finished 500
Usual 35 days..... 500
TOTAL COST, $2000
Bond, $1000. Sureties, Carl M. Hanson and John J. Lezzeni. Limit, forfeit, none. Plans and specifications filed.

BELVEDERE, Marin County. All work for frame garage building.
Owner.....Ferd C. Peterson.
Architect..Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..L. A. Kern, 2616 17th, S. F.
Filed Apr. 29, '16. Dated Apr. 28, '16.
Frame up $912
When completed 912
36 days after..... 608
TOTAL COST, $2432
Bond, $1216. Sureties, C. W. Mark and R. L. Kern. Limit, 10 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

FRAME APARTMENTS
MacDONALD AVE., Richmond. All work for three-story frame apartment building.
Owner.....Mr. Elsup.
Architect...Eugene K. Martin, 2192 Shattuck Ave., Berkeley.
Contractor..A. F. Eliel, 1433 Franklin, Oakland.
COST, $20,000

BANK
CROCKETT, CAL. All work for one-story and basement reinforced concrete bank building.
Owner.....Bank of Crockett.
Architect...B. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..M. Morton, 1300 Alcatraz Ave., Berkeley.
COST, $——

FRAME DWELLING
CASTRO ST., bet. 23rd and 24th Sts., Richmond. Frame dwelling.
Owner.....J. W. Grow, Richmond.
Architect...None.
Day's work. COST, $1600

FRAME RESIDENCE
LOT 9 BLK 12, Richmond Traffic Center, Richmond. Concrete, cement, carpenter, brick, electric work, etc., for One-story frame residence.
Owner.....J. F. Brooks, 124 Cottage Ave., Richmond and E. M. Tilden, 15th and Nevin Sts., Richmond (Trustees)
Architect...James T. Narbett, 701 Macdonald Ave., Richmond.
Contractor..C. O. Johnson, Richmond.
Filed May 4, '16. Dated May 3, '16.
Frame completed $891.00
Enclosed and brown plaster on 891.00
Completed and accepted..... 891.00
Usual 35 days..... 891.27
TOTAL COST, $3564.27
Bond, $1782. Surety, Massachusetts Bonding & Insurance Co. Limit, 45 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOT 11 BLK 18, Richmond Traffic Center Richmond. Concrete, plastering, carpenter, brick work, etc., for one-story frame residence.
Owner.....J. F. Brooks, 124 Cottage Ave., Richmond, and E. M. Tilden, 15th and Nevin Sts., Richmond (Trustees.)
Architect...James T. Narbett 704 Macdonald Ave., Richmond.
Contractor..Matthew Morton, 1300 Alcatraz Ave., Berkeley.
Filed May 4, '16. Dated May 3, '16.
Frame completed $675.75
Enclosed and brown plaster on 675.75
When completed 675.75
Usual 35 days..... 675.75
TOTAL COST, $2703.00
Bond, $1350. Sureties, Jeanie Morton

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No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYERO PANELS in the West.

Ask for our new stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francisco**

and John J. Collins. Limit, 40 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOT 6 BLK 17, Richmond Traffic Center, Richmond. Concrete, cement, carpenter, brick work, plumbing, painting, plastering, electric, finishing hardware and other work for one-story frame residence.
Owner.....J. F. Brooks, 124 Cottage Ave., Richmond, and E. M. Tilden, 15th and Nevin Sts., Richmond (Trustees.)
Architect...James T. Narbett 704 Macdonald Ave., Richmond.
Contractor..Ed. Strowbridge, 161 3rd St., Richmond.
Filed May 4, '16. Dated May 3, '16.
Frame completed $722.00
Enclosed and brown plaster on 722.00
Completed and accepted..... 722.00
Usual 35 days..... 722.34
TOTAL COST, $2888.34
Bond, $1445. Sureties, Robert Pillow and Ray Johnson. Limit, 40 days. Forfeit, none. Plans and specifications filed.

TOWERS, ETC.
AT COMPANY'S PLANT, Avon, Contra Costa County. All work for two steam stills, one 3 compartment condensor box and 2 steam still towers.
Owner.....Associated Oil Co., Sharon Bldg., S. F., and Avon, Cal.
Architect...None.
Contractor..Western Pipe & Steel Co., 444 Market, San Francisco.
Filed May 3, '16. Dated Apr. 21, '16.
Payments not given.....
TOTAL COST, $15,950
Bond, $8000. Sureties, E. C. Chapman and C. B. Wills. Limit, commence work on condensor box by May 1, 1916; steam stills by May 5, 1916 and other work on May 15, 1916. Forfeit, none. Plans and specifications filed.

FRAME TANK HOUSE
LOTS 2 AND 3 IN WALNUT CREEK Park, Contra Costa County. Concrete, carpenter and plumbing for two-room frame tank house (including installation of tank) to be used as dwelling.
Owner.....James A. and Louise W. Maguire, 1220 Wright Ave., Richmond.
Architect...A. A. Cantin, 68 Post, S. F.
Contractor..O. L. MacQuiddy, Walnut Greek, Cal.
Filed Apr. 28, '16. Dated Apr. 16, '16.
When all materials to be used in construction delivered on premises 25%
Frame up 25%
Completed and accepted..... 50%
TOTAL COST, $710
Bond, $400. Sureties, Armand Stow and Acree & Silves. Limit, forfeit, none. Plans and specifications filed.

CLUB BUILDING
HERCULES, CAL. Present site of Hercules Club Building. Excavating, concrete and cement, carpenter, roofing, beaver board work, plumbing, painting, electric also reshingling of entrie present Hercules Club Bldg.
Owner.....Hercules Powder Co., Hercules, Cal.
Architect...James T. Narbett 704 Macdonald Ave., Richmond.
Contractor..C. O. Johnson, 5466 Manila Ave., Oakland.
Filed Apr. 26, '16. Dated Apr. 22, '16.
⅓ work completed.....$1363.50
⅔ work completed..... 1363.50
Completed and accepted..... 1363.50
Usual 35 days..... 1363.50
TOTAL COST, $5454.00
Bond, $2727. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
May 1, 1916—SAN ANSELMO. The First Presbyterian Church to H J Hansen.....March 18, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

GARAGE
LOTS 4 AND 5 BLK 63, Fresno. Garage.
Owner.....Mrs. C. B. Shaver, 2209 Stanislaus St., Fresno.
Architect...None.
Contractor..R. F. Felchlin, 616 Rowell Bldg., Fresno.
COST, $7250

DWELLING
NO. 3435 ILLINOIS AVE., Fresno. All work for dwelling and shed.
Owner.....N. B. Willis, 3048 Madison St., Fresno.
Architect...None.
Day's work. COST, $1550

DRILLING WELL
SEC 1, 20-15, Fresno. All work for drilling of well No. 3.
Owner.....Kern Trading & Oil Co.
Architect...None.
Contractor..Federal Drilling Co., New Call Bldg., S. F.
Filed May 3, '16. Dated Apr. 14, '16.
On 10th of each month..... 50%
Usual 35 days.....Balance
TOTAL COST, $4.20 per foot drilled
Bond, $6300. Surety, National Surety Co. Limit, forfeit, plans and specifications, none.

FRAME BUILDING
CLOTHO, Fresno County. All work for frame packing building.
Owner.....John Quinn.
Designer...G. R. Shannon, 1360 Glenn St., Fresno.
Contractor..Jasper & Wilber.
Filed Apr. 13, '16. Dated Apr. 12, '16.
Floors in $506
Siding up 506
Roof on 506
Completed 507
Usual 35 days.....Balance
TOTAL COST, $2700
Bond, none. Limit, 45 working days. Forfeit, none. Plans and specifications filed.

DWELLING
LOTS 17 AND 18 BLK 4, Arlington Heights, Fresno. Dwelling.
Owner.....J. B. Musser.
Architect...None.
Contractor..Williams & Benson.
COST, $1600

LOTS 9 AND 170 BLK 73, Fresno. Remodel stores.
Owner.....L. W. Moultrie.
Architect...None.
Contractor..Dow & Cannon.
COST, $4200

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
May 3, 1916—NE ¼ SEC 13-15-23 (except 22.40 acres), Fresno. H Bogigian to Wm McCreary..Apr. 26, 1916

BUILDING CONTRACTS

SACRAMENTO COUNTY.

DWELLLIN G
LOWER STOCKTON ROAD AND 7TH Ave, W 20 feet of N 106 feet Lot 234 and N 106 feet Lot 233 of Blk 1, Oak Grove Tract, Sacramento. Five-room dwelling.
Owner.....R. E. Depner, 3114 2nd Ave., Sacramento.
Architect...None.
Contractor..D. Tamarus, 4919 Stanford Ave., Sacramento.
COST, $1500

DWELLING
NO. 2616 D ST., on W ½ Lot 3, D, S. 26th and 27th Sts., Sacramento. Four-room dwelling.
Owner.....S. H. Jackman, 2819 E St., Sacramento.
Architect...None.
Contractor..N. L. Bishop, 2616 D St., Sacramento.
COST, $1200

REMODEL STORE
NO. 318 L ST., on E ½ W ½ N ½ Lot 3, L, M, 3rd and 4th Sts., Sacramento. Remodel store.
Owner.....I. Makichi et al.
Architect...None.
Contractor..Chas. A. Vanina, 2022 M St., Sacramento.
COST, $450

GARAGE
NO. 2518 U ST., on W ½ of Lot 3 U, V, 25th and 26th Sts., Sacramento. Private garage.
Owner.....Philip Johnson, Premises.
Architect...None.
Contractor..W. P. Cippa, 314 U St., Sacramento.
COST, $300

FRAME DWELLING
NO. 2711 SIXTEENTH ST., on Lot 6175 Mission Treco, Sacramento. Four-room frame dwelling.
Owner.....Emil Valine.
Architect...None.
Contractor..C. Valine, 2417 15th St., Sacramento.
COST, $1400

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
Apr. 28, 1916—50 ACRES PTN S. L. S. 323 on Andrus Island in Sec. 9 T 4 R 4, Sacramento. W G Graff vs Horace J and Mae E Brock.....$307

BUILDING CONTRACTS.

SONOMA COUNTY.

CLASS "B" THEATRE
SANTA ROSA. All work for Class "B" theatre.
Owner.....Dr. J. W. Cline.
Architect...— King.
Contractor..J. O. Kuykendall.
Filed Apr. 26, '16. Dated Apr. 20, '16.
Excavation complete and founda-

ion walls to grade.....$3885.00
Brick & concrete walls to bottom of mezzanine joists..... 3885.00
Brick and concrete walls to top of balcony 3885.00
Brick and concrete walls to roof line 3885.00
Fire walls complete and roof on 3885.00
Plumbing, electrical and heating roughed in and brown coat on 3885.00
Completed and accepted..... 3876.50
Usual 35 days..... 9062.50
TOTAL COST, $36,249.00

nd, $18,125. Surety, Aetna Accident Liability Insurance Co. Limit, 120 ys. Forfeit, none. Plans and specications filed.

AME RESIDENCE
ST AND WESTERN AVE., Petaluma. Two-story and basement frame residence.
wner.....Chas. Gervasoni, Petaluma.
rchitect ...None.
ontractor..C. B. Trendall, 41 Hinman St., Petaluma.
COST, $7500

UAGING PLANT AND WHARF
ETALUMA. All work for guaging plant and wharf.
wner.....Shell Co. of California, 343 Sansome, San Francisco.
rchitect ...None.
ontractor..C. B. Trendall, 41 Hinman St., Petaluma.
COST, $——

RAME RESIDENCE
O. 200 PIERCE ST., Santa Rosa. One-story and basement frame residence.
wner.....Mrs. Harriet Castlen.
rchitect ...Turton & Herbert, Santa Rosa Bk Bldg., Santa Rosa.
ontractor..C. B. Kobes, Santa Rosa.
COST, $2860

RAME RESIDENCE
O. 312 OLIVE ST., Santa Rosa. One-story and basement five-room frame residence.
wner.....Al. Locke, Santa Rosa.
rchitect ...G. S. Drysdale, Santa Rosa.
ontractor..George Norris, Santa Rosa.
COST, $1275

RAME RESIDENCE
O. 614 SOUTH A ST., Santa Rosa. One-story five-room frame residence.
wner.....C. D. Clawson, Santa Rosa.
rchitect ...None.
ontractor..B. D. Elliott, Santa Rosa.
COST, $1400

FIFTEEN COUNTIES SPEND $4,151,000 FOR HIGHWAYS.

Fifteen counties in northern California have expended $4,151,000 in the construction of improved highways under the State's $18,000,000 bonding issue, which is now exhausted, according to figures made available by State Highway Engineer A. B. Fletcher. The southern part of the State actually purchased $9,569,000 of which $1,195,- went to Los Angeles county, the largest purchaser.

Forty-three counties of the State purchased highway bonds aggregating $13,720,000. The remainder, $4,280,000, was sold in the open market and was used in various parts of the State. A little less than $2,000,000 is left.

Sacramento and Humboldt counties purchased the largest blocks of bonds north of the bay section. The figures on the northern counties follow:

Humboldt, $600,000; Yolo-Sacramento (causeway fund), $637,000; Mendocino, $455,000; Shasta, $205,000; Siskiyou, $225,000; Tehama, $350,000; Colusa, $186,000; El Dorado, $150,000; Placer, $250,000; Glenn, $268,000; Sutter, $105,- 000; Yolo, $50,000, and Yuba, $45,000.

The counties which did not purchase bonds and which have no highways constructed under the direction of the State Highway Commission are as follows: San Joaquin, which constructed its own highway system; San Francisco, Alpine, Amador, Calaveras, Del Norte, Lake, Lassen, Madera, Mariposa, Modoc, Nevada, Plumas, San Benito and Sierra.

A BIG SPRING.

The State of Florida has its full share of large and beautiful springs. Many of them form good-sized streams from the beginning, and some are navigable.

The largest spring in the State, and one of the largest and probably the best known in the United States, is Silver Spring, which is located six miles east of Ocala. This spring forms the principal source of the Oklawaha River, a tributary of the St. Johns, and steamboats traversing the river enter the spring basin, which has an area of several acres. The water is from 9 to 30 feet deep and wonderfully clear, appearing absolutely colorless.

IRON IN WALLS OF LIGHT STATION STANDS TEST.

The United States Bureau of Lighthouses reports that a recent examination of the expanded metal reinforcement made of pure iron for the walls of Galveston Light Station, which has been in position since prior to the hurricane of August 16-17, 1915, and the greater portion of which is uncovered, shows that it has not been impaired by this exposure. Little or no deterioration has occurred, and the iron is probably in as good condition as when installed. When purchasing, it was specified that the expanded metal should be made of pure iron instead of steel, as usually the case.

NATIONAL HIGHWAY ASSOCIATION.

WASHINGTON, April 23.—Resolutions urging Congress to create a National Highways Commission to investigate and report upon the most economic and beneficial method for the Federal Government to participate in the building of good roads are being submitted by the National Highways Association to State Legislatures, Chambers of Commerce and civic organizations in all sections of the country.

WASHINGTON, April 26.—Road data from twenty thousand postmasters of cities and towns located along the 100,- 000-mile national highway route projected by the National Highways Association, is being gathered here to aid in the Association's campaign to obtain a system of federal built roads.

To do this fifty tons of mail, filling five hundred mail sacks, have been mailed out from the Association's headquarters. In order to obtain accurate data, it was necessary to place the most modern and best drawn maps in the hands of the postmasters.

Supplementing this effort to obtain accurate and detailed information regarding road conditions, the Association has circulated maps and information in all to 160,000 persons. Publishing companies, banks, school teachers, clubs and other organizations interested in good roads, the Boy Scouts and Camp Fire Girls have been enlisted in this nation-wide effort to gather exhaustive road data.

In all 1,870,000 pieces of printed matter were distributed, of which over a million were maps printed in either two or four colors. Some extent of the magnitude of this undertaking may be gained from the fact that there were 3,175,000 impressions taken to prepare these maps.

This work is in addition to the Road Photograph contest which the Association has instituted and which is designed to produce a pictorial exhibit on road conditions in every section of the country. For three years the National Highways Association has now been engaged in surveys and tours of highways, employing the best expert engineering skill. Its projected highway routes from Ocean to Ocean and from Canada to Mexico, represent the product of these three years of labor.

When its detailed road data is gathered, compiled, and added to the information obtained in these tours and surveys, and its photographic exhibit is perfected, it is expected that the Association will have established in the National Capital the most complete "Road Museum" ever known in this country. It is the Association's aim to gather every scrap of road information which can possibly be obtained, its slogan being that road making and road mapping is a science which requires exhaustive study and complete knowledge of the subject and country.

If it succeeds in its effort to have a National Highways Commission created by act of Congress to study the road problem from a national viewpoint and to guide and control the work of the Federal Government in road building all of this information will be placed at the disposal of the Commission.

NEW YORK TO HAVE 2000-ROOM HOTEL.

New York is to have a new 2000-room hotel, to cost from $6,000,000 to $8,000,000 as one of the Stattler chain, according to an announcement by E. M. Stattler, an officer of the hotel company. The site will probably be near the Grand Central terminal, although the neighborhood of the Pennsylvania also is being considered.

DESERT WATER PROJECT.

BAKERSFIELD — A project which contemplates the construction of works costing $400,000 for impounding all the water of Oak Creek watershed and the irrigation of 61,440 acres of Kern County land south of the Tehachapi has been laid before the State Water Commission by the Mojave Mutual Land and Water Co., a San Francisco corporation. Should the application be granted a vast territory of desert land would be placed under cultivation.

CHOICE OF FOUR CAREERS OFFERED MINING STUDENTS.

Training for any one of four different careers may hereafter be chosen by students of the College of Mining of the University of California.

A fundamntal reorganization of the curriculum of the College of Mining has just been approved by the Academic Senate by which students may choose between four-year courses for mining engineers, metallurgists, economic geologists, or petroleum engineers.

Choice need not be made until after the Freshman year is completed. After all the students in the College of Mining have had a year's fundamental training in mathematics, physics, chemistry, surveying, hygiene, physical education, and military drill, and in mechanical drawing specially planned for mining students, then they will begin to specialize.

The students in petroleum engineering will have special work in chemistry, invertebrate geology, palaeontology, petroleum mining (including prospecting, the drilling and control of oil wells, methods of extracting oil and gas from wells, methods of separating sand, water, and gas from oil, and asphalt mining, and in the transporting, storing, and marketing of petroleum, including the economics of the oil industry and the valuation of oil lands. A new course will be given in petroleum cost accounting, including cost-keeping and accounting methods for the oil

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11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
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fields and methods for the payment of workmen, the purchase and distribution of supplies, and the making of production records and administrative reports, and a new course in the investigation of special problems in the production, transportation, and storage of petroleum, with practice in gauging and testing.

Those who specialize in economic geology will have much advanced training in geology, palaeontology, and mineralogy. The metallurgists will have thoroughgoing training in the metallurgy of gold, silver, quicksilver, lead, copper, iron, steel, etc. The students of mining engineering will be given broad engineering training with instruction in mine cost-accounting, the metallurgy of gold, silver, quicksilver, iron, and steel, and the construction of mining plants, and a new course in coaliminig, in which they will be instructed in the development and equipment of a coal mine and mining and preparation of bituminous and anthracite coal.

The College of Mining, of which A. C. Lawson, Professor of Mineralogy and Geology, has now succeeded the late Professor Samuel Benedict Christy as Dean, now has on enrollment of ninety-six. It is more splendidly housed than any other mining school in the world, in a great granite edifice built and equipped through the generosity of Mrs. Phoebe Apperson Hearst as a memorial

SALEM, Ore.—The mysterious disappearance of 320 miles of highway in Lincoln county as shown in the biennial road report of Oregon, caused the Department of Agriculture at Washington to wonder.

When Malheur, the biggest county in the state, showed at an increase of 2,000 miles of highway in two years, numerous gifts made by exhibitors of mining and geological collections at the Panama-Pacific International Exposition.

MODERN HIGHWAYS.

(From The Redwood.)
By W. J. Christy, C. E., '16, (Santa Clara University.)

Directly or indirectly, the effects of good highways are felt and appreciated in every department of our social life. They are the arteries which carry the life blood of a community, and by them one may judge its character, its strength and its progressiveness.

Improvement in highway construction has of necessity followed the advent and development of the automobile, because a good smooth road is absolutely essential for obtaining the full efficiency of the motor car, and adds greatly to the pleasure and safety of motoring.

The pleasure and recreation which an automobile brings cannot be reckoned in cold cash. The ever increasing popularity and steady demand for the motor vehicle is ample proof if its merits—but without good roads its usefulness would be seriously impaired.

Pioneer motorists often found themselves in trouble. It was not very pleasant to be occasionally stuck fast in axle-deep mud. On the other hand rough roads full of ruts and "chuck-holes" resulted for the motorist in a series of discomforts from broken springs to wrecked nerves. These annoying experiences gave a strong impetus to the popular "Good Roads Movement."

With the development of the motor vehicle for commercial purposes the need of good roads become more and more evident. The constantly decreasing cost of machines and the range of uses to which they can be put has led the good work on with such results that we now see a veritable network of highways spreading over the entire country.

The construction of this system of highways was too large to be left to each county or district to "bungle," so the states assumed control, unifying and systematizing the work. California, with its fair climate and beautiful scenery, is a paradise to the motorist because the state, recognizing its opportunities, quickly took advantage of them and became a leader in the construction and development of first-class roadways.

Several highways have been built mainly as scenic routes. Notable among these is the Columbia River Highway which unfolds the wonders of the Columbia River Gorge. The Pike's Peak Highway in Colorado is another example of this type. It is interesting to note that it is a toll road being financed by private capital.

Good roadways are also an important item in a sound "Preparedness" policy, for in war times they are a valuable asset in either offensive or defensive warfare. The wise old Romans knew the military value of the rapid movement of troops and spent much effort in constructing and maintaining good roads. Their splendind military roads amply proved their effectiveness. Many of these highways like the Via Appia are in good condition today after 2000 years of service.

The importance of the auto in the warfare of today is established; they are fast supplanting the army mule in transportation of war material, and poor roads would cripple their efficiency. Who can say what delay would mean in a crisis? It would be too late to build roads after war was declared and modern artillery must have good roads and strong bridges if it is to be effective.

Road making underwent a change with the coming of the auto. It soon was evident that the old construction was not strong enough for the service. It was a new problem and little was known about it. More thought was given to the subject and experimental roads were built and their behavior under traffc studied. The results of these experiments were discussed and debated at length in the engineering press and this discussion and exchange of ideas hastened development and stimulated interest. Two general types have resulted: broken-stone roads and concrete pavement roads.

The objects in paving is to distribute the load over the foundations, to present a smooth hard wearing surface with its easy riding qualities and low tractive resistance, and to maintain a permanent, hard and impervious surface, thus insuring a good road in winter when earth roads are usually in their worst condition.

Most soils form good foundations when dry, but water softens them, causing them to heave and settle unevenly, thus breaking up and destroying the pavement. Therefore it is of prime importance that the foundation be thoroughly drained. This is accomplished by side ditches or tile drains. Culverts and bridges everywhere stand as evidence of the engineer's respect for the destructive power of water.

The most important elements that govern the choice of a type of pavement are: available funds, available materials, and the amount and kind of traffic.

The choice must not be a haphazard guess, but the advantages, disadvantages and relative costs of the different types must be weighed and studied before a decision is made.

Good construction requires the proper combination of good materials, and in order to obtain the best results the raw materials should be tested carefully to determine their quality and the proper proportions to be used.

A broken stone road is a road paved with crushed stone applied in layers and compacted by rolling until it is a homogenous mass. Small stone compacts best and gives a smoother surface, the size depending upon the toughness of the stone and the kind of traffic. Small sizes crushes easily under heavy loads. The bottom layer is usually 3 or 4 inches in thickness, while the wearing surface is ½ to 2 inches thick, according to the type of stone and the kind of traffic.

In quality the stone must be hard so as to support the loads placed upon it; tough so as to stand the impact and abrasion of the moving wheels. In order to thoroughly compact the stone, it is applied in layers and each layer is rolled separately. The rolling is of the utmost importance. If it is not rolled enough the fragments of stone will not be firmly bonded together. If the roller is too heavy or the stone rolled too much the pavement will rupture and fall to pieces. When properly built of good stone the road will stand up well under moderately heavy traffic.

Concrete in highways is under hard service and must be of the best. It must be hard and tough to stand the shocks and abrasive action that it will receive. It is a new construction material, but our limited experience shows that to get the best concrete the raw materials must be proven quality and the right proportion for the mixture be determined by suitable tests. This proportion must be adhered to, strictly, in the actual mixing on the job and the mixing itself must be thorough. Fresh concrete should be kept damp while setting. Expansion joints must be provided for the expansion of the pavement.

Different methods of finishing the surface are used. A wearing coat of asphalt has been applied, with good success on many sections of the California State Highways.

If properly built the concrete road will stand the heaviest automobile traffic and will make a lasting road. But the work is not finished when the paving is completed. The maintenance is as important as the construction. The best road will not last forever, but the repair of defects as soon as they appear will result in a much longer life and better service of the road.

CALL FOR TENDERS FOR BOLIVIAN RAILWAY.

The call for tenders for the construction of a railway from Potosi to Sucre, an extension of the Rio Mulato-

Potosi branch of the Antofagasta & Bolivia Railway, concerning which announcement was made in Commerce Reports for February 14, 1916, has now been issued by the Bolivian Government. The law as passed by the National Congress of that southern Republic stipulates:

Article 1. The Bolivian Government calls for bids for the construction and exploitation of the Sucre-Potosi Railway, on the basis of plans already made and in accordance with the specifications. The terms for the presentation of bids at La Paz, Bolivia, is fixed until June 30, 1916.

The Government offers a guaranty of 6 per cent interest on the capital to be invested in this work, and supports the guaranty by the following resources:

(a) 2,034,547 Bolivian pesos [the Bolivian gold peso, or boliviano, is equal to 38.9 cents U. S. currency], which is already deposited for that purpose in the national banks, as well as the interest to accrue from such deposits, with an additional sum of 100,000 bolivianos; the value of the plans and surveys made, which is to be reimbursed to the Government by the concessionaire.

(b) The proceeds from the tax of 1 boliviano on each metric quintal [220.-46 pounds] of foreign goods imported for consumption in the Departments [States] of Chuquisaca and Potosi, which shall also be deposited in the National Banks as security for said guaranty.

(c) The amount of 100,000 bolivianos annually for ten years from 1917, to be specified in appropriations of 50,000 bolivianos each in the Departments of Chuquisaca and Potosi, which shall, in the same manner, be deposited for the aforesaid purpose.

(d) The subsidiary guaranty of national revenues, without affecting previous obligations, as well as such taxes and resources as may, in the future, be designated for the purpose of said guaranty.

Article 2. If no domestic or foreign tenders are presented, the Government may negotiate a loan sufficient for the construction of the railroad, giving as security the resources above mentioned and offering an annual interest up to 6 per cent and a cumulative amortization of 2 per cent per annum, besides the value of the railroad itself and its profits. Once the loan is obtained, the construction will be carried on for account of the Government, either through direct administration or through contractors.

Article 3. In such case the amounts now on deposit and the other resources created by this law will be directly employed by the Government in the aforesaid construction for account of the nation.

Article 4. Arrangements may also be made with contracting firms of acknowledged responsibility on the basis of the Government supplying, as part of the construction capital, the amounts already deposited in the banks, on terms which would require the approval of Congress.

A supplementary decree of January 5, 1916, limits the guaranty of 6 per cent annual interest to a maximum term of 20 years. It also requires that the bidder shall accompany his tender by a special power of attorney (if acting in another's behalf) and a certificate from a bank, satisfactory to the Government, for the amount of 1 per cent of the total estimated value of the railroad, as a guaranty of his fulfilment of the contract. If his tender is accepted, the bidder shall deposit the value of the certificate to the order of the Government before the concession is signed. The privileges and obligations of the concessionaire, such as the fixing of rates, right of way, free importation of tools and material, termination of concession, etc., will be governed strictly by the railway law of October 3, 1910.

Full particulars in regard to the Sucre-Potosi Railway will be furnished upon request by the Bolivian Consulate General, 2 Stone street, New York. A map and description (in Spanish) of the proposed route may be inspected at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 111.

WRAPPING PAPER FROM PINE AND FIR.

WASHINGTON, D. C.—The immense possibilities of developing southern pine and Douglas fir sawdust and other waste into wrapping paper have been reviewed for the members of the United States Senate committee which has under discussion the proposal to increase the scope of laboratory investigations, in the following memorandum on the production of Kraft Wrapping paper from southern pine and douglas fir, by Chief Forester Henry S. Graves:

Kraft Wrapping Paper from Southern Pine.—The waste incident to the production of southern pine lumber is of sufficient quantity to produce the enormous amount of approximately 20,000 tons of paper per day. Laboratory experiments have determined the suitability of this material for the manufacture of Kraft Wrapping paper by the sulphate process, and it now only remains to determine to what extent the laboratory results are applicable on a commercial basis.

Kraft Wrapping Paper from Douglas Fir.—What has been said of the possibilities of southern pine is largely applicable to Douglas fir. While the laboratory experiments with this species have not progressed to the same point as with the southern pine, the indications are that Douglas fir is also well adapted for production of Kraft paper and subsequent to the completion of the suggested work on pine, it would be my idea to utilize the experimental equipment securd for this purpose in similar work in the West with Douglas fir. Wrapping paper in this territory is at present secured from either western paper mills using sulphite plup or from eastern or European mills supplying either sulphite or Kraft wrappings. In the latter case, it is of course necessary for the western consumers to pay freight charges amounting to about $15 per ton. The laboratory recently made paper of Douglas fir which tested a point to a pound, putting it in the class with the strongest wrapping papers made in the United States.

MUCH WOOD FLOUR USED BY DYNAMITE AND LINOLEUM MAKERS.

WASHINGTON, D. C.—More than twenty thousand tons of wood flour, valued at $300,000, are used annually in the United States in two widely different industries, the manufacture of dynamite and the manufacture of inlaid linoleum.

Wood flour is also used in making composition flooring, oatmeal paper, and in several other industries. It forms one of the means by which the huge waste product of our lumber mills is beginning to find some better means of disposal than the burner. Since a total of 36,000,000 cords of such waste is produced each year at sawmills in the United States, of which about one-half goes into the furnaces as fuel while the rest is burned as refuse to get rid of it, there is no lack of raw material for industries which can develop ways of turning this waste to account.

All wood flour-using industries require a white or very light cream-colored flour having good absorptive powers. The wood species that may be used are confined to the light, non-resinous conifers, and the white broad-leaved woods like poplar. Spruce, white pine and poplar are the species most used. Mill waste, free from bark, furnishes much of the raw material for making wood flour.

For use in dynamite, the trade demands are said to require a white wood flour, since the freshness of dynamite stock is indicated by a light color. Dynamite flour must also be very absorptive, so there will be no leakage of nitroglycerine from the finished product. Wheat flour mill refuse and infusorial earth have also been used in dynamite making, but wood flour has practically replaced them in this country.

In the manufacture of linoleum, either wood or cork flour is used. The flour is mixed with a cementing material, spread out on burlap and rolled or pressed to a uniform thickness. The cement is the expensive constitutent. Cork linoleum is the cheaper because less cement is necessary. The patterns are printed on, leaving a dark base. For inlaid or straight-line linoleum, wood flour is used exclusively. Cork linoleum is always dark, and slightly more elastic than that produced from wood flour. The wearing qualities are about the same..

Two methods of producing wood flour are practiced; one using millstones, the other steel burr rollers to pulverize the wood. The latter requires only one-fourth as much power to operate as the former and was developed on the Pacific Coast to handle sawdust as a raw material. The mills of Norway which produce much of the European wood flour are of the same type.

BIRTH OF AN INDUSTRY.

Nearly $350,000 Worth of Potash Produced in 1915.

Potash salts were produced in the United States in 1915 to the value of $342,000, according to the United States Geological Survey. Though this figure is of interest as showing a small beginning in the domestic potash industry, it becomes of little importance if the total needs of the country are considered, for it represents a quantity consumed in less than a week under normal conditions.

Reduced Imports.

The imports of refined potash salts in 1916 were 76,141 long tons, or slight-

ly more than 25 per cent of those in 1913, the latest normal year of importation. Imports of the potash fertilizers, kainite, manure salts, and double manure salts, amounted to 20,427 long tons, or about 3 per cent of those in 1913. Taking all the potash salts together, the imports in 1915 were about one-tenth of those under normal conditions.

Progress in the Domestic Industry.

In the Survey report on the subject, W. C. Phalen states that potash was recovered within the United States as a by-product from the manufacture of Portland cement at Riverside, Cal. By-product potash from this source has yielded a considerable revenue, owing to the abnormally high price for these salts ,and in obtaining it two other purposes have been subserved—first, the saving of additional material to be converted into cement, and second, the elimination of the dust nuisance. At Riverside a discharge of 100 tons of dust a day over the surrounding orange groves has been prevented.

Potassium sulphate from alunite was first placed on the market late in October, 1915, by the Mineral Products Corporation, at Marysvale, Utah. The production has not been large so far, owing to the incidents connected with a pioneer enterprise of this character. Though certain foreign deposits of alunite have been worked for potash alum, this is the first recorded yield of potash salts as such from alunite. The product is of high grade.

The plant of the Potash Products Co., of Omaha, Neb., was established in the spring of 1915 at Hoffland, near Alliance, in the northwestern part of the State. During about half of the year the company obtained potash salts from the brine of an alkaline lake in this region.

In addition to output from the above sources, potash was marketed in 1915 from kelp obtained along the Pacific coast.

Future Sources of Production.

Experimental work on the production of potash salts from different sources was active during the year, and in places this activity has been succeeded by the construction of plants. Operations are in progress at Searles Lake and at Keeler, on the shores of Owens Lake, Cal. It is reported that one company is erecting a plant near Great Salt Lake and that another will soon be started at the south end of the lake. The by-product bittern at solar evaporation plants on San Francisco Bay has also received some attention.

Another plant has been planned for the extraction of potash salts and alumina from alunite at Marysvale, Utah.

Manufacturers of Portland cement, having had their attention directed to a possible revenue from by-product potash, will not be slow in thoroughly investigating their raw material. Already the Security Cement and Lime Co., near Hagerstown, Md., is reported to be installing a plant for the recovery of potash salts.

Great activity has been manifested in experiments for the recovery of potash from the silicate rocks, such as feldspar and leucite, from the mica sericite, and from greensand. The expense involved in obtaining potash salts from these sources, together with the uncertainties with which manufacturers will be confronted and the keen German competition likely to be met at the close of the war in Europe, have tended to discourage chemical engineers an capitalists. However, in many laboratories researches have been in progress, some of which, according to reports, offer prospects of profitable commercial development if feldspars an other potash-rich rocks in sufficient quantity and purity can be found and made available.

A small quantity of potash salts was probably produced from these silicate rocks and minerals during 1915 and found its way into mixed fertilizers without intermediate refinement.

LAW IS VERY PLAIN IN DAY LABOR DEFINITION.

The law defining what is a day's work on State, municipal or public contracts where labor is employed is so plain that it seems to be almost inexcusable, to use a mild term, that it can be readily and repeatedly violated.

Not only does the law define what is a day's work for labor, but it requires that authorities letting contracts for such work shall cause to be inserted therein a stipulation which shall provide that the contractor to whom said contract is awarded shall forfeit ten dollars for each laborer, workman or mechanic employed by him on public work who is permitted to work more than eight hours in any one day.

Nor is this law a new one. It was passed in 1903, and ought to be fairly familiar to every attorney.

In Henning's eneral Laws of California, Volume 5, page 1103, is shown the law relating to employment on public work, which reads:

"The time of service of any laborer, workman of mechanic employed upon any of the public works of the State of California, or any political subdivision thereof * * * * is hereby limited and restricted to eight hours during any one calendar day; and it shall be unlawful for any officer or agent of said State, or of any political subdivision thereof, or for any contractor or subcontractor doing work under contract upon any public works aforesaid, who employs, or who directs or controls the work of any laborer, workman or mechanic, employed as herein aforesaid to require or permit such laborer, workman or mechanic, to labor more than eight hours during any one calendar day. * * * *"

And then the law directs that any city trustee or board of city trustees or any officer of any other political subdivision of the State shall provide in all contracts made for public work for the enforcement of this law. It reads:

"Any officer or agent of the State of California, or any political subdivision thereof, making or awarding as such officer or agent any contract, the execution of which involves or may involve the employment of any laborer, workman of mechanic, * * * shall cause to be inserted therein a stipulation which shall provide that the contractor to whom said contract is awarded shall forfeit, as a penalty, to the State or political subdivision in whose behalf the contract is made ten dollars for each laborer, workman, or mechanic employed in the execution of said contract by him, or by any subcontractor under him, * * * for each calendar day during which such laborer, workman or mechanic is required or permitted to labor more than eight hours in violation of the provisions of this act; and it shall be the duty of such officer or agent to take cognizance of all violations of the provisions of said act * * * and to report the same to the representative of the State or political subdivision, party to the contract, authorized to pay said contractor moneys becoming due to him under the said contract, and said representative when making payments of moneys thus due, shall withhold and retain therefrom all sums and amounts which shall have been forfeited pursuant to the herein said stipulation."

Placing a penalty upon the officer or agent of any political subdivision of the State who fails to enforce the above law, the third section of this statute says:

"Any officer, agent, or representative of the State of California, or of any political subdivision thereof, who shall violate any of the provisions of this act, shall be deemed guilty of a misdemeanor, and shall upon conviction be punished by a fine not exceeding five hundred dollars, or by imprisonment, not exceeding six months, or by both such fine and imprisonment."

Another section of the law requires the minimum wages on public work to be not less than two dollars per day. And stipulates that this also shall be a part of the requirements of the contract, placing a penalty upon the officers of the State or any municipal corporation for failing to make such requirement in the contract or contracts let.—Healdsburg Scimitar.

NEW CONCESSIONS IN CHILE.

The Government of Chile has leased for five years to the Chilean Nitrate & Railway Co. (Ltd.) certain land in the port of Tocopilla for the development of nitrate business. Alfredo Neuman has been granted a five-year lease of ground at the port of Lake Llanquihue, on which to construct a warehouse for agricultural products. Government approval is given to the transfer to Guillerma Bruning of a concession recently granted to Santiago Schweizer for the establishment of electric light and power service in the city of Puerto Montt. Horacio Urrutia Gundian has been granted permission to establish electric light and power service, using overhead wires, in the cities of Illapel, Salamanca, and Vicuna. In addition to these concessions in recent numbers of the Diario Oficial, an executive decree is promulgated to prohibit the placing of overhead wires on streets where other electric lines have been previously installed, though underground wires may be installed in such streets by later concessionaries.

FOREIGN SPECIFICATIONS FOR RAIL WAY MATERIAL.

With the object of placing in convenient and accessible form before those in the United States interested in or responsible for railway materials, the Bureau of Standards, Department of Commerce, in connection with its investigation of failures of railway material, has obtained, through the courtesy of the State Department, copies of specifications for railway material—rails, axles, wheels, and tires—used in several European countries.

These specifications are given in full, together with a digest and discussion, in Technologic Paper No. 61, just issued. The available data concerning the types and weights of foreign railway equipment, together with those concerning derailments and accidents abroad, are also included in the publication. Persons interested may obtain copies of the paper, which is entitled "Foreign Specifications for Railway Material," without charge upon application to the Bureau of Standards, Washington, D. C.

"LADIES' NIGHT" AT GENERAL CONTRACTORS' ASSOCIATION A BIG SUCCESS.

One of the largest gatherings, distinctive of the building industry, which this city has ever seen, assembled in the headquarters of the General Contractors' Association last Saturday evening to enjoy "Ladies' Night."

Over five hundred of the building fraternity and their wives, daughters and sweethearts, were present. The guests were received between 8 and 8:30 P. M. when the following vaudeville program occupied the evening until 10:30 P. M., a large stage, temporarily erected, being used for the purpose:

The Entertainment Committee was as follows:

P. J. Lynch, Chairman

Al Pape, Stage Director; J. M. Morrison, Publicity.

R. G. Guyett, Reception and Floor; Herman Lawson, Refreshments.

Reception and Floor Committee.

R. G. Guyett (Chairman)

RECEPTION

A. H. Bergstrom, Harold Braunton, P. J. Cole, Edw. Ginley, Chas. W. Gompertz, Thos. B. Goodwin, Chas. Hagans, H. H. Hilp, H. J. Hughes, W. H. Malott, A. F. Lindgren, F. H. Masow, John Monk, D. B. MacDonald, R. J. O'Brien, Geo. A. Sittman, L. A. Taylor, Charles Wright.

FLOOR

M. H. Lanzet, David Zelinsky, Graut Fee, A. B. Swinerton, Emil Hogberg, Wm. H. George, Ralph McLeran.

PROGRAMME.

1. Overture..Knickerbocker Orchestra
2. Bass Solo.....L. A. Larsen
3. Version of Salome...interpreted by Miss Dorothy Isabell Symon
4. Mechanical Dolls.Miss Alice Figone, Henry Will and Al Pape of the Gen. Contractors' Association.
5. Selection.....California Quartette
6. Olympic Club Duo.....Wallfish and Harry McKenzie
7. Scientific Boxing..by Champions of Olympic Club
8. Comedy Acrobats.....E. P. Bly and C. K. Sutcliff
9. Exhibition Wrestling....by Prof. Al Williams (instructor of the Olympic Club) and Alex Linnarcs
10. Violin Solo..(a) Beethoven Minuet (b) Traumerei. Leo M. Vezina
11. A Bundle of Rag-time....Miss Flo Brown, Late of the Orpheum Circuit
12. Classical Hulu-hulu Dancer..... Dollie Clark, Late of the Bird of Paradise Co.

Immediately after the completion of the above program the 450 seats on the ground floor of the main auditorium were rapidly removed while those present enjoyed a supper served in buffet style. Two hours dancing then completed an evening which all present pronounced an unqualified success.

CHILEAN INDUSTRIAL EXPOSITION.

Supplementing his report on the Industrial Exposition that is to be held in Santiago, Chile, beginning next September, Commercial Attache V. L. Havens has forwarded a copy (in Spanish) of the prospectus and application blank issued by the Sociedad de Fomento Fabril for the use of intending exhibitors. This blank will be loaned to interested American exporters and manufacturers upon request by the Bureau of Foreign and Domestic Commerce, Washington. Ask for file No. 1298.

SHANGHAI AMERICANS TO FORM CLUB.

The Shanghai papers, in reporting the proceedings of the Washington's Birthday anniversary celebration of the American Association, comment very freely on the launching of a proposal, as put forth by the president of the association, to secure an American club in Shanghai. There were 225 Americans present at the dinner given at the Astor House Hotel by the American Association, and at this time the proposal to establish an American Country Club in Shanghai was enthusiastically received. There are over 1,500 Americans resident in Shanghai, which means that America ranks third in the foreign population of that city, Japan and Great Britain having larger numbers. There are in Shanghai club houses for the British, German, Japanese, and French communities, but the Americans have not yet done anything for themselves in this direction. An American club would do much to bring Americans together, and assist materially in furthering American prestige in China. There are now in Shanghai an American Chamber of Commerce, an American Association for China, an American Bar Association, an American Volunteer Company, an American University Club, an American Women's Club, and others, all of which are obliged to meet in rented quarters, no two organizations at the same place. A central organization would provide meeting rooms for the American organizations now in existence, and help to co-ordinate these interests.

EXTENSION OF SEWER SYSTEM IN SANTIAGO.

Extensive additions to the sewer system of Santiago, Chile, are required by an executive decree in the Diario Oficial for March 9. Installations of sewer pipes in a given list of properties are to be made within six months from May 1 of this year.

INSURANCE RATES TO BE REDUCED.

STATE COMPENSATION INSURANCE FUND GIVES FACTS AND FIGURES FOR TWO YEARS.

The April issue of the Compensation News Bulletin, issued by the State Compensation Insurance Fund, has just come from the press and contains many items of interest to employers.

This Bulletin comments on the recent sweeping decision of the Supreme Court upholding the Workmen's Compensation, Insurance and Safety Act and points to the fact that while the law has been attacked on many different points, the Supreme Court has consistently upheld its constitutionality. This latest decision removes the old argument against State Insurance so often advanced by corporate insurance companies.

The News Bulletin also gives some interesting figures on Compensation Insurance, showing that the refund to policyholders for the years 1914 and 1915 amounts to $165,000.00 and that this is to be followed by a further substantial return to policyholders of those years when the legal reserves have been released.

To December 31, 1915, the total compensation and medical payments actually made by the "Fund" on injury cases amounted to $269,847.44 and when all future payments have been made on claims for injuries sustained prior to December 31st, it is estimated that these claims will have cost $446,006.55.

The refunds now being paid to policyholders on 1915 earned premiums vary in accordance with the experience under the individual policies. Some employers are receiving less than the average of 15%, while others are being paid as much as 25.6% of their premiums. When the risk shows no profit no refund is allowed.

This plan assists the Safety movement materially as it furnishes a monetary incentive for employers to adopt every means possible in the prevention of accidents.

The financial report of the "Fund" shows that it increased its business materially the second year and now writes by far the largest compensation insurance business in the States, having increased its lead over its nearest competitor to more than $250,000 in premiums.

Some space is devoted to the new Rating Law, under which the Insurance Commissioner controls rates. It is shows that State competition has forced rate reductions and the Bulletin adds the cheering news that the new rates soon to be published will show a revision which is principally downward.

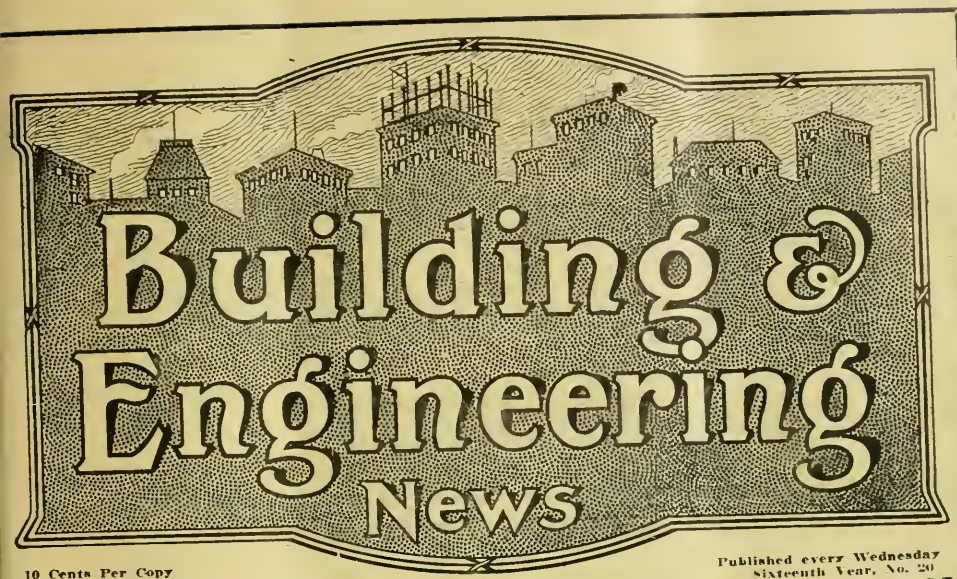
Copies of the Bulletin are to be sent to about 20,000 employers throughout California as soon as they are completed by the state printer.

AMERICAN RIVER PROJECT.

SACRAMENTO — Preliminary surveys now are being rushed by E. R. Walker, G. S. Nickerson and associates of this city on a new American River project, which when completed, will increase the area of intensive cultivation directly adjacent to Sacramento by 25,000 acres. Under the plan it will be possible to put water on the lands around Rocklin, Loomis, Roseville, not now supplied—everything, in fact, up to the 400-foot level. Between 400 and 500 acres will be covered by the dam site, while the dam itself will hold 50,000 acre feet of water. From the dam a ditch will extend down the river 14 miles and across the country to the north fork.

AWARD CONTRACT FOR BANK FIXTURES.

The Fink & Schindler Co., 226 13th street, has been awarded the contract for mahogany bank fixtures for the Bank of Amador County, Plymouth, California.



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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April Building Totals.

Newspaper reports concerning building operations throughout the country have been very optimistic in recent weeks. That this popular impression is well founded is shown by the statistics for the month of April. The official reports of building operations in 113 principal cities of the United States for last month, as compiled by the "American Contractor" of Chicago, The California Development Board and the "Builder" total $90,328,250 for April 1916, against $77,806,300 for April 1915. Detailed figures follow:

Cities	Apr., 1916 Cost	Apr., 1915 Cost
Alameda, Cal.	$ 48,698	$ 28,435
Albany, N. Y.	432,455	285,745
Allentown	370,720	146,295
Altoona	140,933	113,570
Atlanta	573,647	446,337
Bakersfield	7,785	30,035
Baltimore	763,275	388,213
Bayonne	66,465	54,680
Berkeley, Cal.	143,780	129,000
Binghamton	193,850	180,335
Birmingham	171,503	169,701
Boston	6,837,000	5,257,000
Bridgeport	646,437	1,493,413
Brockton	100,110	80,803
Buffalo	803,000	1,190,000
Canton	451,455	218,520
Cedar Rapids	205,000	251,000
Chattanooga	91,300	44,295
Chicago	11,371,600	6,820,700
Cincinnati	1,156,165	1,317,485
Cleveland	2,625,055	3,076,385
Colorado Springs	28,373	12,045
Columbus	1,166,810	406,555
Dallas	186,701	492,175
Davenport	85,330	108,022
Denver	340,960	329,590
Des Moines	162,075	225,223
Detroit	3,796,560	4,268,460
Duluth	612,348	340,178
East Orange	215,143	132,501
East St. Louis, Ill.	93,585	378,280
Elizabeth	63,245	121,825
Erie	282,449	213,918
Evansville	140,851	70,198
Fort Wayne	349,236	238,520
Fresno	110,427	71,202
Grand Rapids	488,097	298,394
Harrisburg	373,445	95,375
Hartford	1,091,511	584,602
Haverhill	151,100	113,050
Hoboken	63,860	79,750
Holyoke	186,860	21,650
Huntington	163,225	60,210
Indianapolis	861,674	776,511
Jacksonville	58,485	216,235
Kansas City, Kan	105,864	117,560
Kansas City, Mo.	1,219,949	1,125,170
Lawrence, Mass.	273,320	98,325
Lincoln	426,260	195,999
Long Beach	79,647	77,611
Los Angeles	1,304,407	1,591,399
Louisville	298,890	282,560
Manchester	124,027	909,520
Memphis	282,545	438,335
Milwaukee	822,371	1,115,750
Minneapolis	2,035,685	1,951,235
Montgomery	46,100	54,915
Nashville	512,448	70,078
Newark	842,617	549,846
New Bedford	779,665	434,520
New Haven	406,630	465,320
New Orleans	242,061	339,571
New York City	17,234,315	18,070,817
Manhattan	8,599,760	6,920,467
Bronx	1,923,473	3,057,143
Brooklyn	3,952,243	5,290,515
Queens	2,387,868	2,412,905
Richmond	370,971	389,787
Norfolk	226,384	163,218
Oakland	706,479	530,302
Oklahoma	193,085	46,865
Omaha	406,935	389,420
Pasadena	189,813	96,923
Passaic	111,675	81,099
Paterson	252,309	124,516
Peoria	103,769	317,305
Philadelphia	6,227,780	3,449,900
Pittsburgh	1,250,762	974,283
Pueblo	23,671	19,875
Quincy, Mass.	223,269	154,725
Reading	255,150	111,375
Richmond, Cal.	45,740	7,527
Richmond	595,608	370,114
Rochester	1,168,294	1,159,257
Sacramento	79,573	58,591
Saginaw	39,705	69,816
Salt Lake City	260,745	252,852
San Antonio	124,928	131,955
San Diego	208,454	95,350
San Francisco	2,240,406	1,993,396
San Jose	86,251	103,077
Santa Rosa	6,419	23,114
Savannah	102,875	209,795
Schenectady	213,561	101,748
Scranton	110,873	118,052
Seattle	556,510	837,105
Sioux City	214,250	201,670
Spokane	62,184	126,875
Springfield, Ill.	215,425	115,115
Springfield, Mass	465,785	365,475
St. Joseph, Mo.	260,519	130,320
St. Louis	1,003,146	986,719
St. Paul, Minn.	966,504	829,914
Stockton	77,780	38,503
Superior	131,180	95,480
Syracuse	1,083,837	1,172,105
Tacoma	185,110	47,889
Tampa	135,130	106,665
Toledo	1,188,467	959,012
Topeka	62,967	108,875
Trenton	327,623	219,000
Troy	54,896	60,745
Utica	153,340	37,925
Wichita	387,510	36,150
Wilkes-Barre	69,905	119,746
Worcester	556,848	542,860
Youngstown	373,001	219,505
Total	$90,328,250	$77,806,200

An investigation of fire resistance is being undertaken by the United States Bureau of Standards to determine the effect of fire on the full-size wall members commonly used in present building construction. The panel furnace in which the tests will be made is practically finished, and the furnace has been given several workouts on a large test panel of fire brick

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $50,000. Architect, Albert Schroepfer, Foxcroft Bldg., S. F. Owner, Martin S. Show. Location, south California west of Gough, covering an area of 55 by 122 feet. Will contain 14 suites of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, hot water supply, oil burning system and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $10,000. Architect, none. Owner, J. V. Campbell, 1040 Bryant street, S. F. Location, northwest corner of Central avenue and Grove street, covering an area of 25 by 75 feet. Will contain six apartments of two, three and four rooms. Interior finish pine, white enamel and redwood. Some hardwood floors. Wall beds. Hot water supply. Bath rooms tile. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $40,000. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner's name not given. Will contain four stores on the first floor and 36 suites of two and three rooms on the upper floors. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water system and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans nearly complete.

SAN FRANCISCO—Apartment house 3 story and base, frame, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, north Clay street west of Hyde. Will contain 12 apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame. Cost not stated. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner's name withheld. Location, north Jackson street near Mason. Will contain six apartments of four rooms and bath. Interior finish pine and redwood. Some hardwood floors. Wall beds. Bath rooms tile. Exterior covered with cement plaster and shiplap. Plans being prepared.

SAN FRANCISCO—Apartment house additions and alterations, frame, $3,000. Architect, O. E. Evans, 2569 Mission street, S. F. Owner, Gustave Schnee. Location, northwest San Jose avenue and 26th street. Work will consist of raising the present building and adding one story. There will be four apartments of three rooms each. New interior trim, plastering, painting, plumbing and electric work will be included. Plans are complete and the work will be done by Day Labor.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $18,000. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner's name withheld. Location, Montell and Piedmont avenues. Will contain twelve apartments of three and four rooms. Interior finish pine, hardwood and white enamel. Some hardwood floors. Steam heat and hot water supply. Oil burning equipment. Wall beds. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architects, Rousseau & Rouseau, 110 Sutter street, S. F. Owner's name withheld. Location, Devisadero and Washington streets. Will contain a number of two ,three and four room apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water circulating system. Bath rooms tile. Wall beds. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

ROSEBURG, ORE. — Apartment house, 4 story and base, brick. Cost not stated. Architect, F. Manson White, Chamber of Commerce Bldg., Portland. Owner, Mayor White. Will contain a number of three and four room suites with private baths and wall beds. Interior finish pine and white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Automatic elevator. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $10,000. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, D. H. McLaughlin, 15th and Broadway. Contractor, John M. Bartlett, 1706 Parker avenue, Berkeley. Contract price, $10,000. Note: Contractor is now taking subfigures.

LOS ANGELES, CAL. — Apartment house, 4 story and base, brick, $34,000. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. O. Head. Contractors, Barkelew & Gould Builders' Exchange, L. A. Contract price, $34,000.

LOS ANGELES, CAL. — Apartment house, 4 and 7 story and base. Class A construction. Cost not stated. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, C. F. Borton, Hibernian Bldg., L. A. Contractor, Al. Nelson, 1812 West 53rd street, L. A., general construction. Southern California Iron and Steel Co., 4th and Modesto streets, L. A., reinforcing steel. Riverside Cement Co., cement. Other contracts to be awarded as the work progresses.

BONDS

FRESNO, FRESNO CO., CAL.—The report of the Fresno County Highway Commission, recommending that an election be called to vote $3,600,000 bonds for a permanent county road system of 441 miles, has been filed with the County Supervisors, who will consider it at their next meeting.

The estimated cost per mile of the paved roads, exclusive of overhead expense and bridges, averages $8,841. The cost of the roads, bridges and overhead expense are show in the report as follows:

Concrete base road	$2,492,730
Gravel base road	540,000
Mountain road	40,000
Bridges, culverts, etc.	200,000
	$3,272,730
Administration, legal expenses, engineering, approximately 10 per cent	327,270
Total	$3,600,000

LINDSAY, TULARE CO., CAL.—The State Engineer has given his approval to the proposed Lindsay-Strathmore Irrigation project, and a bond issue of $1,400,000 will be voted upon within the next few weeks to finance the construction of the system.

Plans prepared by Engineer Stephen E. Kieffer, who has been appointed as chief eengineer of the district, have been approved by Messrs. Quinton, Code & Hill, an engineering firm of Los Angeles, who recommend that the system be constructed under his plans. A date for the election will be set shortly.

JACKSON, AMADOR CO., CAL.—Amador County boosters are making efforts to raise $15,000 for the building of a road from Jackson to Silver Lake. Five thousand dollars have already been raised to finance the construction of the proposed road.

WATSONVILLE, SANTA CRUZ CO., CAL.—An election has been called for June 3rd to vote bonds of $100,000 for a new high school building. The site for the proposed building is now being considered.

PARADISE, BUTTE CO., CAL.—I. E. Goodner has been appointed engineer in charge of the proposed work in the Paradise Irrigation District. Preliminary surveys have already been started. Bonds to finance the work will be sold shortly.

FREPORT, SACRAMENTO CO., CAL.—An election held last week for $7,500 to erect a new school building carried.

MARYSVILLE, YUBA CO., CAL.—Members of the City Board of Education have broached the Supervisors on the plan of erecting an additional school building to relieve the congested condition of the present build-

ings. The matter will be taken up at the next meeting of the Supervisors.

WOODLAND, YOLO CO., CAL.—The $200,000 County Court House bond issue carried at an election held recently. Plans for this building have already been prepared by a San Francisco architect.

RICHMOND, CONTRA COSTA CO., CAL.—Richmond and Berkeley have organized a plan to have a new road constructed and improved that will shorted the distance between the two cities and the interior. W. P. Wheeler of San Pablo is taking an active interest in the proposed project. The proposed highway will shorten the distance between Richmond and the interior towns about eleven miles.

AUBURN, PLACER CO., CAL.—The City Trustees will call an election shortly to raise $25,000 for street paving and repairs.

RIVERSIDE, RIVERSIDE CO., CAL.—The Educational Board has set June 6th as the date to vote bonds of $40,000 for the erection of a new school for the North Side and an additional school for the East Side.

OROSI, TULARE CO., CAL. — An election will be held May 26th to vote bonds of $20,000 for erecting a union high school. An election held last year to vote bonds of $25,000 failed to carry, but it is thought that the coming issue will be favored.

SAN DIEGO, SAN DIEGO CO., CAL.—A bond election will be called shortly to provide funds for the rebuilding of the washed out lower dam on the impounding system of this city and erecting a gigantic new dam to complete the system. This will be known as the Barrett dam. M. M. O'Shaughnessy, City Engineer of San Francisco, has been employed by the San Diego officials to supervise the work.

MODESTO, STANISLAUS CO., CAL.—The County Supervisors have sold the $160,000 bond issue of the Modesto City School District to the State Board of Control on their offer of $171,400, which was $42 less than the proposal of Byrne & McDonnell, San Francisco brokers.

Plans for the buildings to be erected from the proceeds of the sale have been ordered prepared.

BRIDGES, DAMS AND HARBOR WORK

PLACERVILLE, EL DORADO CO., CAL.—Bridge, concrete and steel. Cost not stated. Engineer, A. V. Saph, Rialto Bldg., S. F. Owners, El Dorado County. The County Board of Supervisors at their last meeting appointed Civil Engineer A. V. Saph to prepare plans and specifications for a wagon bridge across the South Fork of the American River near the town of Colona. Bids will be called for on this work when plans are complete.

SAN FRANCISCO—Pier alteration. Cost not stated. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be received until May 18th for furnishing materials and making alterations and addition to Pier No. 38 on the waterfront of the City of San Francisco. The materials to be used in this work shall consist of the requisite quantities of Portland cement and creosoted piles, which will be furnished to the contractor by the Board, yellow fir lumber, iron bark staves, bituminous concrete paving, sand, crushed rock or gravel, reinforcing materials, castings, rail and fastenings, etc. All materials used must be of the best of their respective kinds if not especially specified herein. All materials used in the structures will be subjected to a rigid examination and test, and if found defective, undersized, unsuitable or not as specified, will be condemned and must be immediately removed from the work by the contractor at his expense.

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, steel and concrete. Cost not stated. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. Bids will be received until June 5th at 1 p. m. for furnishing all material and labor for the construction complete of a reinforced concrete bidge of the girder type over the Middle Fork of the Mokelumne River near the town of West Point on the main county road leading from the town of West Point to Mokelumne Hill.

MODESTO, STANISLAUS CO., CAL.—Bridge, reinforced concrete and steel. Cost as follows. Engineers, Consulting Engineers, Leonard & Day, Rialto Bldg., S. F., and County Surveyor, Modesto. Owners, Stanislaus County. All bids received on May 9th for this work have been rejected and new figures will be called for. Bids will be opened at the June session of the Board of Eupervisors. A complete list of the bids received follows: C. E. Cotton, Oakland, $112,397; Howard S. Williams, S. F., $115,760; Manning Bros., Fresno, $116,900; Ernest Green, Modesto, $119,423.70; McLeran & Peterson, S. F., $119,967; Clinton Construction Co., S. F., $124,900; Teichert & Ambrose, Sacramento, $136,780; Worswick Construction Co., Los Banos, $137,500; Collman & Duncan, S. F., $137,640; Seabury B. Peterson Co., S. F., $137,996; Ross Construction Co., Sacramento, $138,870; Messmer & Rice, Los Angeles, $143,013; Peterson & Grier, S. F., $143,900; V. M. Price, S. F., $149,900; Blake Bros. Co., Oakland, $154,000; The Snare & Triest Co., New York, $155,980.

YREKA, SISKIYOU CO., CAL. — Bridge, reinforced concrete. Cost not stated. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, Siskiyou County. The Siskiyou County Board of Supervisors has voted to accept the proposal of the State Highway Commission to draw plans for and supervise the construction of two concrete bridges on the State Highway south of Yreka, and one concrete bridge across Castle Creek south of the city limits of Dunsmuir. The bids for these bridges will be called for in the near future.

LOS ANGELES, CAL.—Bridge construction, $1,000,000. Engineer, Parker, Santa Fe Railroad Co., L. A. Owners, Santa Fe System. The Santa Fe Railway Co. is preparing to expend in the neighborhood of $1,000,000 for the construction of bridges and equipment between San Diego and Los Angeles. The engineering department is at present planning a steel and concrete bridge to cross the San Luis Rey River at Oceanside to cost about $80,000. Superintendent of Bridges Parker is in charge of the work.

LOS ANGELES, CAL.—Culvert, reinforced concrete, $17,561. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Andrew Holloway, 171 South Broadway, Pasadena, submitted the lowest bid at $17,561 for the construction of a reinforced concrete viaduct 212 feet long and 20 feet wide over the ravine, Pacific Electric tracks and Ionia avenue on Western avenue. The bids received were referred to the Road Commission.

CHURCHES

MERCED, MERCED CO., CAL.—Church, 2 story and base, frame, $20,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Presbyterian Church Society. Will contain main auditorium, Sunday school rooms, pastor's study and social rooms. Interior finish pine and ornamental plaster. Central heating system and vacuum cleaning. Art glass windows. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

OAKDALE, STANISLAUS CO., CAL.—Church, 2 story and base, frame, $12,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Oakdale Methodist Church. Will contain main auditorium, Sunday school rooms and study. Interior finish pine and redwood with some ornamental plaster. Art glass windows. Central heating system. Exterior covered with cement plaster. Plans complete and figures being taken.

WHITTIER, LOS ANGELES CO., CAL.—Church, 2 story and base, brick, $45,000 Architect, Paul V. Tuttle, Delta Bldg., L. A. Owners, Friends Congregational Church. Building will cover an area of 95 by 102 feet and will contain a main auditorium, Sunday school rooms, social hall and pastor's study. Interior finish pine and redwood with some white enamel. Art glass windows and central heating system. Exterior covered with cement plaster. Plans are being prepared.

LOS ANGELES, CAL. — Church, 2 story and base. Class A construction, $300,000. Architect, Bertram G. Goodhue, 2 West 47th street, New York City. Owners, St. Vincent's Catholic Church. Location, northwest Figueroa and Adams. Only preliminary plans have been prepared and details of construction cannot be given at this time. The preliminary plans have been approved and further mention will be made of the work.

LOS ANGELES, CAL.—Church, 1 and 2 story and base, frame and plaster, $15,000. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owners, St. James Methodist Episcopal Church. Location, southwest corner of 22nd and Union. Main auditorium will seat 300 people, Sunday school rooms, social hall and pastor's study. Interior finish pine, hardwood and ornamental plaster. Central heating system and vacuum cleaning. Art glass windows. Exterior covered with cement plaster. Plans complete and figures being taken.

GLENDALE, LOS ANGELE CO., CAL.—Church, 1 story and base, brick, $30,000. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owners, Glendale Methodist Church. Will cover a ground area of 80 by 140 feet. Will contain auditorium. Sunday school rooms and social hall. Interior finish pine and hardwood with some ornamental plaster and art glass windows. Central heating system. Exterior faced with pressed brick. Plans being prepared.

COURT HOUSES.

NAPA, NAPA CO., CAL.—Hall of Records, 2 story and basement, reinforced concrete. Cost not stated. Architect, W. H. Corlett, Napa. Owners, Napa County. Will cover an area of 60 by 90 feet. Construction fireproof. Interior finish pine, hardwood and metal. Tile and hardwood floors. Steam heat from central plant in present court house. Special fireproof vaults and metal furniture. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

BURBANK, LOS ANGELES CO., CAL.—City hall, 2 story and base, brick, $12,340. Architects E. R. Farley and F. B. Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Contractor, P. A. Farley, Burbank. Contract price, $12,340.

FACTORIES AND WAREHOUSES

FRESNO, FRESNO CO., CAL.—Shop and garage, 1 story and base, brick, $3,000. Architect, none. Owner, R. B. Sibley & Co., Fresno. Location, 1107 J street. Designed for a machine shop and garage. No interior finish. Special machinery. Exterior faced with stock brick. Plans complete and work to be done by Day Labor.

MODESTO, STANISLAUS CO., CAL.—Packing house, 1 and 2 story and base, frame and corrugated iron, $6,000. Architect, G. J. Ulrich, 419 Sycamore St., Modesto. Owner, A. B. Shoemake. Location, 9th and C streets. Will cover a considerable ground area. No interior finish. Special machinery. Exterior covered with corrugated iron. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Factory, 1 story and base, frame, $10,000. Architect, none. Owners, Alumium Products Co., La Grange, Ill. Location, East Oakland. This building will be the first unit of a large plant. Only preliminary plans have been prepared and further mention of the work will be made in the next issue.

SEATTLE, WASH. — Refrigeration equipment, $65,000. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids have been called for by the Port of Seattle Commission Bell Street Dock, to be opened May 24th, for the installation of the refrigeration equipment and electric work in the apple storage warehouse. The improvement will be complete for the seven floors, and include the ammonia compressor and auxiliary equipment, piping, etc.

Contracts Awarded

OXNARD, VENTURA CO., CAL.—Warehouse, 2 story and base, brick, $10,000. Architects, Krempel & Erkes, enne Bldg., L. A. Owners, American Beet Sugar Co. Contractors, Leonard & Peck, H. W. Hellman Bldg., L. A. Contract price, $10,000.

LOS ANGELES, CAL.—Factory, 2 story and base. Class C construction, $25,000. Architect, J. M. Cooper, 330 McGarry street, L. A. Owners, Van Vorst & Berman, 1333 East 5th street, L. A., Contractors, The Mta Planning Mill Co., 850 McGarry street, L. A. Contract price, $25,000.

LOS ANGELES, CAL.—Factory, 1 story and base, brick, $10,000. Architect, J. Schultz, Wright and Callender Bldg., L. A. Owners, Southern California Box Co. Contractor, J. A. Cook, Baker-Detwiler Bldg., L. A. Contract price, $10,000.

FIRE HOUSES AND JAILS

Contracts Awarded

PATTERSON, STANISLAUS CO., CAL.—Jail, 1 story and base, reinforced concrete, $3,892. Architect, none. Owners, Stanislaus County. Contractors, Johnston Bros., Tracy. Contract price, $3,892.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $6,500. Architects, Foulkes & Hildebrand, Crocker Bldg., S. F. Owner, J. W. McCarthy. Location, Balboa between 14th and 15th avenues. Will contain two modern flats of five and six rooms with baths. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Mantels tile or brick. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,700. Architect, none. Owner, Mrs. Lulu H. Schutt, 619 12th avenue, S. F. Location, west 15th avenue south of Balboa. Will contain two flats of five rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $7,000. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, G. B. Schiaffino. Location, south Green east of Pierce. Will contain two large residential flats. Basement garage and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 5, 2 story and base, frame, $5,000 each. Architect, none. Owner, H. C. Keenan, 300 Webster street, S. F. Location, east 26th avenue south of Clement. Each building will contain two modern flats of five and six rooms. Basement garages. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster, brick veneer and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, W. J. Cuthberton, 328 Montgomery street, S. F. Owner, J. H. Plattner, 2104 Market street, S. F. Location, east 8th avenue north of Lawton. Will cover an area of 21 by 55 feet and will contain two flats of five and six rooms. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with brick veneer and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, John N. Christiansen. Location, east 6th avenue north of Kirkham. Will contain two flats of five and six rooms, bath and basement garage. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $3,000. Architect, none. Owner, M. McLean, 590 5th avenue, S. F. Location, east 5th avenue north of Fulton, covering an area of 25 by 50 feet. Will contain two flats of five and six rooms, baths and basement garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, none. Owner, William Rucker, 15th street near Castro. Location, south 15th near Castro. Will contain two flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Lumber for the Isthmus.

Authorities on the Isthmus forwarded requisitions to Washington several weeks ago for 8,070,000 feet of miscellaneous lumber for building purposes. Another requisition for 13,799,640 feet has been forwarded, but bids covering this item will not be called for until Congress provides and makes appropriation for the necessary new quarters on the Isthmus.

Army Work Authorized.

The quartermaster general has directed work at Army posts as follows:

Fort Wadsworth, N. Y., extending water and sewer system, bids to be called for separately.

Fort Stevens, Ore., one 4-set bachelor officers' quarters.

Fort Sill, Okla., two double N. C. O. quarters, garage for motor ambulance, shelter for fire apparatus, and shelter for road roller and truck.

Boise, Idaho, Supplementary.

The supervising architect, Treasury Department, Washington, D. C., has issued an advertisement calling for supplementary bids for the construction of the U. S. post office at Boise, Idaho, to be opened in his office at 3 p. m. May 31, 1916.

Public Buildings.

Another attempt to deal with the abuses in public building appropriations appears in a bill requiring all public building bills to be submitted to the Secretary of the Treasury for investigation and report as to whether proposed buildings and sites are needed

and the expenditure justified, and as to the lowest cost at which buildings found to be necessary may be erected with economy and efficiency." The Treasury Department has natural jurisdiction in that it includes the office of the supervising architect. The bill would give it authority to have an investigation made covering the population of the town or city applying for a building, the amount of Federal business transacted there, and the question whether it would be more economical to rent than to build. The department might be relied upon to attach due weight to the consideration which certain representatives have been emphasizing in their pleas: That an ornate Roman structure costing a quarter of a million in a town where the total value of the business buildings hardly comes to more has a certain worth in typifying the dignity of the government and feeding public patriotism. The plan is more acceptable than previous proposals for a special commission, and it is to be hoped it will get out of the committee on public buildings and grounds.

Cordova, Alaska, Steel Towers.

Nicholas Fleiness, of 1210 1st avenue, Seattle, Wash., has the contract at $31,-350 for furnishing two 300-foot steel towers for radio station, Cordova, Alaska.

Denver, Colo., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for installing lighting fixtures in the U. S. post office at Denver, Colo.:

Herman Andrae Electrical Co., Milwaukee, Wis., $1,550; 150 days.

Denver Electrical Co., Denver, Colo., $2,262; 90 days.

Reading Electric Co., Reading, Pa., $2,422; 90 days.

Strang Electric Co., Philadelphia, Pa., $1,757; 120 days.

The Silver State Electric Co., Denver, Colo., $1,505; 75 days.

Charles N. Shannon, Denver, Colo., $1,690; 60 days.

Cement for Reclamation.

The reclamation service is asking for bids for furnishing 115,000 barrels of Portland cement, f. o. b. cars at the works of the bidder. The bids will be opened at the office of the reclamation service, 424 Federal Building, Denver, Colo., on May 25.

Great Falls, Mont., Repairs.

The following bids were received by the custodian, U. S. post office, Great Falls, Mont., for repairs in the above building:

M. M. Rankin, Great Falls, Mont., $452; 21 days.

Vangorder & Co., Great Falls, Mont., $497; 30 days.

Theriault Contracting Co., Brooklyn, N. Y., $930; 60 days.

Canal Structures.

The following bids were received by the U. S. Reclamation Service, Malta, Mont., for first unit structures, Bowdoin Canal system, Milk River project, Mont.:

Bid 1. The Security Bridge Co., Minneapolis, Minn.

2. John S. Penson, P. O. Box 827, Williston, N. Dak

3. Rolla Barnes, Malta, Mont.

4. Montgomery & Son, Chinook, Mont.

5,600 cu yds excavation, class 1—Bid 1, 40c; 2, 38c; 3, 40c; 4, 42c.

400 cu yds do, class 2—Bid 1, 70c; 2, $1; 3, 60c; 4, 80c.

10 cu yds do, class 3—Bid 1, $1.50; 2, $1.75; 3, $1.10; 4, $1.50.

2,600 cu yds backfill—Bid 1, 25c; 2, 36c; 3, 18c; 4, 21c.

500 cu yds puddling—Bid 1, 75c; 2, 75c; 3, 50c; 4, $1.05.

290 cu yds concrete—Bid 1, $14.50; 2, $12.75; 3, $14; 4, $15.35.

17,000 lbs placing reinforced steel—Bid 1, 1.75c; 2, 2.6c; 3, 2c; 4, 2c.

520 sq yds dry paving—Bid 1, $2; 2, $1.75; 3, $1; 4, $2.40.

200 sq yds rubble concrete paving—Bid 1, $2.50; 2, $1.95; 3, $6; 4, $3.50.

Laying Vitrified Pipe.

920 lin ft 15 by 18 in diam—Bid 1, 45c; 2, 82c; 3, 48c; 4, 60c.

320 lin ft, 24 in diam—Bid 1, 60c; 2, 95c; 3, 75c; 4, 80c.

5,000 lbs erecting structural steel — Bid 1, 1.75c; 2, 4c; 3, 1.5c; 4, 3c.

28,000 ft, B. M., erecting lumber, for bridges—Bid 1, $18; 2, $20; 3, $12; 4, $17.

22,000 ft, B. M., do, for turnouts, etc. —Bid 1, $20; 2, $25; 3, $20; 4, $18.50.

Total—Bid 1, $12,940; 2, $13,083.40; 3, $14,001.60; 4, $14,083.50.

Keyport, Wash., Steel Towers.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing two 400-foot steel towers at the Pacific coast torpedo station, Keyport, Wash.:

Item 1, net price for all work complete; 2, net price per pound of steel in towers, complete, in accordance with plans and specifications, including anchorage and reinforcement; 3, net price for all work complete, in accordance with plans and specifications, except that structural and reinforcing steel may be taken from stock or warehouses; 4, net price per pound for steel in towers, including anchorage and reinforcement, in accordance with plans and specifications, except that structural and reinforcing steel may be taken from stock or warehouse; 5, net price for each of the following fittings installed for two 400-foot radio towers, complete: A, insulators; B, winches and rope; C, lightning protection; D, snatch blocks, eyebolts, and hooks 6, net price for foundations for towers.

Penn Bridge Co., Bond Building, Washington, D. C., item 4, 9.7c; 5, $2,-725.

The North West Steel Co., Portland, Ore., item 3, $16,711; 4, 7.35c; 5, $1,404.

Washington Construction Co., Northern Bank & Trust Co. Building, Seattle, Wash., item 1, $54,833; 2, 10.315c; 3, $54,833; 4, 10.315c; 5, $1,900; 6, $4,700.

W. N. Concannon Co., San Francisco, Cal., item 1, $58,774.

Grant Fee, 2440 16th street, San Francisco, Cal., item 1, $52,500; 2, 6.75c; 3, $54,000; 4, 7c; 5, $2,165; 6, $11,515.

Martin & Dugan Construction Co., Northern Bank Building, Seattle, Wash., item 3, $44,500; 4, 7.25c; 5, $1,805; 6, $6,100.

Pittsburgh-Des Moines Steel Co., Curry Building, Pittsburgh, Pa., item 1, $44,100; 2, 7.5c; 3, $44,400; 4, 7.5c; 5, $1,540.

Chicago Bridge & Iron Co., 37 W. Van Buren street, Chicago, Ill., item 3, $60,-200.

California Construction Co., 644 Call Building, San Francisco, Cal., item 1, $52,500; 2, 8.5c; 3, $55,500; 4, 9.1c; 5, $225; 6, $7,500.

McCrae & Layaz, 1278 Sacramento street, San Francisco, Cal., item 1, $48,-744; 2, volt connection 8c rivet connection 8.2c; 5, $1,900, 6, $7,000.

HALLS AND SOCIETY BUILDINGS

SAN FRANCISCO — Association building, 5 or 6 story and base. Class A construction, $150,000. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, Young Women's Christian Association. Two down-town sites are now under consideration and a selection will be made pending the outcome of the present campaign to secure a fund for building purposes amounting to $550,000. If the campaign is successful a building containing offices, a gymnasium and living quarters will be erected. Further mention will be made of the work.

SAN FRANCISCO—Golf and country club, 1 and 2 story, frame, $50,000. Architect, George W. Kelham, Sharon Bldg., S. F. Owners, San Francisco Country Club. Will contain banquet room, locker room, baths and special rooms for ladies. Interior finish pine and hardwood. Hardwood floors. Central heating system and hot water supply. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

VISALIA, TULARE CO., CAL.—Lodge hall, 2 story and base, brick. Architect's name not given. Owners, Visalia Moose Hall Association. D. L. Barnhart, Visalia, was the lowest bidder at $9,100 for erecting the new Moose home. Other bids were H. K. Houghman, $10,832.37; Toothacre & Brown, $11,464; Charles D. Stait, $11,550; and Trewhitt & Shields, $12,000. The building committee consists of Earl A. Bagby, chairman; Walter Collins and Scott Painter. Architect, Eugene Mathewson of Fresno prepared the plans, which call for a two story frame structure.

Contracts Awarded.

SACRAMENTO, CAL. — Lodge hall heating, 4 story and base. Class A construction. Cost as follows. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Scottish Rite Hall Association. Contractors, Ideal Heating Co., 1892 Folsom street, S. F. Contract price,

HOSPITALS

SACRAMENTO, CAL.—Hospital ward, 2 story and base, hollow tile and reinforced concrete, $37,477. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. The Mathews Construction Co., Sacramento, presented the lowest figure for the construction of this building and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

LOS ANGELES, CAL.—Hospital addition, 3 story and base, reinforced concrete, $40,000. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Los Angeles Hospital. Location, Trinity street near Washington. Will contain 27 private rooms with baths and accommodations for the nurses. Interior finish hardwood and tile. Hard-

wood floors. Hot water supply and vacuum cleaning. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

SAN RAFAEL, MARIN CO., CAL.—Hospital cottage, 1 story, frame. Architect, none. Owners, Marin County. Contractor, Joseph Williams, San Rafael. Contract price, $2,590.

BAKERSFIELD, KERN CO., CAL.—Hospital addition, 1 story, frame, $3,744. Architect's name not given. Owners, Kern County. Contractor, P. W. Faynter, Bakersfield. Contract price, $3,744.

HOTELS

Contracts Awarded.

SAN PEDRO, LOS ANGELES CO., CAL.—Hotel, 3 story and base, brick, $27,500. Architect, none. Owner, Dr. R. W. Hill. Contractors, Anderson & Silva, 619 Bacon street, San Pedro. Contract price, $27,500.

IRRIGATION PROJECTS

ANDERSON, SHASTA CO., CAL.—Irrigation project. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The directors of the Anderson-Cottonwood Irrigation District have awarded James Willison, Halfmoon Bay, the contract for digging the the tunnel at the Redding intake, the bid being $29,795. Willison was also awarded the contract for digging the main canal from the outlet of the tunnel to Panorama Point, midway between Anderson and Cottonwood. The bid was $76,000. To F. W. Nielson was awarded the contract for building all bridges. The bids totaled, roughly speaking, $15,000. Bids for cement and metal flumes are yet to be passed on. New bids were advertisd for the construction of all laterals, the dam, Churn Creek siphon, side gates, end gates, drops and the main canal south from Panorama Point. The new bids will be opened on May 29th.

ANDERSON, SHASTA CO., CAL.—Metal flume. Cost as follows. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The bid of the California Corrugated Culvert Co., Monadnock Bldg., S. F., for metal flume to be used in the construction of the Anderson-Cottonwood Irrigation system was rejected by the board of directors at their last meeting. The bid ranged from 45c to $2.20 per lineal foot. New bids will be called for on this work.

TERRA BELLA, TULARE CO., CAL.—Irrigation project. Cost not stated. Engineer, Stephen E. Kieffer, Terra Bella. Owners, Terra Bella Irrigation District. At the last meeting of the board of directors of the Terra Bella Irrigation District Stephen E. Kieffer was named as the chief engineer for the district, and the board instructed Mr. Kieffer to proceed with the drawing of plans and specifications for the pumping project. The contract with Mr. Kieffer calls for services as chief engineer during the construction period covering the installation of the first unit, which, it is estimated, will require more than a year to build. The plans and specifications are well under way, Mr. Kieffer having done some preliminary work on same. Further mention will be made of this work.

SAN DIMAS, LOS ANGELES CO., CAL.—Irrigation project, $350,000. Engineers name not given. Owner, M. L. Hazzard, San Dimas. M. L. Hazzard has applied to the State Water Commission to appropriate 2,000 second feet of water in San Dimas Canyon, tributary to the San Gabriel River, for irrigation work. In the proposed improvement there will be a canal four miles long, a concrete diversion dam, a storage reservoir impounding 15,000 acre feet, the dam to be 150 feet high, 550 feet on top and 25 feet at bottom with a width on top of 7 feet, said dam to be of the arch principle, concrete construction.

RAILROAD CONSTRUCTION AND EQUIPMENT

SACRAMENTO, CAL.—Shop building, 1 story, steel and brick, $55,000. Engineer, Chief Engineer Barlow, Flood Bldg., S. F. Owners, Southern Pacific Co. Extensive alterations will be made to the present roundhouse. Work will include structural steel, brick, concrete work and machinery. Plans are complete and work is being done by Day Labor.

Contracts Awarded

FRESNO, FRESNO CO., CAL.—Passenger station, 1 and 2 story, reinforced concrete, $25,000. Architect, Architectural Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Contractor, Bert T. Owsley, Crossley Bldg., S. F. Contract price, $25,000.

RESIDENCES

SAN FRANCISCO — Residences, 3, 2 story and base, frame, $5,000 each. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, east 28th avenue north of California. These houses will contain seven rooms, baths and sleeping porches. Basement garages are also provided. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, W. G. Gilmore. Location, Edgwood avenue. Will contain eight rooms, two baths and sleeping porch. Interior finish hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residences, 4, 2 story and base, frame, $5,000 each. Architect, none. Owner, J. V. Campbell, 1040 Bryant street, S. F. Location, west Central avenue north of Grove. Each dwelling will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 1 story and base, frame, $2,500. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, William Leach, 1559 9th avenue, S. F. Location, east 24th avenue north of Judah. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame. Cost not stated. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, Jean Rey. Location, 14th avenue south of Le Conte. Will contain six rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Tile bath room. Exterior covered with shiplap and rustic. Plans being prepared.

SAN FRANCISCO—Residence, 2 story and base, frame, $9,000. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, east Commonwealth avenue north of Geary. Will contain ten rooms, three baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms finished in tile. Hot water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $9,000. Architects, Foulkes & Hildebrand, Crocker Bldg., S. F. Owner, Dr. A. S. Musante. Location, Jones, between Vallejo and Green. Will contain nine rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 2 story and base, frame, $10,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Michelson. Location, Seacliff. Will contain eight rooms, three baths and basement garage. A large sun room will be located on the roof. Interior finish gum, pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Hot water heater. Bath rooms tile. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,250. Architect, none. Owner, Charles F. Fallmer, 170 Pearl street, Oakland. Location, south Elwood west of Valle Vista. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Tile wainscot in bath room. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, E. L. Jenks, 2977 Piedmont avenue, Oakland. Location, north Woolsey west of Benvenue. Will contain seven rooms, bath

nd sleeping porch. Interior finish pine. ardwood and white enamel. Hardwood oors. Furnace heat and open fire laces. Mantels tile and brick. Bath oom tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, 20,000. Architects, Milwain Bros., Alany Bldg., Oakland. Owner, William . Volkmann. Location, Crocker Terace. Will contain fifteen rooms, sevral baths and sleeping porches. Inteior finish hardwood and white enamel. Hardwood floors throughout except in he bath rooms. Central heating sysem and open fire places. Mantels tile, narble and brick. Bath rooms tile and quipped with showers. Oil burning ystem. Hot water circulating system. Vacuum cleaning. Exterior faced with ement plaster. Plans complete and igures being taken.

OAKLAND, CAL.—Residence, 2 story nd base, frame, $6,000. Architect, C. . Skidmore, Hearst Bldg., S. F. Ownr's name withheld. Location, Montell ear Piedmont. Will contain eight ooms, bath and sleeping porch. Inteior finish pine, hardwood and white namel. Hardwood floors. Furnace eat and open fire places. Mantels tile nd brick. Bath room tile. Automatic vater heater. Exterior covered with ement plaster. Plans being prepared.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, 5,000. Architects, Milwain Bros., Alany Bldg., Oakland. Owner, C. De F. Case. Location, Blair avenue. Will contain seven rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. M. Rathburn, Hayward. Location, east 108th avenue north of Vollaire. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, George H. Johnson, 5457 Vicente avenue, Oakland. Location, north Pleasant Valley avenue east of Moraga. Will contain five rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel Hardwood floors. Open fire places and furnace heat. Mantels tile and brick Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, W. H. Higgins, 2477 94th avenue, Oakland. Location, west 83rd avenue north of Plymouth. Will contain five rooms, bath and sleeping porch. Interior finish pine. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $1,500. Architect, none. Owner, W. S. Young, 523 63rd street, Oakland. Location, west San Pablo avenue north of Jones. Each house will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, A. R. Morris, 914 Kains avenue, Oakland. Location, west Pomona north of Marin. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $2,000. Architect, none. Owner, Dr. George S. Pittock, 2139 Fulton street, Berkeley. Location, High Court and Oak. Will contain five rooms and bath. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, east Capell street north of Cleveland. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none Owner, Eunice Wiser, 5601 Edgerly street, Oakland. Location, north Pleasant Valley east of Moraga. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 3, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, J. C. O'Connor. Location, east Golden Gate avenue south of Acadia. Each house will contain eight rooms, bath and sleeping porch. Interiors finished in hardwood, pine and white enamel. Hardwood floors throughout except in the bath rooms. Furnace heat and open fire places. Mantels tile and brick. Tile floors and wainscot in bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Claude B. Barton, First Trust Bldg., Oakland. Owners, O'Connor & Elrod. Location, Rockridge Park. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,100. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner's name withheld. Location, east Benvenue avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame. Cost not stated. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, John Hood. Location, Santa Barbara avenue north of Indian Rock Will contain seven rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owners, Banning & Stewart. Location, Palmera Court. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,500. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owners, Banning & Stewart. Location, Rockridge. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN JOSE, SANTA CLARA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, F. D. Wolfe, Bank of Italy Bldg., San Jose. Owner, C. S. Allen. Location, Palm Haven Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BRENTWOOD PARK, LOS ANGELES CO., CAL.—Residence, 2 story and base. frame. Cost not stated. Architect, Frank T. Kegley, Consolidated Realty Bldg., L. A. Owner, Lawrence Phipps. Location, Brentwood Park. Will contain 22 rooms, 5 baths and sleeping

porches. Interior finish hardwood, white enamel and cedar. Three furnaces. Hardwood floors throughout. Bath rooms tile. Seven open fire places and tile or brick mantels. Hot water circulating system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $9,000. Architect, none. Owner, W. W. Rednall, 2500 Filbert street, S. F. Location, north Green east of Lyon. Will contain 11 rooms, three baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Furnace heat and hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with rustic and brick veneer. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $5,000. Architect, none. Owner, W. W. Rednall, 2500 Filbert street, S. F. Location, east Lyon north of Green. Will contain 7 rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and brick veneer. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,00. Architect, M. I. Diggs, Syndicate Bldg., Oakland Owner, Walter H. Packard. Location, east Capell north of Cleveland. Will contain nine rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Ole Kolen, 3127 Bruce street, Oakland. Location, west Maybell south of Porter. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences, 12, 1 story and base, frame, $2,000 each. Architect, none. Owner, R. C. Hillen, 430 Haight avenue, Alameda. Location, Aston, Francisco, Short and Derby streets. Each dwelling will contain five rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic, cement plaster and shingles. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences, 2, 1 story and base., frame, $2,250 each. Architect, none. Owner, J. C. Pfrang, 5487 Claremont avenue, Oakland. Location, north Derby east of California. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and brick or tile mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, T. L. Spanggaard, 1199 75th avenue, Oakland. Location, west 75th avenue south of Rudsdale. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SANTA CRUZ, SANTA CRUZ CO., CAL.—Residence, 1 story and base, frame, $3,200. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, W. H. Heywood. Will contain seven rooms, bath and sleeping porches. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architects, Marston & Van Pelt, Chamber of Commerce Bldg., Pasadena. Owner, A. L. Garford. Location, Hillcrest avenue. Will contain twelve rooms, three baths and sleeping porch. A separate garage will be erected. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system and open fire places. Vacuum cleaning and hot water supply. Bath rooms finished in tile. Mantels tile and brick. Exterior faced with cement plaster. Plans being prepared.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $40,000. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Location, Arroyo Seco. Will contain seventeen rooms and five baths. Separate garage and stables. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except the baths, which will be finished in tile. Central heating system, hot water supply and vacuum cleaning. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

EUREKA, HUMBOLDT CO., CAL.—Apartment house, 3 story and base. Class C construction. Cost not stated. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owners, Daly Bros., Eureka. Location, Hillsdale and E streets. Will contain a number of two, three and four room apartments. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans complete and figures being taken.

Contracts Awarded

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $21,545. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Contractor, Peter Hall, 769 North Marengo avenue, Pasadena. Contract price, $21,545.

ATHERTON, SAN MATEO CO., CAL.—Residence, 1 story, frame, $25,000. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. Ellen A. Fife. Contractor, Charles A. Brady, Palo Alto. Contract price, $25,000.

SCHOOLS

MANTECA, SAN JOAQUIN CO., CAL.—School, 1 story, frame, $6,000. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owners, Manteca School District. Will contain two class rooms. Interior finish pine. Stoves for heating. Exterior rustic. Plans being prepared.

ETTERSBURG, HUMBOLDT CO., CAL.—School, 1 story, frame. Cost not stated. Architect, none. Owners, Wilder School District. Designed for a district school and will contain two class rooms. Interior finish pine and redwood. Exterior rustic. Plans being figured and bids open June 1st. Plans can be secured from Fred J. Etter, Ettersburg.

McFARLAND, KERN CO., CAL.—School, 1 story, brick. Cost not stated. Architect, J. M. Saffell, New Fish Bldg., Bakersfield. Owners, McFarland School District. Will contain two class rooms. Interior finish pine. Stoves to be used for heating. Exterior faced with stock brick. Plans being prepared.

CAMPBELL, SANTA CLARA CO., CAL.—School, 1 story, frame, $20,000. Architect, F. D. Wolfe, Bank of Italy Bldg., San Jose. Owners, Campbell School District. Will contain four class rooms, assembly hall and teachers' room. Interior finish pine. Some maple floors. Central heating system. Exterior covered with cement plaster. Plans are being prepared.

REDWOOD CITY, SAN MATEO CO., CAL.—Schools, 2, 1 story, hollow tile. Cost not stated. Architect, N. W. Sexton, Merchants' National Bank Bldg., S. F. Owners, Redwood City School District. Each building will contain four class rooms. Interior finish pine with maple floors. Slate blackboards. Exteriors faced with cement plaster. Revised plans complete and figures being taken. Bids will be opened on June 2nd. Plans can be secured from the architect.

CULVER CITY, LOS ANGELES CO., CAL.—School, 1 and 2 story and base, brick and hollow tile, $55,000. Architect, Oliver P. Dennis, Fay Bldg., L. A. Owners, Culver City School District. Will contain eight class rooms, assembly hall and departments for domestic science and manual training. Interior finish pine with maple floors. Central heating system and vacuum cleaning. Exterior faced with cement plaster. Plans are being prepared.

DOWNEY, LOS ANGELES CO., CAL.—School, 1 story and base, hollow tile. Cost not stated. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, Downey School District. Will cover an area of 136 by 145 feet and contain eight class rooms, auditorium and library. Interior finish pine with maple floors in the class rooms. Central heating system, oil burning furnace and vacuum cleaning. Exterior faced with cement plaster. Plans are complete and figures being taken. Bids close May 23rd.

Contracts Awarded

HILLSBOROUGH, SAN MATEO CO., CAL.—School, 1 story, frame, $13,000. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Contractors, McLeran

& Peterson, Sharon Bldg., S. F. Contract price, $13,000.

SEWERS, STREET WORK & WATER SYSTEMS

DALY CITY, SAN MATEO CO., CAL.—Street and sewer work. Cost not stated. Engineer, City Engineer, Daly City. Owners, Daly City. Bids will be received until May 22nd at 8 p. m. for street improvements under the following resolutions: That Alpha, Beta, Como, Lake and Gambetta avenues be graded between the property lines and from the east line of Mission road to the east boundary line of Vista Grande Tract No. 2; also that Mission road be graded between the east curb line and the east property line and from a line 115.31 feet south of the south line of Gambetta avenue to a line 305.73 feet north from the north line of Alpha avenue. Also that 4-inch, vitrified, salt-glazed, ironstone pipe lateral sewers, with Y's, be constructed in each of said avenues connecting with and running from the existing main sewer in the center line thereof to the curb lines on either side to the number of one such lateral sewer for each separate lot or parcel of land fronting on each of said avenues. Also that cement concrete sidewalks 6 feet wide and combination cement concrete gutters 2 feet wide, and armored concrete curbs be constructed on both sides of each of said avenues from the Mission road to the east boundary line of the aforesaid tracts. Also that cement concrete sidewalks approximately 6½ feet wide and granite curbs be constructed on the east side of Mission road from a line 115.31 feet south from the south line of Gambetta avenue to a line 305.73 feet north from the north line of Alpha avenue. Also that combination cement concrete gutters and armored concrete curbs be constructed thereon at the termination of each of the avenues aforementioned, on the curb return arcs at such terminations. Also that an asphaltic concrete pavement consisting of a 4-inch cement concrete base and 1½ inch asphaltic concrete surface be constructed in the roadway of each of the avenues. Also that an asphaltic concrete pavement consisting of a 4-inch cement concrete base and 1½-inch asphaltic surface be constructed on Mission road at the termination of each of the avenues from the east curb line of said road and the east boundary line thereof and between the gutter lines on either side.

REDWOOD CITY, SAN MATEO CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. At the last meeting of the County Supervisors County Engineer Neuman presented plans and specifications for one mile of paving on Mission road at the Holy Cross fill. The plans, after being amended so as to reduce the width of the road from 25 feet to 18 feet, were accepted, and the clerk was instructed to advertise for bids. Plans may be had from the County Clerk.

SAN RAFAEL, MARIN CO., CAL.—Road improvement, $4,000. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors County Surveyor Richardson was instructed to make surveys and prepare plans for widening the road on the Bolinas slope of the summit to the head of the bay, so as to make the road wider and safer. Surveyor Richardson was also instructed to prepare specifications for widening and improving the coast road north of Pt. Reyes Station.

SANTA ROSA, SONOMA CO., CAL.—Road materials. Cost as follows. Engineer, City Engineer, Santa Rosa. Owners, City of Santa Rosa. At the City Council's last meeting the street committee was authorized to purchase 8 tons of asphaltum at $11.25 f. o. b. San Francisco and $2.60 freight per 100 pounds, and 30 yards of No. 2 crushed rock to be used on Humboldt street from 5th to Johnson in making an experimental paving surface. The property owners are to pay for the asphalt and the city will furnish the rock and do the work.

FAIRFIELD, SOLANO CO., CAL.—Street improvements, culverts, etc. Cost not stated. Engineer, City Engineer, Fairfield. Owners, City of Fairfield. Bids will be received until May 23rd for furnishing the labor and materials for the street work to be done in and upon the public streets of the Town of Fairfield by the grading and paving of the same and the installation of the necessary culverts and five concrete bridges, as contemplated under a recent bond issue of said town.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. At the last meeting of the County Supervisors relative to the Morro Creek road extension it was ordered that bids be advertised calling for the excavating of about 12,500 cubic yards of unclassified material and the grading of the road. The bids will be opened on June 6th. Plans may be had from the City Clerk.

LOS ANGELES, CAL.—Street improvement, $11,745. Engineer, County Surveyor, L. A. Owners, Los Angeles County. J. Hein, 511 Stimson Bldg., L. A., was the lowest bidder at $11,745 for constructing oiled macadam paving and concrete curb on 1.35 miles of 10th street and Antelope avenue, Lancaster, in Road Improvement District No. 93.

DUNSMUIR, SISKIYOU CO., CAL.—Street paving. Cost not stated. Engineer, Town Engineer, Dunsmuir. Owners, Town of Dunsmuir. Plans have been approved and bids have been ordered received by the Town Trustees up to May 22nd for the paving of Florence avenue. Plans may be had from the Town Clerk at Dunsmuir.

STOCKTON, SAN JOAQUIN CO., CAL.—Road construction. Cost not stated. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Bids will be received up to June 6th at 10 a. m. for improvement work on the New Hope Landing road from the New Hope Landing bridge in an easterly direction a distance of approximately 2½ miles.

MERCED, MERCED CO., CAL.—Storm water sewers. Cost not stated. Engineer, City Engineer, Merced. Owners, City of Merced. At the last meeting of the City Trustees Engineer Martin submitted plans and specifications for a proposed drainage system to carry off the storm waters from the streets west of R street. At the plans provide for the establishment of grades, the construction of a canal and the purchase of rights-of-way, the report was referred back to the engineer for an estimate of the probable cost of the system.

CALEXICO, IMPERIAL CO., CAL.—Water system reconstruction. $90,000. Engineer, H. W. Blaisdell, Calexico. Owner, City of Calexico. Consulting Engineer H. W. Blaisdell has been instructed to prepare plans and specifications for the reconstruction and enlargement of the city water system and city pumping plant. This part of the work will be rushed as soon as construction work is under way on the reservoirs, pump house, etc. Lloyd Prewitt is the water and street superintendent.

EVERETT, WASH.—Water system, $500,000. Engineers, Burns & McDonnel, Kansas City, Mo. Owners, City of Everett. Bids have been ordered up to June 5th for the construction of the proposed waterworks system. Separate bids will be received (1) for construction of a dam and headworks, four tunnels, laying and furnishing of cast iron pipe and construction of 25 miles of wood stave pipe; cost about $200,000; (2) furnishing and laying of about 20 miles of wood stave pipe; cost about $200,000; (3) furnishing and laying of 27,000 feet of riveted or Matheson joint steel pipe; cost $100,000. Plans may be secured from Louis Lesh, City Clerk at Everett.

PALO ALTO, SANTA CLARA CO., CAL.—Street paving, etc. Cost as follows. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The following bids were received by the City Trustees at Palo Alto, Santa Clara County, for constructing approximately seven miles, 1,275,754 square feet of street paving. Bids were taken under advisement until May 11th, when a contract will probably be awarded to the lowest bidder. Following is a complete list of the bids received: F. R. Ritchie, Chronicle Bldg., S. F., $134,902; Paul & Caldwell, Stockton, $142,679; Clark & Henery, Ochsner Bldg., Sacramento, $146,378; Blanchard & Ehrhart, 660 Market, S. F., $147,630; Sonnicksen & Bryant, Palo Alto, $148,604; Coast Construction Co., L. A., $149,265; T. W. McClenahan, S. F., $150,388; Ransome-Crummey Co., Oakland, $152,247; Johnson-Shea Co., Central Bank Bldg., Oakland, $154,009; City Street Improvement Co., 166 Geary, S. F., $169,956; McGilivray Construction Co., Sacramento, $177,166; John W. McDonald, Jr., San Jose, $178,005; Peterson & Grier, 62 Post street, S. F., $183,292.

REDWOOD CITY, SAN MATEO CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor Neuman, Redwood City. Owners, San Mateo County. Bids will be received until June 5th at 10 a. m. for the construction of a portion of the Mission road beginning at the State Highway and extending in a southeasterly direction for a distance of 0.626 miles, located in the First Road District.

RICHMOND, CONTRA COSTA CO., CAL.—Sewers, etc. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received until May 22nd at 8 p. m. for construction of 6-inch, salt-glazed, vitrified pipe sewers, manholes of brick and concrete, with cast iron rims and covers; lampholes of vitrified, salt-glazed sewer pipe, with cast iron rims and covers; and Y branches of standard, salt-glazed, vitrified sewer pipe, be constructed on the following streets: Potrero, Stockton, State, Fall and

Huber avenues, 41st 40th, 43rd, 45th, 47th, 49th and 52nd streets.

RICHMOND, CONTRA COSTA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received on May 22nd at 8 p. m. for street improvements under the following resolution: That a portion of San Pablo avenue 26 feet in width, throughout its entire length including all intersections and terminations therein contained, be graded to the official lines and grades; paved to the width of 20 feet with a 5-inch cement concrete base, a bitulithic wearing surface 2 inches in thickness, with a bitulithic flush coat and having shoulders of broken rock 4 inches in thickness and 3 feet wide on each side of said paving. That an approach, graded to the official lines and grades, with paving and shoulders of the character herein described, be constructed in the west half of San Pablo avenue in and adjacent to the intersection therewith of Macdonald avenue. That corrugated iron culverts with concrete catchbasins and cast iron grates be constructed across San Pablo avenue.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received until May 22nd at 8 p. m. for sewer construction ordered under the following resolutions: That 6-inch, salt-glazed, vitrified pipe sewers be constructed as follows: In 35th, 36th, 37th, 38th, 39th and 40th streets respectively, between the north line of Cutting Boulevard and the south line of Wall avenue. In Stege avenue and 34th street respectively, between the north line of Cutting Boulevard and the south line of South street. In Beck avenue and the direct extension east thereof, between the center line of 35th street and the southeast line of South street. That manholes of brick and concrete with cast iron rims and covers, lampholes of vitrified, salt-glazed sewer pipe with cast iron rims and covers, and Y branches of standard, salt-glazed, vitrified sewer pipe be constructed.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received on May 22nd at 8 p. m. for sewer construction under the following resolution: That 10-inch, salt-glazed, vitrified pipe sewers; also four brick and concrete manholes, etc., be constructed as follows: South, Beck and 33rd streets. That 6-inch, salt-glazed, vitrified pipe sewers be constructed as follows: 35th, 34th, 37th, 39th, 41st and 38th streets, and Wall, Waller, Florida, Center, Ohio, Leona Chanslor and Bissell avenues; alley between 35th and 37th streets; alley between 37th and 39th streets.

ROSS, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Ross. Owners, Town of Ross. Bids will be received until May 23rd at 8:30 p. m. for doing the following work, including the furnishing of the necessary labor and materials therefor, in the Town of Ross, towit: Covering the existing macadamized roadways in said town with a bituminous wearing surface.

SACRAMENTO, CAL. — Street improvements and sewers. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following street and sewer contracts have been awarded: To W. J. Tobin, 735 Filbert street, Oakland, for the improvement of 34th street, from the north line of Carnell avenue to the sewer 13 feet south of J street, by excavating a trench, constructing an 8-inch, vitrified, ironstone pipe sewer with 25-6-inch, vitrified, ironstone Y branches and backfilling the trench; constructing two concrete manholes, complete, with cast iron curbs and covers; placing one cast iron gutter drain with 6-inch, vitrified, ironstone sewer pipe elbow attached; constructing six linear feet of 6-inch, vitrified, ironstone sewer pipe drain connecting gutter drain to sewer. To W. J. Tobin, for the improvement of the right-of-way, consisting of a strip of land four feet wide, the center line of which is two feet east of the east line of Wright & Kimbrough Tract No. 25, by excavating a trench and constructing 8-inch, vitrified, ironstone pipe sewer, constructing three concrete manholes and supplying two of them with cast iron curbs and covers, and one with cast iron curb and cover as shown; placing forty-two 6-inch, vitrified, ironstone Y branches on 8-inch pipe sewer, and backfilling the trench. To A. Teichert & Son, Oschner Bldg., Sacramento, for the improvement of Madrone avenue from the east line of Lower Stockton road to the east line of 27th street, by removing and disposing of all surplus and refuse material; constructing concrete curb; constructing concrete gutter; constructing concrete manholes, complete, with cast iron curbs and covers; placing cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; constructing 6, 8, and 12-inch vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; constructing concrete sidewalk 6 feet wide and 3½ inches in thickness; grading roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick. To C. D. Vincent, 193 Montecito avenue, Oakland, for improving a portion of V street, between 31st and 34th streets, etc., by excavating a trench and constructing therein 6, 8, 12, 14 and 26-inch, vitrified, ironstone pipe sewers, concrete manholes, Y branches, etc.

MERCED, MERCED CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer C. D. Martin, Merced. Owners, City of Merced. At the last meeting of the City Trustees Street Superintendent Czerny and City Engineer C. D. Martin were instructed to prepare the plans and specifications for paving Alameda street, from 19th to 24th; O street, from 16th to 22nd, and all the alleys from 16th to 22nd and from J to O streets, with extensions on the alley between 20th and 21st streets extending to G street, and the alley between 22nd and 23rd from J to N street. Bids on this work will be called for shortly.

SONOMA, SONOMA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Sonoma. Owners, City of Sonoma. At the last meeting of the City Council the City Surveyor was ordered to survey Napa street and to prepare plans and specifications for making a permanent concrete base roadway on Napa street in the two blocks fronting on the plaza. Bids on this work will be called for shortly.

LOS ANGELES, CAL. — Highway work, $28,100. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Fred Hoffman of Long Beach was the lowest bidder at $28,100 for improving certain streets in the townsite of Willowbrook in Road Improvement District No. 96. The next lowest bid was submitted by the Conner Contracting Co. for $28,400. Engineer's estimate, $33,485.

GLENDALE, LOS ANGELES CO., CAL.—Street improvements. Cost not stated. Engineer, Superintendent of Streets T. W. Watson, Glendale. Owners, City of Glendale. Bids will be received by Street Superintendent T. W. Watson at his office in the city hall, 575 West Broadway, up ao 7:30 p. m. of May 22nd for improving certain portions of Brand Boulevard intersections with First and Doran streets, in accordance with specifications on file at the office of the City Clerk. Certified check or bond for 10 per cent required.

REDONDO, LOS ANGELES CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Redondo. Owners, City of Redondo. Bids will be received by the City Clerk up to 8 p. m. of May 22nd, 1916, for improving Opal street, between Catalina and Irena avenues; and Jasper street, between Irena and Maria avenues, in accordance with specifications which may be obtained at the office of the City Engineer. The work on Opal street will include 139,900 square feet of paving, 6,260 square feet of cement sidewalk, and 1,500 linear feet of cement curb. The work on Jasper street will include 60,200 square feet of paving, 11,000 square feet of cement sidewalk and 2,200 linear feet of cement curb. Certified check or bond for ten per cent is required. C. O. Mangold is the County Clerk.

Contracts Awarded

SAN FRANCISCO—Street improvements. Cost as follows. Engineer, City Engineer, San Francisco. Owners, City and County of San Francisco. The following street improvement contracts have been awarded by the Board of Public Works. For the improvement of 27th avenue between the north line of Geary street and a line 200 feet north therefrom, by the construction of granite curbs; a 7-foot strip of crete foundation with a gravel filler; basalt block pavement on a 6-inch conalso an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway thereof, awarded to The City Street Improvement Co., 166 Geary street, San Francisco, for $1,086. The improvement of 25th avenue, between Balboa and Cabrillo, by grading, concrete curbs, artificial stone sidewalks, six brick catchbasins, with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts, an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; also an 8-inch, vitrified, salt-glazed, ironstone pipe sewer with 34 Y branches and side sewers, and three brick manholes, awarded to A. E. Buckman, 352 Geary street, S. F., for $9,962.60. For the improvement of Filbert street, between Jones and Leavenworth streets, by the construction of artificial stone side-

walks, awarded to Philip O'Donnell, 4110½ 25th street, S. F., for $355,32. For the improvement of the crossing of Geary street and 39th avenue by the construction of concrete curbs; modified artificial stone sidewalks; four brick catchbasins, with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphalt wearing surface, awarded to Owen McHugh, Russ Bldg., S. F., for $1,730.29. For the improvement of Seward street, from Douglas street to Clover Heights Tract, by grading; one brick catchbasin, with cast iron frame, grating and trap and 10-inch, vitrified, salt-glazed, ironstone pipe culvert; artificial stone sidewalks, granite curbs, two brick manholes; an 8-inch, vitrified, salt-glazed, ironstone pipe sewer, with 27 Y branches; and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Eaton & Smith, 407 11th street, S. F., for $5,397. For the improvement of Cumberland street, between Church and Sanchez streets, by the construction of concrete curbs; seven-foot strip of vitrified brick pavement, an asphalt pavement, consisting of a 6-inch concrete foundation with a 2-inch asphalt wearing surface, awarded to Flinn & Treacy, First National Bank Bldg., S. F., for $489.75.

TULARE, TULARE CO., CAL. — Street paving. Cost as follows. Engineer, City Engineer, Tulare. Owners, City of Tulare. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price, 1c a square foot for grading and preparation, 40c a foot for concrete curb, 22c a foot for gutter and 21½c a square foot for the asphalt pavement.

SAN RAFAEL, MARIN CO., CAL.—Highway construction, $6,211.20. Engineer, County Surveyor, San Rafael. Owners, Marin County. Contractor, S. P. Brownlee, County Road, Kentfield. Contract price, $6,211.20.

SAUSALITO, MARIN CO., CAL.—Sewer construction, $6,674.75. Engineer,Town Engineer, Sausalito. Owners, Town of Sausalito. Contractor, S. S. Abrams, Ross. Contract price, $6,674.75.

NAUA, NAPA CO., CAL.—Road construction, $1,050.45. Engineer, County Surveyor, Napa. Owners, Napa County. Contractor, Andrew R. Sittig, Napa. Contract price, $1,050.45.

STOCKTON, SAN JOAQUIN CO., CAL. —Sewer construction. Cost as follows. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, W. F. Edwards, 675 31st, Oakland, lateral sewers in Fair Oaks, $11,978.57. Chambers & Heafey, Bacon Bldg., Oakland, laterals in Villa Addition, $4,877.08.

STOCKTON, SAN JOAQUIN CO., CAL. —Street paving, $61,866.42. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractors, Clark & Henery, 38 South Henry street, Stockton. Contract price, $61,866.42.

AUBURN, PLACER CO., CAL.—Road improvement. Cost as follows. Engineer, City Engineer, Auburn. Owners, City of Auburn. Contractors, Marsh Bros., Monadnock Bldg., S. F. Contract price, 88c per cubic yard of material moved.

EUREKA, HUMBOLDT CO., CAL.—Clearing road, $1,000. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contractor, Thomas Engelhart, 639 16th street, Eureka. Contract price, $1,000.

STORES AND OFFICES

SAN FRANCISCO—Stores, 1 story and base, brick, $8,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, John R. Schroeder. Location, east Larkin north of Ellis, covering an area of 25 by 68½ feet. Will contain one store. Interior finish pine with hardwood in the display windows. Patent store fronts and marble bases. Exterior faced with cement plaster and white enamel brick. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Lofts, 2 story and base, reinforced concrete, $10,000. Architect, A. W. Pattiani, Merchants' National Bank Bldg., S. F. Owner, Frederick Marriott. Location, south Minna west of Third, covering an area of 40 by 62 feet. Interior finish pine. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Store alteration, 1 story, brick, $2,000. Architect, none. Owner, California Co-operative Meat Co., 12th and Harrisoo streets, Oakland. Location, 12th and Harrison streets. Work will consist of interior finish, tile, marble and electric work. Plans are complete and work will be done by Day Labor.

MARTINEZ, CONTRA COSTA CO., CAL.—General store, 1 story and base, brick and steel, $30,000. Architect, A. A. Cantin, Foxcroft Bldg., S. F. Owner, Lasell Co., 716 Castro street, Martinez. Location, Castro and Green streets, covering an area of 125 by 150 feet. Revision of the plans has been made necessary by a change in the location. Interior will be finished in pine and hardwood. Patent store fronts and marble bases. Exterior faced with pressed brick and cement plaster. Revised plans complete and ready for figures.

MONTEREY, MONTEREY CO., CAL. —Publication plant, 1 story, brick. Cost not stated. Architect's name not given. Owners, Monterey American. Bids will be received at the American office up to and until 4 o'clock Saturday afternoon, May 20th, for the construction of a one-story brick building to be used for the housing of the Monterey American. Plans and specifications for this work are now on file in the office of the Monterey American and can be inspected there. Terms for bidding will also be made known there. The right to reject any or all bids is reserved.

LOS ANGELES, CAL.—Stores and lofts, 3 story and base, reinforced concrete. Cost not stated. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owner, Valentine Kratz. Location, Los Angeles street near 8th, covering an area of 55 by 147 feet. Interior finish pine. Metal window sash and frames. Elevator service. Exterior faced with cement plaster. Plans being prepared.

THEATRES

SAN FRANCISCO — Theatre and stores, 2 story and base. Class A construction. Cost not stated. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, represented by Herbert Rothchild. Location, southeast corner 4th and Market streets, covering an area of 100 by 160 feet. Preliminary plans for this improvement have been submitted to the owners and have received their approval. Detail drawings are now being made and bids will be called for shortly.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1038 — Proposals for Electric Cable, Chain, Steel, Fulcrums, Springs, Bolts, Nuts, Rivets, Screws, Washers, Wire Netting, Grommets, Files, Bits, Twist Drills, Taps, Reamers, Drill Sleeves and Sockets, Stocks and Dies, Chisels, Wrenches, Hammers, Breast Drills, Ratchet Braces, Pliers, Pipe Tongs, Squares, Planes, Axes, Adzes, Hatchets, Saws, Machettes, Anvils, Vises, Valves, Cocks, Garbage Cans, Marine Clocks, Compasses, Rescue Lights, Distress Outfits, Life Preservers, Oars, Hose, Tire Tubes, Brick, Furnace Cement, Water Coolers, Ice Cream Freezers, Butchers' Blocks, Rattan Baskets, Food Choppers, Kitchen Utensils, Flats, Vinegar Bottles, Cleavers, Knives, Spoons and Towels.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. May 20, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1038) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR CEMENT.

CEMENT—Department of the Interior, U. S. Reclamation Service, Washington, D. C., April 19, 1916.—Sealed proposals will be received at the office of the United States Reclamation Service, 424 Federal Building, Denver, Colo., until **10 o'clock a. m. May 25, 1916,** for furnishing 115,000 barrels of Portland cement, f. o. b. cars at the works of the bidder. For particulars address the U. S. Reclamation Service, Washington, D. C., or 424 Federal Building, Denver, Colo. A. P. DAVIS, chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

CIRCULAR 1039—Proposals for Steel, Iron, Wire Cable, Wrought Iron and Steel Pipe, Chain, Boiler Tubes, Steel Wire, Car Wheels, Electric Cable, Cotters, Screws, Hinges, Bolts, Locks, Hasps, Door Hooks, Casters, Bed Knobs, Hose Couplings, Hose Clamps, Oilers, Gongs, Chain Blocks, Snatch Blocks, Pulleys, Stocks and Dies, Torches, Grindstones, Buckets, Brooms, Tool Handles, Mop Handles, Meat Broilers, Panel Board, Watthour Meters, Electric Attachments, Welding Spectacles, Steel Tapes, Mop Heads, Signal Flags, Twine, Tracing Cloth, Insulating Paper, Roofing Paper, Onion Skin Paper, Cardboard and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. May 26, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1039) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR BUILDING.

BUILDING — Treasury Department, Office of the Supervising Architect, Washington, D. C., April 26, 1916.—Sealed proposals will be opened in this

office at **3 p. m. June 7, 1916**, for the construction, complete, of the steerage barracks and storehouse for the United States quarantine station at Portland, Me. Drawings and specifications may be obtained from the custodian at the quarantine station or at this office, in the discretion of the acting supervising architect. JAMES A. WETMORE, acting supervising architecta.

PROPOSALS FOR DREDGING.

DREDGING—U. S. Engineer Office, Seattle, Wash.—Sealed proposals for dredging, removal of cofferdams, etc., at the Puget Sound-Lake Washington locks will be received here until **12 m. May 31, 1916**, and then opened. Information on application.

PROPOSALS FOR LUMBER.

LUMBER—Sealed proposals will be received by the commissioner of fisheries, Washington, D. C., until **2 o'clock p. m. May 25, 1916**, and then opened, for furnishing lumber and building material to the bureau of fisheries at Seattle, Wash. For blank proposals and particulars address "Agent, Bureau of Fisheries," L. C. Smith Building, Seattle, Wash.

NOTICE TO CONTRACTORS.

NOTICE is hereby given by the Board of Trustees of the Redwood City School District of San Mateo County, that bids will be received for the construction of two one-story buildings to be erected on the property recently purchased by said district on the Woodside road, town of Redwood City, the other on the property recently purchased on Whipple avenue, Wellesly Park, town o Redwood City.

Said bids will be opened at **8 o'clock p. m. on the 2nd day of June, 1916**, at the office of the said Board of Trustees in the Redwood City Grammar School building; said school buildings to be constructed according to the plans and specifications of N. W. Sexton & Co., now on file at the said office of the said Board of School Trustees, in the Redwood City Grammar School building Separate bids will also be received for tiled roof for above mentioned buildings and plans and specifications for same may be procured at same office.

All bids should be addressed to H. Steinberger, clerk of said board and should be accompanied by bidder's bond or certified check equal to ten per cent of the bid to guarantee good faith of the bidder. Said trustees reserve the right to reject any or all of said bids.

HENRY STEINBERGER,
Clerk of said Board.

Dated, Redwood City, California, May 4, 1916.

PUBLIC EMPLOYMENT BUREAU SECURE MANY POSITIONS.

The newly organized Public Employment Bureaus of the State of California, located in San Francisco, Oakland, Sacramento and Los Angeles made a phenominal forward leap in April, according to the report just furnished by John P. McLaughlin, Labor Commissioner. The number of permanent positions filled for April was 3286, or an increase of 1197 as compared with March. The total number of positions filled since February 1, when the Bureaus were established, is 6900. April came within 328 of equalling the nunmber of positions filled during February and March and exceeded March by 1197 positions filled.

In the San Francisco offices, during April, 1205 men and 308 women obtained positions, an increase of 638 over March. In fact, the San Francisco offices beat the combined positions filled record of February and March by 119. The other offices also were given excellent patronage. In Oakland, 449 men and 141 women received positions. The Sacramento office filled 345 positions for men and 39 for women last month. Positions were furnished 756 men and 43 women in Los Angeles, in April.

That the employers of the State are realizing the importance of the State Employment Bureaus and the benefits that may be derived from them is shown by the fact that during the past three months, 3512 employers applied for help. The San Francisco offices received 1319 calls for employees since February 1; during April 760 calls were received, or 201 more than the two previous months.

The total number of employees applied for since February 1 is 8225; of this number 4001 were applied for in April. The San Francisco offices were asked to furnish 1971 employees in April and 1328 in February and March. The Bureaus made a remarkable record in that of the 8225 positions offered, it was possible to fill 6900. About 70% of the positions filled were ouside of the cities in which the Bureaus are located, showing that the new department can offer dependable service to employers in all part of the State.

The Bureaus have satisfactorily filled such positions as dairy hands, farm hands, fruit pickers, gardeners, building and electrical trades, painters, plumbers, roofers, structural iron workers, bookkeepers, stenographers, food, beverage and tobacco trades, hotels and restaurants, sawmills and woods, metal and machinery trades, mining, oil and quarrying trades, printing and publishing, hospitals, laundries, chauffeurs, teamsters, freight handlers, engineers and firemen, seamen, section men, telegraph and telephone operators, agents, clerks, salesmen, delivery men, packers, porters, cabinet workers, upholsterers and other wood and furniture occupations, elevator runners, janitors, messengers(watchmen, servants in private homes, cleaners, handymen, etc.

The laboring people are continuing to show increased interest in the Bureaus. This is seen by the fact that 3388 men and 972 women registered during April. In all, 11,729 men and women have thus far registered in the four State Employment Bureaus.

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Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339.
Red Line Trans. Co., S. F.; People's Express Co., Oakland.

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Direct to
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Automatic Block Signals.
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Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

PIER ALTERATION—Cost not stated. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Bids will be received until May 18th for furnishing materials and making alterations and additions to Pier No. 38 on the waterfront of the City of San Francisco. The materials to be used in this work shall consist of the requisite quantities of Portland cement and creosoted piles, which will be furnished to the contractor by the Board, yellow fir lumber, iron bark staves, bituminous concrete paving, sand, crushed rock or gravel, reinforcing materials, castings, rail and fastenings, etc. All materials used must be of the best of their respective kinds if not especially specified herein. All materials used in the structures will be subjected to a rigid examination and test, and if found defective, undersized, unsuitable or not as specified, will be condemned and must be immediately removed from the work by the contractor at his expense.

RESIDENCES—3, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owners, Allen & Co., 125 Sutter street, S. F. Location, east 28th avenue north of California. These houses will contain seven rooms, baths and sleeping porches. Basement garages are also provided. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, W. G. Gilmore. Location, Edgewood avenue. Will contain eight rooms, two baths and sleeping porch. Interior finish hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCES—4, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owner, J. V. Campbell, 1040 Bryant street, S. F. Location, west Central avenue north of Grove. Each dwelling will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, William Leach, 1559 9th avenue, S. F. Location, east 24th avenue north of Judah. Will contain six rooms and bath. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brcik mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. San Francisco. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, Jean Rey. Location, 14th avenue south of Le Conte. Will contain six rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Tile bath room. Exterior covered with shiplap and rustic. Plans being prepared.

RESIDENCE — 2 story and base, frame, $9,000. San Francisco. Architect, Edward E. Young, 251 Kearny St., S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, east Commonwealth avenue north of Geary. Will contain ten rooms, three baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms finished in tile. Hot water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $9,000. San Francisco. Architects, Foulkes & Hildebrand, Crocker Bldg., S. F. Owner, Dr. A. S. Musante. Location, Jones between Vallejo and Green. Will contain nine rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $10,000. San Francisco. Architects, Faich & Knoll, Hearst Bldg., S. F. Owner, A. Michelson. Location, Seacliff. Will contain eight rooms, three baths and basement garage. A large sun room will be located on the roof. Interior finish gum, pine and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Hot water heater. Bath rooms tile. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

FLATS—2 story and base, frame, $6,500. San Francisco. Architects, Foulkes & Hildebrand, Crocker Bldg., S. F. Owner, J. W. McCarthy. Location, Balboa between 14th and 15th avenues. Will contain two modern flats of five and six rooms with baths. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Mantels tile or brick. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS—2 story and base, frame, $3,700. San Francisco. Architect, none. Owner, Mrs. Lulu E. Schutt, 619 12th avenue, S. F. Location, west 15th avenue south of Balboa. Will contain two flats of five rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—4 story and base. Class C construction, $40,000 San Francisco. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner's name not given. Will contain four stores on the first floor and thirty-six suites of two and three rooms on the upper floors. Interior finished in pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant, hot water system and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans nearly complete.

FLATS—2 story and base, frame, $7,000. San Francisco. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, G. B. Schiaffino. Location, south Green east of Pierce. Will contain two large residential flats. Basement garage and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exterior covered with shiplap and cement plaster. Plans complete and figures being taken.

FLATS—5, 2 story and base, frame, $5,000 each. San Francisco. Architect, none. Owner, H. C. Keenan, 300 Webster street, S. F. Location, east 26th avenue south of Clement. Each building will contain two modern flats of five and six rooms. Basement garages. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster, brick veneer and shiplap. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, W. J. Cuthberton, 328 Montgomery street, S F. Owner, J. H. Plattner, 2104 Market street, S. F. Location, east 9th avenue north of Lawton. Will cover an area of 24 by 55 feet and will contain two flats of five and six rooms. Basement garage. Interior finish pine and hardwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile Automatic water heaters. Exterior covered with brick veneer and cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,000. San Francisco. Architects Koenig & Christiansen, Humboldt Bank

Bldg., S. F. Owner, John N. Christiansen. Location, east 6th avenue north of Kirkham. Will contain two flats of five and six rooms, bath and basement garage. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $9,000. San Francisco. Architect, none. Owner, M. McLean, 590 5th avenue, S. F. Location, east 5th avenue north of Fulton, covering an area of 25 by 50 feet. Will contain two flats of five and six rooms, baths and basement garage. Interior finish pine, elm panels and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cemtnt plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—4 story and base. Class C construction, $50,000. San Francisco. Architect, Albert Schroepfer, Foxcroft Bldg., S. F. Owner, Martin S. Show. Location, south California west of Gough, covering an area of 55 by 122 feet. Will contain fourteen suites of two, three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, hot water supply, oil burning system and automatic elevator. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $10,000. San Francisco. Architect, none. Owner, J. V. Campbell, 1040 Bryant street, S. F. Location, northwest corner of Central avenue and Grove streets, covering an area of 25 by 75 feet. Will contain six apartments of two, three and four rooms. Interior finish pine, white enamel and redwood. Some hardwood floors. Wall beds. Hot water supply. Bath rooms tile. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owners, Gerard Investment Co. Location, north Clay street west of Hyde. Will contain 12 apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat and hot water system. Oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame. Cost not stated. San Francisco. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner's name withheld. Location, north Jackson street near Mason. Will contain six apartments of four rooms and bath. Interior finish pine and redwood. Some hardwood floors. Wall beds. Bath rooms tile. Exterior covered with cement plaster and shiplap. Plans being prepared.

APARTMENT HOUSE ADDITIONS AND ALTERATIONS—Frame, $3,000. San Francisco. Architect, O. E. Evans, 2569 Mission street, S. F. Owner, Gustave Schnee. Location, northwest San Jose avenue and 26th street. Work will consist of raising the present building and adding one story. There will be four apartments of three rooms each. New interior trim, plastering, painting, plumbing and electric work will be included. Plans are complete and work will be done by Day Labor.

RESIDENCE — 2 story and base, frame, $9,000. San Francisco. Architect, none. Owner, W. W. Rednall, 2,500 Filbert street, S. F. Location, north Green east of Lyon. Will contain eleven rooms, three baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms finished in tile. Furnace heat and hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with rustic and brick veneer. Plans complete and work to be done by Day Labor.

RESIDEINCE — 2 story and base, frame, $5,000. San Francisco. Architect, none. Owner, W. W. Rednall, 2500 Filbert street, S. F. Location, east Lyon north of Green. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and brick veneer. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southwest Devisadero and Washington streets. Will contain a number of two, three and four room apartments. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water circulating system. Bath rooms tile. Wall beds. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, none. Owner, William Rucker, 15th street near Castro. Location, south 15th near castro. Will contain two flats of five and six rooms. Basement garage. Interior finish pine and elm panels. Some hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ASSOCIATION BUILDING—5 or 6 story and base. Class A construction, $150,000. San Francisco. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owners, Young Women's Christian Association. Two down-town sites are now under consideration and a selection will be made pending the outcome of the present campaign to secure a fund for building purposes amounting to $350,000. If the campaign is successful a building containing offices, a gymnasium and living quarters will be erected. Further mention will be made of the work.

GOLF AND COUNTRY CLUB—1 and 2 story, frame, $50,000. San Francisco. Architect, George W. Kelham, Sharon Bldg., S. F. Owners, San Francisco Country Club. Will contain banquet room, locker room, baths and special rooms for ladies. Interior finish pine and hardwood. Hardwood floors. Central heating system and hot water supply. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

STORES—1 story and base, brick, $8,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, John R. Schroeder. Location, east Larkin north of Ellis, covering an area of 25 by 68½ feet. Will contain one store. Interior finish pine with hardwood in the lisplay windows. Patent store fronts and marble bases. Exterior faced with cement plaster and white enamel brick. Plans complete and work to be done by Day Labor.

LOFTS—2 story and base, reinforced concrete, $10,000. San Francisco. Architect, A. W. Pattiani, Merchants' National Bank Bldg., S. F. Owner, Frederick Marriott. Location, south Minna west of Third, covering an area of 40 by 62 feet. Interior finish pine. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

THEATRE AND STORES—2 story and base. Class A construction. Cost not stated. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, represented by Herbert Rothchild. Location, southeast corner 4th and Market streets, covering an area of 100 by 160 feet. Preliminary plans for this improvement have been submitted to the owners and have received their approval. Detail drawings are now being made and bids will be called for shortly.

Contracts Awarded.

STREET IMPROVEMENTS—Cost as follows. San Francisco. Engineer, City Engineer, San Francisco. Owners, City and County of San Francisco. The following street improvement contracts have been awarded by the Board of Public Works: For the improvement of 27th avenue, between the north line of Geary street and a line 200 feet north therefrom, by the construction of granite curbs; a 7-foot strip of basalt block pavement on a 6-inch concrete foundation with a gravel filler; also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway thereof, awarded to the City Street Improvement Co., 166 Geary street, S. F., for $1,086. The improvement of 25th avenue, between Balboa and Cabrillo, by grading, concrete curbs, artificial stone sidewalks, six brick catchbasins, with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; also an 8-inch, vitrified, salt-glazed, ironstone pipe sewer with 31 Y branches and side sewers and 3 brick manholes, awarded to A. E. Buckman, 352 Geary street, San Francisco, for $9,962.60. For the improvement of Filbert street, between Jones and Leavenworth streets by the construction of artificial stone sidewalks, awarded to Philip O'Donnell, 4110½ 25th street, S. F., for $355.32. For the improvement of the crossing of Geary street and 39th avenue by the construction of concrete curbs, modified artificial stone sidewalks, 4 brick catchbasins, with cast iron frames, gratings and traps, and 10-inch, vitri-

fied, salt-glazed, ironstone pipe culverts; an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphalt wearing surface, awarded to Owen McHugh, Russ Bldg., S. F., for $1,730.29. For the improvement of Seward street, from Douglas street to Clover Heights Tract, by grading, 1 brick catchbasin with cast iron frame, grating and trap; and 10-inch, vitrified, salt-glazed, ironstone pipe culvert; artificial stone sidewalks, granite curbs, 2 brick manholes, an 8-inch, vitrified, salt-glazed, ironstone pipe sewer with 27 Y branches; and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Eaton & Smith, 407 11th street, S. F., for $5,397. For the improvement of Cumberland street, between Church and Sanchez streets, by the construction of concrete curbs; 7-foot strip vitrified brick pavement, an asphalt pavement consisting of 6-inch concrete foundation with a 2-inch asphalt wearing surface, awarded to Flinn & Treacy, First National Bank Bldg., S. F., for $489.75.

Consolidation Committees Hold Important Meeting.

The possibility of the Builders' Exchange and the General Contractors' Association coming together under one roof was discussed at a joint meeting of committees from both organizations recently.

The Builders' Exchange was represented by J. D. McGilvray, Alex. Mennie, Ira W. Coburn, E. J. Brandon, Geo. Forderer and President H. Maundrell as ex-officio member; while the General Contractors' Association was represented by Ralph McLeran, Chas. Gompertz, A. H. Bergstrom, Grant Fee, D. Farquharson, with President Chas. Wright as ex-officio member.

No details were worked out, simply a general discussion as to the desirability of such a move, was held.

All were agreed that it would certainly be of great benefit to all concerned if the entire building business was united under one roof.

OAKLAND AND ALAMEDA COUNTY

RESIDENCE — 1 story and base, frame, $2,250. Oakland, Cal. Architect, none. Owner, Charles F. Fallmer, 170 Pearl street, Oakland. Location, south Elwood west of Valle Vista. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantel. Tile wainscot in bath room. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, E. L. Jenks, 2977 Piedmont avenue, Oakland. Location, north Woolsey west of Benvenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $20,000. Piedmont, Alameda Co., Cal. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, William G. Volkmann. Location, Crocker Terrace. Will contain fifteen rooms, several baths and sleeping porches. Interior finish hardwood and white enamel. Hardwood floors throughout except in the bath rooms. Central heating system and open fire places. Mantels tile, marble and brick. Bath rooms tile and equipped with showers. Oil burning system. Hot water circulating system. Vacuum cleaning. Exterior faced with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $6,000. Oakland, Cal. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner's name withheld. Location, Montell near Piedmont. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $5,000. Piedmont, Alameda Co., Cal. Architects, Milwain Bros., Albany Bldg., Oakland. Owner, C. de F. Case. Location, Blair avenue. Will contain seven rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, C. M. Rathburn, Hayward. Location, east 108th avenue north of Vollarie. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with white enamel in the bed rooms. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, George H. Johnson, 5457 Vicente avenue, Oakland. Location, north Pleasant Valley avenue east of Moraga. Will contain five rooms, bath and sleeping porch. Interior finish hardwood, pine and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect none. Owner, W. H. Higgins, 2477 94th avenue, Oakland. Location, west 83rd avenue north of Plymouth. Will contain five rooms, bath and sleeping porch. Interior finish pine. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, Dr. George S. Pittock, 2139 Fulton street, Berkeley. Location, High Court and Oak. Will contain five rooms and bath. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, W. S. Young, 533 63rd street, Oakland. Location, west San Pablo avenue north of Jones. Each house will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Albany, Alameda Co., Cal. Architect, none. Owner, A. R. Morris, 914 Kains avenue, Oakland. Location, west Pomona north of Marin. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, east Capell street north of Cleveland. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architect. Claude B. Barton, First Trust Bldg., Oakland. Owners, O'Connor & Elrod Location, Rockridge Park. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

STORE ALTERATION — 1 story, brick, $2,000. Oakland, Cal. Architect, none. Owner, California Co-operative Meat Co., 12th and Harrison streets, Oakland. Location, 12th and Harrison streets. Work will consist of interior finish, tile, marble and electric work. Plans complete and work will be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, Eunice Wiser, 5601 Edgerly street, Oakland. Location, north Pleasant Valley east of Moraga. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg.,

Oakland. Owner, J. C. O'Connor. Location, east Golden Gate avenue south of Acadia. Each house will contain eight rooms, bath and sleeping porch. Interiors finished in hardwood, pine and white enamel. Hardwood floors throughout except in the bath rooms. Furnace heat and open fire places. Mantels tile and brick. Tile floors and wainscot in bath rooms. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,100. Berkeley, Alameda Co., Cal. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner's name withheld. Location, east Benvenue. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley Owner, John Hood. Location, Santa Barbara avenue north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $5,000. Alameda, Alameda Co., Cal. Architects, Banning & Stewart 5215 Broadway, Oakland. Owners, Banning & Stewart. Location, Palmera Court. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $5,500. Oakland, Cal. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owners, Banning & Stewart. Location, Rockridge. Will contain 8 rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $18,000. Oakland, Cal. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner's name withheld. Location, Montell and Piedmont avenues. Will contain twelve apartments of three and four rooms. Interior finish pine, hardwood and white enamel. Some hardwood floors. Steam heat and hot water supply. Oil burning equipment. Wall beds. Bath rooms tile. Exterior covered with cement plaster. Plans being prepared.

RESIDENCES—12, 1 story and base, frame, $2,000 each. Berkeley, Alameda Co., Cal. Architect, none. Owner, R. C. Hillen, 470 Haight avenue, Alameda. Location, Aston, Francisco, Short and Derby streets. Each dwelling will contain five rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic, cement plaster and shingles. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,250 each. Berkeley, Alameda Co., Cal. Architect, none. Owner, J. C. Pfrang, 5487 Claremont avenue, Oakland. Location, north Derby east of California. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and brick or tile mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, east Capell north of Cleveland. Will contain nine rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Ole Kolen, 3127 Bruce street, Oakland. Location, west Maybell south of Porter. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, T. L. Spanggaard, 1199 75th avenue, Oakland. Location, west 75th avenue south of Rudsdale. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

FACTORY—1 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owners, Aluminum Products Co., Le Grange, Ill. Location, East Oakland. This building will be the first unit of a large plant. Only preliminary plans have been prepared and further mention o fthe work will be made in the next issue.

Contracts Awarded.

APARTMENT HOUSE—3 story and base, frame, $10,000. Oakland, Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, D. H. McLaughlin, 15th and Broadway. Contractor, John M. Bartlett, 1706 Parker avenue, Berkeley. Contract price, $10,000. Note: Contractor is now taking subfigures.

SAN JOSE AND THE SANTA CLARA VALLEY

STREET AND SEWER WORK—Cost not stated. Daly City, San Mateo Co., Cal. Engineer, City Engineer, Daly City. Owners, Daly City. Bids will be received until May 22nd at 8 p. m. for street improvements under the following resolutions: That Alpha, Beta, Como, Lake and Gambetta avenues be graded between the property lines and from the east line of Mission road to the east boundary line of Vista Grande Tract No. 2; also that Mission road be graded between the east curb line and the east property line and from a line 115.31 feet south of the south line of Gambetta avenue to a line 305.73 feet north from the north line of Alpha avenue. Also that 4-inch, vitrified, salt-glazed, ironstone pipe lateral sewers, with Y's, be constructed in each of said avenues connecting with and running from the existing main sewer in the center line thereof to the curb lines on either side to the number of one such lateral sewer for each sparate lot or parcel of land fronting on each of said avenues. Also that cement concrete sidewalks 6 feet wide, and combination cement concrete gutters 2 feet wide and armored concrete curbs be constructed on both sides of said avenues from the Mission road to the east boundary line of the aforesaid tracts. Also that cement concrete sidewalks approximately 6½ feet wide and granite curbs be constructed on the east side of Mission road from a line 115.31 feet south from the south line of Gambetta avenue to a line 305.73 feet north from the north line of Alpha avenue; also that combination cement concrete gutters and armored concrete curbs be constructed thereon at the termination of each of the avenues aforementioned, on the curb return arcs of said terminations. Also that an asphaltic concrete pavement consisting of a 4-inch cement concrete base and 1½-inch asphaltic concrete surface be constructed in the roadway of each of the avenues; also that an asphaltic concrete pavement consisting of a 4-inch cement concrete base and 1½-inch asphaltic concrete surface be constructed on Mission road at the termination of each of the avenues from the east curb line of said road and the east boundary line thereof and between the gutter lines on either side.

ROAD CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor Neuman, Redwood ity. Owners, San Mateo County. At the last meeting of the County Supervisors County Engineer Neuman presented plans and specifications for one mile of paving on Mission road at the Holy Cross fill. The plans after being amended so as to reduce the width of the road from 25 feet to 18 feet, were accepted, and the clerk was instructed to advertise for bids. Plans may be had from the County Clerk.

STREET PAVING, ETC.—Cost as follows. Palo Alto, Santa Clara Co., Cal. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The following bids were received by the City Trustees at Palo Alto, Santa Clara County, for constructing approximately seven miles, 1,275,754 square feet of street paving. Bids were taken under advisement until May 11th, when a contract will probably be awarded to the lowest bidder. Following is a complete list of the bids received: F. R. Ritchie, Chronicle Bldg., S. F., $134,-902; Paul & Caldwell, Stockton, $142,-679; Clark & Henery, Ochsner Bldg., Sacramento, $146,378; Blanchard &

Ehrhart, 660 Market, S. F., $147,630; Sonnicksen & Bryant, Palo Alto, $148,-504; Coast Construction Co., L. A., $149,265; T. W. McClenahan, S. F., $150,388; Ransome-Crummey Co., Oakland, $152,247; Johnson-Shea Co., Central Bank Bldg., Oakland, $154,009; City Street Improvement Co., 166 Geary, S. F., $169,956; McGillivray Construction Co., Sacramento, $177,166; John W. McDonald, Jr., San Jose, $178,005; Peterson & Grier, 62 Post street, S. F., $183,292.

HIGHWAY CONSTRUCTION — Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, County Surveyor Neuman, Redwood ity. Owners, San Mateo County. Bids will be received until June 5th at 10 a. m. for the construction of a portion of the Mission road beginning at the State highway and extending in a southeasterly direction for a distance of 0.626 miles, located in the First Road District.

RESIDENCE — 2 story and base, frame, $5,000. San Jose, Santa Clara Co., Cal. Architect, F. D. Wolfe, Bank of Italy Bldg., San Jose. Owner, C. S. Allen. Location, Palm Haven Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $3,200. Santa Cruz, Sana Cruz Co., Cal. Architect, James W. Placnek, Acheson Bldg., Berkeley. Owner, W. H. Heywood. Will contain seven rooms, bath and sleeping porches. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SCHOOLS—2, 1 story, hollow tile. Cost not stated. Redwood City, San Mateo Co., Cal. Architect, N. W. Sexton, Merchants' National Bank Bldg., S. F. Owners, Redwood City School District. Each building will contain four class rooms. Interior finish pine with maple floors. Slate blackboards. Exteriors faced with cement plaster. Revised plans complete and figures being taken. Bids will be opened on June 2nd. Plans can be secured from the architect.

SCHOOL—1 story, frame, $20,000. Campbell, Santa Clara Co., Cal. Architect, F. D. Wolfe, Bank of Italy Bldg., San Jose. Owners, Campbell School District. Will contain four class rooms, assembly hall and teachers' room. Interior finish pine. Some maple floors. Central heating system. Exterior covered with cement plaster. Plans are being prepared.

PUBLICATION PLANT — 1 story, brick. Cost not stated. Monterey, Monterey Co., Cal. Architect's name not given. Owners, Monterey American. Bids will be received at the American office up to and until 4 o'clock Saturday afternoon, May 20th, for the construction of a one-story brick building to be used for the housing of the Monterey American. Plans and specifications for this work are now on file in the office of the Monterey American and can be inspected there. Terms for bidding will also be made known there. The right to reject any or all bids is reserved.

Contracts Awarded

RESIDENCE — 1 story, frame, $25,-000. Atherton, San Mateo Co., Cal. Architect, Henry Shermund, Mills Bldg., S. F. Owner, Mrs. Ellen A. Fife. Contractor, Charles A. Brady, Palo Alto. Contract price, $25,000.

SCHOOL—1 story, frame, $13,000. Hillsborough, San Mateo Co., Cal. Architect, Lewis P. Hobart, Crocker Bldg., S. F. Owners, Hillsborough School District. Contractors, McLeran & Peterson, Sharon Bldg., S. F. Contract price, $13,000.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

ROAD IMPROVEMENT—$4,000. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors County Surveyor Richardson was instructed to make surveys and prepare plans for widening the road on the Bolinas slope of the summit to the head of the bay, so as to make the road wider and safer. Surveyor Richardson was also instructed to prepare specifications for widening and improving the coast road north of Pt. Reyes Station.

ROAD MATERIALS—Cost as follows. Santa Rosa, Sonoma Co., Cal. Engineer, City Engineer, Santa Rosa. Owners, City of Santa Rosa. At the City Council's last meeting the street committee was authorized to purchase 8 tons of asphaltum at $11.25 f. o. b San Francisco and $2.60 freight per 100 pounds, and 30 yards of No. 2 crushed rock, to be used on Humboldt street from 5th to Johnson in making an experimental paving surface. The property owners are to pay for the asphalt and the city will furnish the rock and do the work.

STREET IMPROVEMENTS, CULVERTS, ETC.—Cost not stated. Fairfield, Solano Co., Cal. Engineer, City Engineer, Fairfield. Owners, City of Fairfield. Bids will be received until May 23rd for furnishing the labor and materials for the street work to be done in and upon the public streets of the Town of Fairfield by the grading and paving of the same and the installation of the necessary culverts and five concrete bridges, as contemplated under a recent bond issue of said town.

ROAD CONSTRUCTION — Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. At the last meetiny of the County Supervisors relative to the Morro Creek road extension it was ordered that bids be advertised calling for the excavating of about 12,-500 cubic yards of unclassified material and the grading of the road. The bids will be opened on June 6th. Plans may be had from the City Clerk.

SEWERS, ETC. — Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, ity of Richmond. Bids will be received until May 22nd at 8 p. m. for construction of 6-inch, salt-glazed, vitrified pipe sewers, manholes of brick and concrete, with cast iron rims and covers; lampholes of vitrified, salt-glazed sewer pipe, with cast iron rims and covers, and Y branches of standard, salt-glazed vitrified sewer pipe, be constructed on the following streets: Potrero avenue, Stockton avenue, State avenue, Fall avenue, Huber avenue, 41st street, 40th street, 43rd street, 45th street, 47th street, 49th street and 52nd street.

STREET IMPROVEMENTS—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received on May 22nd at 8 p. m. for street improvements under the following resolution: That a portion of San Pablo avenue 26 feet in width, throughout its entire length including all intersections and terminations therein contained, be graded to the official lines and grades, paved to the width of 20 feet with a 5-inch cement concrete base, a bitulithic wearing surface 2 inches in thickness, with a bitulithic flush coat and having shoulders of broken rock 4 inches in thickness and 3 feet wide on each side of said paving. That an approach, graded to the official lines and grades, with paving and shoulders of the character herein described be constructed in the west half of San Pablo avenue in and adjacent to the intersection therewith of Macdonald avenue. That corrugated iron culverts with concrete catchbasins and cast iron grates be constructed across San Pablo avenue.

SEWER CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received until May 22nd at 8 p. m. for sewer construction ordered under the following resolutionss: That 6-inch, salt-glazed, vitrified pipe sewers be constructed as follows: In 35th, 36th, 37th, 38th, 39th and 40th streets respectively, between the north line of Cutting Boulevard and the south line of Wall avenue. In Stege avenue and 34th street respectively, between the north line of Cutting Boulevard and the south line of South street. In Beck avenue and the direct extension east thereof between the center line of 35th street and the southast lin of South stret. That manholes of brick and concrete with cast iron rims and covers, lampholes of vitrified, salt-glazed sewer pipe with cast iron rims and covers and Y branches of standard, salt-glazed, vitrified sewer pipe be constructed.

SEWER CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids will be received until May 22nd at 8 p. m. for sewer construction under the following resolution: That 10-inch, salt-glazed, vitrified pipe sewers; also four brick and concrete manholes, etc., be constructed as follows: South, Beck and 33rd streets. That 6-inch, salt-glazed, vitrified pipe sewers be constructed at follows: 35th, 34th, 37th, 39th, 41st and 38th, streets; Wall, Waller, Florida, Center, Ohio, Leona, Chanslor, and Bissell avenues; alley between 35th and 37th streets; alley between 37th and 39th streets.

STREET IMPROVEMENT—Cost not stated. Ross, Marin Co., Cal. Engineer, Town Engineer, Ross. Owners, Town of Ross. Bids will be received until May 23rd at 8:30 p. m. for doing the following work, including the furnishing of the necessary labor and materials therefor in the Town of Ross,

towit: Covering the existing macadamized roadways in said town with a bituminous wearing surface.

STREET IMPROVEMENT—Cost not stated. Sonoma, Sonoma Co., Cal. Engineer, City Engineer, Sonoma. Owners, City of Sonoma. At the last meeting of the City Council the City Engineer was ordered to survey Napa street and to prepare plans and specifications for making a permanent concrete base roadway on Napa street in the two blocks fronting the plaza. Bids on this work will be called for shortly.

HALL OF RECORDS—2 story and base, reinforced concrete. Cost not stated. Napa, Napa Co., Cal. Architect, W. H. Corlett, Napa. Owners, Napa County. Will cover an area of 60 by 90 feet. Construction fireproof. Interior finish pine, hardwood and metal. Tile and hardwood floors. Steam heat from central plant in present court house. Special fireproof vaults and metal furniture. Exterior faced with cement plaster. Plans complete and figures being taken.

GENERAL STORE—1 story and base, brick and steel, $30,000. Martinez, Contra Costa Co., Cal. Architect, A. A. Cantin, Foxcroft Bldg., S. F. Owner, Lasell Co., 716 Castro street, Martinez. Location, Castro and Green streets, covering an area of 125 by 150 feet. Revision of the plans has been made necessary by change of location. Interior will be finished in pine and hardwood. Patent store fronts and marble bases. Exterior faced with pressed brick and cement plaster. Revised plans complete and ready for figures.

Contracts Awarded

HIGHWAY CONSTRUCTION—$6,211.20. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. Contractor, S. P. Brownlee, County Road, Kentfield. Contract price, $6,211.20.

SEWER CONSTRUCTION—$6,674.75. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. Contractor, S. S. Abrams, Ross. Contract price, $6,674.75.

ROAD CONSTRUCTION — $1,050.45. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Contractor, Andrew R. Sittig, Napa. Contract price, $1,050.45.

HOSPITAL COTTAGE — 1 story, frame, San Rafael, Marin Co., Cal. Architect, none. Owners, Marin County. Contractor, Joseph Williams, San Rafael. Contact price, $2,590.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

CHURCH—2 story and base, frame, $20,000. Merced, Merced Co., Cal. Architect, W. J. Blythe, Central Bank Bldg., Oakland. Owners, Presbyterian Church Society. Will contain main auditorium, Sunday school rooms, pastor's study and social rooms. Interior finish pine and ornamental plaster. Central heating system and vacuum cleaning. Art glass windows. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

IRRIGATION PROJECT — Cost not stated. Terra Bella, Tulare Co., Cal. Engineer, Stephen E. Kieffer, Terra Bella. Owners, Terra Bella Irrigation District. At th last meeting of the board of directors of the Terra Bella Irrigation District Stephen E. Kieffer was named as the chief engineer for the district, and the board instructed Mr. Kieffer to proceed with the drawing of plans and specifications for the pumping project. The contract with Mr. Kieffer calls for services as chief engineer during the construction period, covering the installation of the first unit, which, it is estimated, will require more than a year to build. The plans and specifications are well under way, Mr. Kieffer having done some preliminary work on same. Further mention will be made of this work.

BRIDGE—Reinforced concrete and steel. Cost as follows. Modesto, Stanislaus Co., Cal. Engineers, Consulting Engineers, Leonard & Day, Rialto Bldg., S. F., and County Surveyor, Modesto. Owners, Stanislaus County. All bids received on May 9th for this work have been rejected and new figures will be called for. Bids will be opened at the June session of the Board of Supervisors. A complete list of the bids received follows: C. E. Cotton, Oakland, $112,397; Howard S. Williams, S. F., $115,760; Manning Bros., Fresno, $116,900; Enrest Green, Modesto, $119,423.70; McLeran & Peterson, S. F., $119,967; Clinton Construction Co., S. F., $124,900; Teichert & Ambrose, Sacramento, $136,780; Worswick Construction Co., Los Banos, $137,500; Collman & Duncan, S. F., $137,640; Seabury B. Peterson Co., S. F., $137,996; Ross Construction Co., Sacramento, $138,870; Messmer & Rice, Los Angeles, $143,013; Peterson & Grier, S. F., $143,900; V. M. Price, S. F., $149,900; Blake Bros. Co., Oakland, $154,000; The Snare & Triest Co., New York, $155,980.

STREET PAVING—Cost as follows. Tulare, Tulare Co., Cal. Engineer, City Engineer, Tulare. Owners, City of Tulare. Contractors, Federal Construction Co., Sharon Bldg., S. F. Contract price, 1c a square foot for grading and preparation, 40c a foot for concrete curb, 22c a foot for gutter and 21½c a square foot for the asphalt pavement.

STREET PAVING—Cost not stated. Merced, Merced Co., Cal. Engineer, City Engineer C. D. Martin. Owners, City of Merced. At the last meeting of the City Trustees Street Superintendent Czerny and City Engineer C. D. Martin were instructed to prepare the plans and specifications for paving Alameda street from 19th to 24th; O street, from 16th to 22nd, and all the alleys from 16th to 22nd and from J to O street, with extensions on the alley between 20th and 21st streets, extending to G street, and the alley between 22nd and 23rd streets from J to N street. Bids on this work will be called for shortly.

CHURCH—2 story and base, frame, $12,000. Oakdale, Stanislaus Co., Cal. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Oakdale Methodist Church. Will contain main auditorium, Sunday school rooms and study. Interior finish pine and redwood with some ornamental plaster. Art glass windows. Central heating system. Exterior covered with cement plaster. Plans complete and figures being taken.

SHOP AND GARAGE—1 story and base, brick, $3,000. Fresno, Fresno Co., Cal. Architect, none. Owner, R. D. Sibley & Co., Fresno. Location, 1107 J street. Designed for a machine shop and garage. No interior finish. Special machinery. Exterior faced with stock brick. Plans complete and work to be done by Day Labor.

PACKING HOUSE—1 and 2 story and base, frame and corrugated iron $6,000. Modesto, Stanislaus Co., Cal. Architect, G. J. Ulrich, 419 Sycamore street, Modesto. Owner, A. B. Shoemake. Location, 9th and C streets. Will cover a considerable ground area. No interior finish. Special machinery. Exterior covered with corrugated iron. Plans complete and work to be done by Day Labor.

LODGE HALL—2 story and base brick. Visalia, Tulare Co., Cal. Architect's name not given. Owners, Visalia Moose Hall Association. D. I. Barnhart, Visalia, was the lowest bidder at $9,400 for erecting the new Moose home. Other bids were H. K. Houghman, $10,833.37; Toothacre & Brown, $11,461; Charles D. Stait, $11,650; and Trewhitt & Shields, $12,000. The building committee consists of Earl A. Bagby, chairman; Walter Collins and Scott Painter. Architect Eugene Mathewson of Fresno prepared the plans, which call for a two story structure.

SCHOOL—1 story, brick. Cost not stated. McFarland, Kern Co., Cal. Architect, J. M. Saffell, New Fish Bldg., Bakersfield. Owners, McFarland School District. Will contain two class rooms. Interior finish pine. Stoves to be used for heating. Exterior faced with stock brick. Plans being prepared.

Contracts Awarded.

JAIL—1 story and base, reinforced concrete, $3,892. Patterson, Stanislaus Co., Cal. Architect, none. Owners Stanislaus County. Contractors, Johnston Bros., Tracy. Contract price, $3,892.

HOSPITAL ADDITION — 1 story frame, $3,744. Bakersfield, Kern Co. Cal. Architect's name not given. Owners, Kern County. Contractor, P. W. Paynter, Bakersfield. Contract price $3,744.

PASSENGER STATION—1 and 2 story, reinforced concrete, $25,000. Fresno, Fresno Co., Cal. Architect Architectural Dept. Southern Pacific Co., Flood Bldg., S. F. Owners, Southern Pacific Co. Contractor, Bert T. Owsley, Crossley Bldg., S. F. Contract price, $25,000.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

STREET PAVING—Cost not stated. Dunsmuir, Siskiyou Co., Cal. Engineer, Town Engineer, Dunsmuir. Owners, Town of Dunsmuir. Plans have been approved and bids have been ordered received by the Town Trustees up to May 22nd for the paving of Florence avenue. Plans may be had from the Town Clerk at Dunsmuir.

ROAD CONSTRUCTION — Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Bids will be received up to June 6th at 10 a. m. for improvement work on the New Hope Landing road from the New Hope Landing bridge in an easterly direction, a distance of approximately 2½ miles.

STORM WATER SEWERS — Cost not stated. Merced, Merced Co., Cal. Engineer, City Engineer, Merced. Owners, City of Merced. At the last meeting of the City Trustees Engineer Martin submitted plans and specifications

for a proposed drainage system to carry off the storm waters from the streets west of R street. As the plans provide for the establishment of grades, the construction of a canal and the purchase of rights-of-way, the report was referred back to the engineer for an estimate of the probable cost of the system.

BRIDGE—Concrete and steel. Cost not stated. Placerville, El Dorado Co., Cal. Engineer, A. V. Saph, Rialto Bldg., S. F. Owners, El Dorado County. The County Board of Supervisors at their last meeting appointed Civil Engineer A. V. Saph to prepare plans and specifications for a wagon bridge across the South Fork of the American River near the town of Colona. Bids will be called for on this work when plans are complete.

IRRIGATION PROJECT — Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The directors of the Anderson-Cottonwood Irrigation District have awarded to James Willison, Halfmoon Bay, the contract for digging the tunnel at the redding intake, the bid being $29,795. Willison was also awarded the contract for digging the main canal from the outlet of the tunnel to Panorama Point, midway between Anderson and Cottonwood. The bid was $76,000. To F. W. Neilson was awarded the contract for building all bridges. The bids totaled, roughly speaking, $15,000. Bids for cement and metal flumes are yet to be passed on. New bids were advertised for the construction of all laterals, the dam, Churn Creek siphon, side gates, end gates, drops and the main canal south from Panorama Point. The new bids will be opened on May 29th.

METAL FLUME—Cost as follows. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The bid of the California Corrugated Culvert Co., Monadnock Bldg., S. F., for metal flume to be used in the construction of the Anderson-Cottonwood Irrigation system was rejected by the board of directors at their last meeting. The bid ranged from 45c to $2.20 per lineal foot. New bids will be called for on this work.

STREET IMPROVEMENTS AND SEWERS—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The following street and sewer contracts have been awarded: To W. J. Tobin, 735 Filbert street, Oakland, for improvement of 34th street, from the north line of Carnell avenue to the sewer 13 feet south of J street, by excavating a trench, constructing an 8-inch, vitrified, ironstone pipe sewer with 25 6-inch vitrified, ironstone Y branches and backfilling the trench; constructing two concrete manholes, complete with cast iron curbs and covers; placing one cast iron gutter drain with 6-inch vitrified ironstone sewer pipe elbow attached; constructing six linear feet of 6-inch vitrified, ironstone sewer pipe drain connecting gutter drain to sewer. To W. J. Tobin, for the improvement of the right-of-way, consisting of a strip of land 4 feet wide, the center line of which is two feet east of the east line of Wright & Kimbrough Tract No. 25, by excavating a trench and constructing 8-inch, vitrified, ironstone pipe sewer; constructing three concrete manholes and supplying two of them with cast iron curbs and covers, and one with cast iron curb and cover as shown; placing 12 6-inch vitrified, ironstone Y branches on 8-inch pipe sewer, and backfilling the trench. To A. Teichert & Son, Oschner Bldg., Sacramento, for the improvement of Madrone avenue, from the east line of Lower Stockton road to the east line of 27th street, by removing and disposing of all surplus and refuse material; constructing concrete curb, constructing concrete gutter, constructing concrete manholes complete with cast iorn curbs and covers; placing cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; constructing 6, 8 and 12 inch, vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; constructing concrete sidewalk 6 feet wide and 3½ inches in thickness, grading roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat, and asphaltic concrete wearing surface 1½ inches thick. To C. D. Vincent, 193 Montecito avenue, Oakland, for improving a portion of V street, between 31st and 34th streets, etc., by excavating a trench and constructing therein 6, 8, 12, 14 and 26 inch vitrified, ironstone pipe sewers, concrete manholes, Y branches, etc.

BRIDGE—Reinforced concrete. Cost not stated. Yreka, Siskiyou Co., Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, Siskiyou County. The Siskiyou County Board of Supervisors has voted to accept the proposal of the State Highway Commission to draw plans for and supervise the construction of two concrete bridges on the State Highway south of Yreka, and one concrete bridge across Castle Creek south of the city limits of Dunsmuir. The bids for these bridges will be called for in the near future.

APARTMENT HOUSE—3 story and base. Class C construction. Cost not stated. Eureka, Humboldt Co., Cal. Architect, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owners, Daly Bros., Eureka. Location, Hillsdale and E streets. Will contain a number of two, three and four room apartments. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Exterior faced with pressed brick. Plans complete and figures being taken.

HOSPITAL WARD—2 story and base, hollow tile and reinforced concrete, $37,477. Sacramento, Cal. Architect, R. A. Herold, Forum Bldg., Sacramento. Owners, Sacramento County. The Mathews Construction Co., Sacramento, presented the lowest figure for the construction of this building and will probably be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

SHOP BUILDING—1 story, steel and brick, $55,000. Sacramento, Cal. Engineer, Chief Engineer Barlow, Flood Bldg., S. F. Owners, Southern Pacific Co. Extensive alterations will be made to the present roundhouse. Work will include structural steel, brick, concrete work and machinery. Plans are complete and work is being done by Day Labor.

SCHOOL—1 story, frame, $6,000. Manteca, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows Bldg., Stockton. Owners, Manteca School District. Will contain two class rooms. Interior finish pine. Stoves for heating. Exterior rustic. Plans being prepared.

SCHOOL—1 story, frame. Cost not stated. Ettersburg, Humboldt Co., Cal. Architect, none. Owners, Wildcat School District. Designed for a district school and will contain two class rooms. Interior finish pine and redwood. Exterior rustic. Plans being figured and bids open June 1st. Plans can be secured from Fred J. Etter, Ettersburg.

BRIDGE—Steel and concrete. Cost not stated. San Andreas, Calaveras Co., Cal. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. Bids will be received until June 5th at 1 p. m. for furnishing all material and labor for the construction complete of a reinforced concrete bridge of the girder type over the Middle Fork of the Mokelumne River near the town of West Point on the main county road leading from the town of West Point to Mokelumne Hill.

Contracts Awarded

SEWER CONSTRUCTION Cost as follows. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractor, W. F. Edwards, 675 31st, Oakland, lateral sewers in Fair Oaks, $11,978.57. Chambers & Heafey, Bacon Bldg., Oakland, laterals in Villa Addition, $1,877.08.

Reject Figures For Tuolumne Bridge.

Work Will Not be Re-advertised Until Conditions of Steel Market are More Settled.

All figures received May 9th by the Board of Supervisors of Stanislaus County for the construction of the reinforced concrete bridge over the Tuolumne River at Modesto have been rejected and new figures will not be called for until the steel market has returned to normal. Plans for the bridge were prepared by Consulting Engineers Leonard & Day, Rialto Bldg., San Francisco. C. E. Cotton, 544 32nd Street, Oakland, presented the lowest bid of the sixteen received. Following is a complete list of the bids:

Tuolumne River Bridge.

C. E. Cotton, Oakland	$112,397.00
Howard S. Williams, S. F.	115,760.00
Manning Bros., Fresno	116,900.00
Ernest Green, Modesto	119,423.70
McLeran & Peterson, S. F.	119,967.00
Clinton Constr. Co., S. F.	124,900.00
Teichert & Ambrose, Sacramento	136,780.00
Worswick Constr. Co., Los Banos	137,500.00
Collman & Duncan, S. F.	137,640.00
Seabury B. Peterson Co., S. F.	137,996.00
Ross Constr. Co., Sacramento	138,870.00
Messmer & Rice, Los Angeles	142,013.00
Peterson & Grier, S. F.	143,900.00
V. M. Price, S. F.	149,900.00
Blake Bros. Co., Oakland	151,000.00
The Snare & Triest Co., N. Y.	155,980.00

STREET PAVING—$61,866.42. Stockton San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractors, Clark & Henery, 38 South Henry street, Stockton. Contract price, $61,866.42.

ROAD IMPROVEMENT—Cost as follows. Auburn, Placer Co., Cal. Engineer, City Engineer, Auburn. Owners, City of Auburn. Contractors, Marsh Bros., Monadnock Bldg., S. F. Contract price, 8½c per cubic yard of material moved.

CLEARING ROAD—$1,000. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contractor, Thomas Engelhart, 679 16th street, Eureka. Contract price, $1,000.

LODGE HALL HEATING—4 story and base. Class A construction. Cost as follows. Sacramento, Cal. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Scottish Rite Hall Association. Contractors, Ideal Heating Co., 1892 Folsom street, S. F. Contract price, $4,797.

Bids Received For Hospital Ward.

Matthews Constr. Company Present Low Figure for Ward Building for Sacramento County Hospital.

(By Special Wire)

SACRAMENTO, CAL., Map 8th, 1916—Seven sets of figures were opened by the Supervisors for the construction of a two-story hollow tile ward building to be erected at the County Hospital. The building was designed by Architect R. A. Herold, Forum Bldg., Sacramento.

Matthews Construction Co., Sacramento, presented the low figure for the work at $37,477. Bids were referred to th Contract Committee. Following is a complete list of the bids as received:

Ward, Sacramento County Hospital.

Matthews Constr. Co.	$37,477
Harvey A. Klyce	37,533
William C. Keating	37,640
McLeran & Peterson	37,990
Teichert & Ambrose	38,465
Siller Bros.	39,448
William M. Murcell	39,547

LOS ANGELES AND SOUTHERN CALIFORNIA

STREET IMPROVEMENTS — $11,745. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. J. Hein, 511 Stimson Bldg., L. A., was the lowest bidder at $11,745 for constructing oiled macadam paving and concrete curb on 1.35 miles of 10th street and Antelope avenue, Lancaster, in Road Improvemtnt District No. 93.

IRRIGATION PROJECT — $350,000. San Dimas, Los Angeles Co., Cal. Engineer's name not given. Owner, M. L. Hazzard, San Dimas, M. L. Hazzard has applied to the State Water Commission to appropriate 2,000 second feet of water in San Dimas Canyon tributary to the San Gabriel River for irrigation work. In the proposed improvement there will be a canal four miles long, a concrete diversion dam, a storage reservoir impounding 15,000 acre feet, the dam to be 130 feet high, 550 feet on top and 25 feet at bottom with a width on top of seven feet, said dam to be of the arch principle, concrete construction.

WATER SYSTEM RECONSTRUCTION—$90,000. Calexico, Imperial Co., Cal. Engineer, H. W. Blaisdell, Calexico. Owner, City of Calexico. Consulting Engineer H. W. Blaisdell has been instructed to prepare plans and specifications for the reconstruction and enlargement of the city water system and city pumping plant. This part of the work will be rushed as soon as construction work is under way on the reservoirs, pump house, etc. Lloyd Prewitt is the water and street superintendent.

RESIDENCE — 2 story and base, frame. Cost not stated. Brentwood Park, Los Angeles Co., Cal. Architect, Frank T. Kegley and Scott Gerrity, Consolidated Realty Bldg., L. A. Owner, Lawrence Phipps. Location, Brentwood Park. Will contain twenty-two rooms, five baths and sleeping porches. Interior finish hardwood, white enamel and cedar. Three furnaces. Hardwood floors throughout. Bath rooms tile. Seven open fire places and tile or brick mantels. Hot water circulating system. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HIGHWAY WORK—$28,100. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Fred Hoffman of Long Beach was the lowest bidder at $28,100 for improving certain streets in the townsite of Willowbrook in Road Improvement District No. 96. The next lowest bid was submitted by Conner Contracting Co. for $28,400. Engineer's estimate, $33,485.

STREET IMPROVEMENTS — Cost not stated. Glendale, Los Angeles Co., Cal. Engineer, Superintendent of Streets T. W. Watson, Glendale. Owners, City of Glendale. Bids will be received by the street superintendent, T. W. Watson, at his office in the city hall, 575 West Broadway, up to 7:30 p. m. of May 22nd for improving certain portions of Brand Boulevard intersections with First street and Doran street, in accordance with specification on file at the office of the City Clerk. Certified check or bond for 10 per cent required.

STREET IMPROVEMENT—Cost not stated. Redondo, Los Angeles Co., Cal. Engineer, City Engineer, Redondo. Owners, City of Redondo. Bids will be received by the City Clerk up to 8 p. m. of May 22nd, 1916, for improving Opal street, between Catalina and Irena avenues; and Jasper street, between Irena and Maria avenues, in accordance with specifications which may be obtained at the office of the City Engineer The work on Opal street will include 139,000 square feet of paving, 6,260 square feet of cement sidewalk, and 1,560 linear feet of cement curb. The work on Jasper street will include 60,200 square feet of paving, 11,000 square feet of cement sidewalk and 2,200 linear feet of cement curb. Certified check for ten per cent is required. C. O. Mangold is the City Clerk.

BRIDGE CONSTRUCTION—$1,000,000. Los Angeles, Cal. Engineer, Parker, Santa Fe Railroad Co., L. A. Owners, Santa Fe System. The Santa Fe Railway Co. is preparing to expend in the neighborhood of $1,000,000 for the construction of bridges and equipment between San Diego and Los Angeles. The engineering department is at present planning a steel and concrete bridge to cross San Luis Rey River at Oceanside to cost about $80,000. Superintendent of Bridges Parker is in charge of the work.

CULVERT — Reinforced concrete, $17,561. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Andrew Holloway, 471 South Broadway, Pasadena, submitted the lowest bid at $17,561 for the construction of a reinforced concrete viaduct 242 feet long, 20 feet wide over the ravine, Pacific Electric tracks and Ionia avenue, on Western avenue. The bids received were referred to the Road Commission.

RESIDENCE — 2 story and base, hollow tile. Cost not stated. Oak Knoll, Los Angeles Co., Cal. Architects, Marston & Van Pelt, Chamber of Commerce Bldg., Pasadena. Owner, A. L. Garford. Location, Hillcrest avenue Will contain twelve rooms, three baths and sleeping porch. A separate garage will be erected. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system and open fire places. Vacuum cleaning and hot water supply. Bath rooms finished in tile. Mantels tile and brick. Exterior faced with cement plaster. Plans being prepared.

RESIDENCE—2 story and base, hollow tile, $40,000. Pasadena, Los Angeles Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Location, Arroyo Seco. Will contain seventeen rooms, and five baths. Separate garage and stables. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except the baths which will be finished in tile. Central heating system, hot water supply and vacuum cleaning. Open fire places and tile or brick mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

CHURCH—2 story and base, brick, $15,000. Whittier, Los Angeles Co., Cal. Architect, Paul V. Tuttle, Delta Bldg., L. A. Owners, Friends Congregational Church. Building will cover an area of 95 by 102 feet and will contain a main auditorium, Sunday school rooms, social hall and pastor's study. Interior finish pine and redwood with some white enamel. Art glass windows and central heating system. Exterior covered with cement plaster. Plans are being prepared.

CHURCH—2 story and base. Class A construction, $300,000. Los Angeles, Cal. Architect, Bertram G. Goodhue, 2 West 47th street, New York City. Owners, St. Vincent's Catholic Church. Location, northwest Figueroa and Adams. Only preliminary plans have been prepared and details of construction cannot be given at this time. The preliminary plans have been approved and further mention will be made of the work.

CHURCH—1 and 2 story and base, frame and plaster, $15,000. Los Angeles, Cal. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owners, St. James Methodist Episcopal Church. Location, southwest corner of 22nd and Union. Main auditorium will seat 300 people. Sunday school rooms, social hall and pastor's study. Interior finish pine, hardwood and ornamental plaster. Central heating

system and vacuum cleaning. Art glass windows. Exterior covered with cement plaster. Plans complete and figures being taken.

CHURCH—1 story and base, brick, $30,000. Glendale, Los Angeles Co., Cal. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owners, Glendale Methodist Church. Will cover a ground area of 80 by 140 feet. Will contain auditorium, Sunday school rooms and social hall. Interior finish pine and hardwood with some ornamental plaster and art glass windows. Central heating system. Exterior faced with pressed brick. Plans being prepared.

HOSPITAL ADDITION—3 story and base, reinforced concrete, $40,000. Los Angeles, Cal. Architect, Albert C. Martin, Higgins Bldg., L. A. Owners, Los Angeles Hospital. Location, Trinity street near Washington. Will contain 27 private rooms with baths and accommodations for the nurses. Interior finish hardwood and tile. Hardwood floors. Steam heat from the present system. Hot water supply and vacuum cleaning. Exterior faced with cement plaster. Plans complete and figures being taken.

SCHOOL—1 and 2 story and base, brick and hollow tile, $55,000. Culver City, Los Angeles Co., Cal. Architect, Oliver P. Dennis, Fay Bldg., L. A. Owners, Culver City School District. Will contain eight class rooms, assembly hall and departments for domestic science and manual training. Interior finish pine with maple floors. Central heating system and vacuum cleaning. Exterior faced with cement plaster. Plans are being prepared.

SCHOOL—1 story and base, hollow tile. Cost not stated. Downey, Los Angeles Co., Cal. Architect, John C. Austin, Baker-Detwiler Bldg., L. A. Owners, Downey School District. Will cover an area of 136 by 145 feet and contain eight class rooms, auditorium and library. Interior finish pine with maple floors in the class rooms. Central heating system, oil burning furnace and vacuum cleaning. Exterior faced with cement plaster. Plans are complete and figures being taken. Bids

STORES AND LOFTS—3 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owner, Valentine Kratz. Location, Los Angeles street near 8th, covering an area of 55 by 147 feet. Interior finish pine. Metal window sash and frames. Elevator service. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded

CITY HALL—2 story and base, brick, $13,340. Burbank, Los Angeles Co., Cal. Architects, E. R. Farley and F. B. Schaefer, Van Nuys Bldg., L. A. Owners, City of Burbank. Contractor, P. A. Farley, Burbank. Contract price, $13,340.

RESIDENCE — 2 story and base, hollow tile, $21,545. Oak Knoll, Los Angeles Co., Cal. Architect, Myron Hunt, Hibernian Bldg., L. A. Owner, C. H. Baker. Contractor, Peter Hall, 769 North Marengo avenue, Pasadena. Contract price, $21,545.

APARTMENT HOUSE—4 story and base, brick, $34,000. Los Angeles, Cal. Architect, Frederick Noonan, Investment Bldg., L. A. Owner, Mrs. M. O. Head. Contractors, Barkelew & Gould, Builders' Exchange, L. A. Contract price, $34,000.

APARTMENT HOUSE—4 and 7 story and base. Class A construction. Cost not stated. Los Angeles, Cal. Architect, W. J. Saunders, Laughlin Bldg., L. A. Owner, C. F. Borton, Hibernian Bldg., L. A. Contractor, Al. Nelson, 1812, West 53rd street, L. A., general construction. Southern California Iron and Steel Co., 4th and Modesto streets, L. A., reinforcing steel. Riverside Cement Co., cement. Other contracts to be awarded as the work progresses.

FACTORY—1 story and base, brick, $40,000. Los Angeles, Cal. Architect, J. Schultz, Wright and Callender Bldg., L. A. Owners, Southern California Box Co. Contractor, J. A. Cook, Baker-Detwiler Bldg., L. A. Contract price, $40,000.

FACTORY—2 story and base. Class C construction, $35,000. Los Angeles, Cal. Architect, J. M. Cooper, 830 McGarry street, L. A. Owners, Van Vorst & Berman, 1333 East 5th street, L. A. Contractors, The Alta Planning Mill Co., 830 McGarry street, L. A. Contract price, $35,000.

WAREHOUSE—2 story and base, brick, $40,000. Oxnard, Ventura Co., Cal. Architects, Krempel & Erkes, Henne Bldg., L. A. Owners, American Beet Sugar Co. Contractors, Leonard & Peck, H. W. Hellman Bldg., L. A. Contract price, $40,000.

HOTEL—3 story and base, brick, $27,500. San Pedro, Los Angeles Co., Cal. Architect, none. Owner, Dr. R. W. Hill. Contractors, Anderson & Silva, 619 Bacon street, San Pedro. Contract price, $27,500.

PORTLAND AND OREGON

APARTMENT HOUSE—4 story and base, brick. Cost not stated. Roseburg, Ore. Architect, F. Manson White, Chamber of Commerce Bldg., Portland. Owner, Mayor White. Will contain a number of three and four room suites with private baths and wall beds. Interior finish pine and white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Automatic elevator. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

SEATTLE AND WASHINGTON

REFRIGERATION EQUIPMENT — $65,000. Seattle, Wash. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids have been called for by the Port of Seattle Commission, Bell street dock, to be opened May 24th, for the installation of the refrigeration equipment and electric work in the apple storage warehouse. The improvement will be complete for the seven floors and include the ammonia compressor and auxiliary equipment, piping, etc.

WATER SYSTEM—$500,000. Everett, Wash. Engineers, Burns & McDonnel, Kansas City, Mo. Owners, City of Everett. Bids have been ordered up to June 5th for the construction of the proposed waterworks system. Separate bids will be received (1) for construction of a dam and headworks, four tunnels, laying and furnishing of cast iron pipe and construction of 25 miles of wood stave pipe, cost about $200,000; (2) furnishing and laying of about 20 miles of wood stave pipe, cost $200,000; (3) furnishing and laying of 23,000 feet of riveted or Matheson joint steel pipe, cost $100,000. Plans may be secured from Louis Lesh, City Clerk at Everett.

HOW TO APPRECIATE ART. A SUMMER SESSION SUBJECT

Since the Fine Arts Building at the Exposition has been rescued from destruction, and since the art collections at the Exposition, (a more adequate representation of current movements in art than could be seen anywhere else in America during the past year) have greatly stimulated interest in art throughout California, courses in drawing, out-door sketching, and art appreciation are to be made a special feature of the approaching Summer Session of the University of California, from June 26 to August 5.

"Gothic and Renaissance Art" and "The Appreciation of Art: Classic and Eastern," will be the subject of two courses of lectures from June 26 to July 13 by Ian C. Hannah, formerly President of Kings College, Nova Scotia, now Lecturer in Art in the Oxford and Cambridge University Extension Systems.

In the course on "Gothic and Renaissance Art" President Hannah will discuss the beginnings and the culmination of Gothic Art, the origins of national styles, the art of ancient and mediaeval Ireland, early painting in Italy, the art of midaeval France, the Renaissance, the Dutch School, Colonial art in America, and Gothic and Spanish influences on American art.

In fifteen evening lectures on "The Appreciation of Art,, he will interpret the primitive art of Egypt, the glories of Greece and Rome, the art of Byzantium, the Moslem world, and China, landscape gardening in Japan, the Gothic tapestry-weavers, the restortation of classic ideals by the Renaissance, American architecture, and the modern art of town-planning and city gardening as developed in America.

Another course of lectures in the history of art will be by Professor Oliver Miles Washburn, on ancient art, from the extraordinary wall-paintings of the cave-dwellers of 25,000 years ago down through the work of Assyria, Troy, and Egypt to the unsurpassed achievements of Greece.

There will be courses also in elementary design, in freehand and perspective drawing, in drawing from the antique, in figure drawing and composition, in painting from still life, and in out-of-door sketching, and work for teachers, including various new methods of teaching graphic art in the schools.

MODESTO BRICK PLANT.

MODESTO—The project of a plant for making brick at a plant to be established north of town has been revived and a company is to be formed under the name of the Union Brick and Tile Co. William Anderson, an experienced manufacturer of brick, tile and building blocks, is taking a lead in the project. Tests of the clay are now being made and it is hoped to have the plant under way this summer, employing a number of men.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1332	Ham	Ham	5000
1333	Ham	Ham	5000
1334	Kenny	Ham	3000
1335	Briasco	Briasco	3000
1336	Koenig	Koenig	2000
1337	Same	Same	2000
1338	Same	Same	2000
1339	Same	Same	2000
1340	Leigh	Leigh	4000
1341	Hoin	Hoin	8000
1342	McMillan	McMillan	6000
1343	S F Laundry	Gillespie	400
1344	Thomson	Bailey	400
1345	Hamill	Hamill	3000
1346	Perry	Perry	2900
1347	City & Co of S F	Scott	24715
1348	Same	Lawson	44095
1349	Same	Hock	59750
1350	Same	Monson	184374
1351	Christiansen	Owner	4000
1352	St. Ores	St. Ores	1900
1353	McLean	McLean	3000
1354	Nelson	Nelson	2000
1355	Pockman	Pockman	4000
1356	Schoeppe	Schoeppe	3250
1357	Myers	MacDonald	10000
1358	Same	Same	20000
1359	Curtaz	Thunberg	1735
1360	Weil	Malloch	3950
1361	Otis	Klimm	——
1362	Same	Central	——
1363	Same	Dennis	——
1364	Same	Steere	——
1365	McKee	McKee	14500
1366	Schnee	Schnee	3000
1367	Gerard	Gerard	22500
1368	Mutual Bond	Owner	5000
1369	City&Co of S F	McSheehy	186428
1370	Same	Holt	22670
1371	Same	Coleman	4993
1372	Same	Central Elec	994
1373	Same	Roberts	897
1374	Ghirardelli	Kurtz	4550
1375	Sachau	S F Elevator	930
1376	Kleinhaust	Knight	5386
1377	Smith	Davis	10000
1378	Sigliati	Devencenzi	1500
1379	Phillips	Metter	1800
1380	Meyers	Hanson	3000
1381	Fremy	Greffen	1250
1382	McDougall	Leiter	85000
1383	Edmundsen	Lindberg	1800
1384	Groat	Groat	2800
1385	Marchi	Faggioni	2500
1386	Herrick	Jones	2950
1387	Foster	Cohurn	1900
1388	Davies	Binet	3000
1389	Battini	Devencenzi	1600
1390	Hannan	Gilmour	2250
1391	Newell	Higginson	2750
1392	Rapp	Lorenzen	500
1393	Haight St. Th.	Brumfield	1490
1394	Anderson	Harder	750
1395	Carpignano	Orri	850
1396	Bennett	Disston	400
1397	Metzen	Leiter	600
1398	Gabiati	Gabiati	400
1399	Nichols	Leiter	600
1400	Dipple	Madden	425
1401	Harvard	Swenson	500
1402	S F Home Bldg	Nelson	2500
1403	Same	Same	2500
1404	Same	Same	2500
1405	Same	Same	2500
1406	Quinn	Quinn	450
1407	Babin	Babin	500
1408	Schutt	Schutt	3700
1409	Troye	Troye	1000
1410	Dippel	Donahue	400
1411	Scoble	Scoble	9000
1412	Swall	Moller	5500
1413	Swall	Moller	5500
1414	Raisch	Raisch	3000
1415	Same	Same	3000
1416	Same	Same	3000
1417	Same	Same	3000
1418	Ch Scientist	Rainey	8950
1419	Same	Snook	873
1420	Barry	Montgomery	7524
1421	Cebrian	Otis	3895
1422	R C Archb.	Anderson	40000
1423	Same	Decker	2974
1424	Same	Bernard	6340
1425	Yager	Yager	23000
1426	Romanov	Coburn	3237
1427	Orange Blossom	Sullivan	375
1428	S P Co.	Western Motor	——
1429	Campbell	Campbell	5000
1430	Same	Same	5000
1431	Same	Same	5000
1432	Same	Same	5000
1433	Same	Same	10000
1434	Nelson	Nelson	2900
1435	Same	Same	2900
1436	Obatz	Obata	400
1437	Rasmussen	Rasmussen	500
1438	Allred	Allred	1950
1439	Allred	Allred	1950
1440	Allred	Allred	1950
1441	Christenson	Owner	1800
1442	Mer Nat'l Bk	Marsden	400
1443	Anderson	Johnson	400
1444	Welch	Johnson	1000
1445	Mignault	Mignault	800
1446	Bevine	Broad	400
1447	Minoli	Delucchi	500
1448	Prog. nvst	Steur	56000
1449	Allen	Allen	4750
1450	Allen	Allen	4500
1451	Allen	Allen	5000
1452	Sattler	Hantzsche	5708
1453	Wood	Schrader	1488
1454	Same	Henderson	13500
1455	Same	Brady	7475
1456	Same	Camp	3848
1457	Same	Fay	2620
1458	Same	Coleman	[illegible]
1459	Peyser	Schrader	[illegible]
1460	Same	Henderson	135[illegible]
1461	Same	Brady	[illegible]
1462	Same	Camp	3668
1463	Same	Fay	2620
1464	Same	Coleman	4286
1465	S P Co.	McGinn	——

FRAME FLATS

(1332) W FOURTEENTH AVE 69-11 N Anza. Two-story and basement frame (2) flats.

Owner.....L. B. Ham, 274 25th Ave., San Francisco.

Architect ...None.

Day's work. COST, $5000

FRAME FLATS

(1333) W FOURTEENTH AVE 44-11 N Anza. Two-story and basement frame (2) flats.

Owner.....L. B. Ham, 274 25th Ave., San Francisco.

Architect ...None.

Day's work. COST, $5000

FRAME DWELLING

(1334) E NINETEENTH AVE 25 S Balboa. Two-story and basement frame dwelling.

Owner.....W. R. Kenny, 430 Arguello Blvd., San Francisco.

Architect ...None.

Day's work. COST, $3000

FRAME FLATS

(1335) S FILBERT 135-4 W Van Ness Ave. Two-story and basement frame (2) flats.

Owner.....A. Briasco, 2935 Octavia, San Francisco.

Architect ...L. Traverso, 854 Union, San Francisco.

Day's work. COST, $3000

FRAME RESIDENCE

(1336) E PARIS 200 N Russia. One and one-half-story and basement frame residence.

Owner..... Chas. J. U. Koenig, 520 Church, San Francisco.

Architect ...None.

Day's work. COST, $2000

FRAME RESIDENCE

(1337) E PARIS 225 N Russia. One and one-half-story and basement frame residence.

Owner.....Chas. J. U. Koenig, 520 Church, San Francisco.

Architect ...None.

Day's work. COST, $2600

FRAME RESIDENCE

(1338) E PARIS 275 N Russia. One and one-half-story and basement frame residence.

Owner.....Chas. J. U. Koenig, 520 Church, San Francisco.

Architect ...None.

Day's work. COST, $2000

FRAME RESIDENCE

(1339) E PARIS 250 N Russia. One and one-half-story and basement frame residence.

Owner.....Chas. J. U. Koenig, 520 Church, San Francisco.

Architect ...None.

Day's work. COST, $2000

FRAME FLATS

(1340) N CALIFORNIA 37-9 W Seventh Ave. Two-story and basement frame (2) flats.

Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.

Architect ...None.

Day's work. COST, $4000

FRAME APARTMENTS

(1341) S WASHINGTON 152 W Polk. Three-story and basement frame (6) apartments.

Owner.....Minnie Hoin, 1449 Hyde, San Francisco.

Architect ...Albert W. Burgren, 30 Woodland Ave., S. F.

Contractor..Theo. S. Hoin, 1449 Hyde, San Francisco.

COST, $8000

FRAME RESIDENCE

(1342) NE BALBOA AND FIFTEENTH Ave. One-story and basement frame residence.

Owner.....R. and C. F. McMillan, 1724 Page, San Francisco.

Architect ...J. Chas. Flugger, 766 2nd Ave., San Francisco.

Contractor..R. McMillan, 1724 Page, San Francisco.

COST, $6000

ALTERATIONS

(1343) W FILLMORE 18 N Turk. Alter store.

Owner.....S. F. Laundry, 1408 Turk, San Francisco.

Architect ...None.

Contractor..G. G. Gillespie, 2214 Divisadero, San Francisco.

COST, $400

ALTERATIONS

(1344) NO. 799 KANSAS. Alter bakery

Owner.....E. Thomson, 1014 Bryant, San Francisco.

Architect ...None.

Contractor..E. Bailey, 310 Excelsior, San Francisco.

COST, $400

FRAME RESIDENCE

(1345) N CLEMENT 75 E 30th Ave.

Two-story and basement frame residence.
wner.....Thos. Hamill, 5535 Geary, San Francisco.
rchitect ...None.
ay's work. COST, $3000

RAME DWELLING
(1346) W SIXTEENTH AVE 175 S Balboa. Two-story and basement frame dwelling.
wner.....Fred K. Perry, 2123 Clement, San Francisco.
rchitect ...None.
ay's work. COST, $2900

IEATING, ETC.
(1347) E POTRERO AVE, bet. 21st & 23rd. Heating and ventilating of northeast wing of San Francisco Hospital also Nurses' Home.
wner.....City & County of San Francisco.
rchitect ...John Reid Jr., Chronicle Bldg. S. F.
ontractor..Scott Co., 243 Minna, S. F.
COST, $24,715

(1348) PLUMBING ON ABOVE.
ontractor..Herman Lawson, 341 4th Ave., San Francisco.
COST, $44,095

(1349) BRICK AND TERRA COTTA work on above.
ontractor..Charles Hock, 1788 Fell, San Francisco.
COST, $59,730

(1350) GENERAL CONSTRUCTION ON above.
Contractor..O. Monson, 1908 Bryant, San Francisco.
COST, $184,374

FRAME FLATS
(1351) E SIXTH AVE 25 N Kirkham. Two-story and basement frame (2) flats.
Owner.....John N. Christiansen, 1310 Arguello Blvd., S. F.
Architect ...Koenig & Christiansen, Humboldt Bank Bldg., S. F.
Day's work. COST, $4000

FRAME DWELLING
(1352) E TWENTY-SIXTH AVE 100 N Balboa. One-story and basement frame dwelling.
Owner.....W. F. St. Ores, 456 25th Ave., San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME FLATS
(1353) E FIFTH AVE 500 N Fulton. Two-story and basement frame (2) flats.
Owner.....M. McLean, 590 5th Ave., San Francisco.
Architect ...Plans by Owner.
Day's work. COST, $3000

FRAME DWELLING
(1354) E TWENTY-NINTH AVE 271 S Lincoln Way. One and one-half-story and basement frame dwelling.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(1355) SW NINTH AVE AND GEARY. One and one-half-story and basement frame residence.
Owner.....Fockman & Co., 37th Ave and Geary, San Francisco.
Architect ...A. Bertz.
Day's work. COST, $4000

FRAME APARTMENTS
(1356) E RAILROAD AVE 106 N Revere. Two-story and basement frame store and (3) apartments.
Owner.....Gustav M. Schoeppe, 1423 Palou Ave., San Francisco.
Architect ...None.
Day's work. COST, $3250

BRICK BUILDING
(1357) N BUSH 100 W Van Ness Ave. Two-story and basement brick auto accessorie building.
Owner.....L. A. Myers, Rialto Bldg., San Francisco.
Architect ...None.
Contractor..MacDonald & Kahn, Rialto Bldg., San Francisco.
COST, $10,000

NOTE:—Foundation started.

CLASS "C" STORE, ETC.
(1358) N BUSH 137-6 W Van Ness Ave. Two-story Class "C" store and salesroom.
Owner.....S. Myers, 68 Post, S. F.
Architect ...S. Rosener, Merchants' Exchange Bldg., S. F.
Contractor..Macdonald & Kahn, Rialto Bldg., San Francisco.
COST, $20,000

ALTERATIONS
(1359) NO. 1209 PAGE. All work except plumbing, electrical work and painting for alterations to building.
Owner.....Benj. Curtaz, Premises.
Architect ...None.
Contractor..Gus. E. Thunberg, 640 9th Ave., San Francisco.
Filed May 8, '16. Dated May 4, '16.
Excavation completed $435
Brick & concrete work completed 435
Completed 435
Usual 35 days..... 430
TOTAL COST, $1735
Bond, none. Limit, 60 days from granting permit. Forfeit, none. Plans and specifications none.

ALTERATIONS
(1360) N GEARY — W POLK. All work for alterations and additions to one-story brick building.
Owner.....Chas. B. Weil, 2447 Buchanan, San Francisco.
Architect ...Heiman & Schwartz, Nevada Bank Bldg., S. F.
Contractor..J. S. Malloch, 110 Jessie, San Francisco.
Filed May 8, '16. Dated May 4, '16.
Roof trusses in place.....$1000
White coat plaster on..... 1000
Completed and accepted..... 950
Usual 35 days..... 1000
TOTAL COST, $3950
Bond, $1975. Surety, Guardian Casualty & Guaranty Co. Limit, 35 days from issuance of permit. Forfeit, none. Plans and specifications filed.

PLUMBING WORK
(1361) SE MARKET 75 SW Eighth SW 200 SE 275 NE 155 NW 105 NE 45 NW 170. Plumbing work for alterations to seven-story and basement Class "B" building.
Owner.....James Otis, Trustee, 310 California, San Francisco.
Architect ...Wright & Rushforth, 354 Pine, San Francisco.
Contractor..Frank J. Klimm, 221 Oak, San Francisco.
Filed May 8, '16. Dated May 4, '16.
Labor pay rolls to be paid each week and material bill on 1st of each month .....
TOTAL COST, Contractor to receive cost of labor and materials and 8% additional.
Bond, $1000. Surety, Hartford Accident & Indemnity Co. Limit, as rapidly as possible. Forfeit, $5. Plans and specifications filed.

(1362) ELECTRICAL WORK ON ABOVE
Contractor..Central Electric Co., 175 Jessie, San Francisco.
Filed May 8, '16. Dated Mar. 4, '16.
Payments same as above.....
TOTAL COST, Contractor to receive net cost of material and labor and 15% additional.
Bond, none. Limit, as rapidly as possible. Forfeit, $5. Plans and specifications filed.

(1363) METAL PARTITIONS, SUSpended ceilings, furring, etc., on above.
Contractor..John B. Dennis, Monadnock Bldg., San Francisco.
Filed May 8, '16. Dated May 4, '16.
On 1st of each month..... 75%
30 days after..... 25%
TOTAL COST, Metal partition complete 2½ in. thick, .445c per sq. yard; metal ceilings, 32 c per sq yd.; metal walls and column furring, .445c per sq. yd., other work, $250.
Bond, none. Limits, as rapidly as possible. Forfeit, $10. Plans and specifications filed.

(1364) LATHING AND PLASTERING on above.
Contractor..Jesse E. Steere, 2267 Hayes, San Francisco.
Filed May 8, '16. Dated May 4, '16.
Payments same as above.....
TOTAL COST, Hardwall plaster on metal, .82 94-100 cts. a sq. yd.; plaster on ceiling soffitts, etc., .87 8-100 sq. yd.; metal lathing for solid hardwall partitions, $1.55 88-100 sq. yd.; one coat work hardwall and concrete, .25 2-10 sq. yd.; all other work in plastering specificational total lump sum of $1097.
Bond, none. Limit, rapidly as required. Forfeit, $10. Plans and specifications filed.

BRICK APARTMENTS
(1365) N GEARY 167 E Polk. Three-story and basement brick (9) apartments.
Owner.....Wm. A. McKee, 3328 24th, San Francisco.
Architect ...D. C. Coleman, Merchants' National Bank Bldg., S. F.
Day's work. COST, $14,500

ALTERATIONS
(1366) NW SAN JOSE AVE AND 26TH. Raise, add and alter present frame building into 4 apartments of 3-rooms each.
Owner.....Gustave Schnee, 80 Silver Ave., San Francisco.
Architect ...O. E. Evans & Co., Inc., 2569 Mission, San Francisco.
Day's work. .. COST, $3000

FRAME APARTMENTS
(1367) N CLAY 167-6 W Hyde. Three story and basement frame (12) apartments.
Owner.....Gerard Invst. Co., 110 Sutter San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Day's work. COST, $22,500

FRAME FLATS
(1368) E NINTH AVE 56 N Lawton. Two-story and basement frame (2) flats.
Owner.....Mutual Bond & Investment Co., 2104 Market, S. F.
Architect ...W. J. Cuthbertson, 328 Montgomery, S. F.
Day's work. COST, $5000

HOSPITAL
(1369) POTRERO AVE., bet. 21st and 23rd. General construction for four-story and basement southeast wing of San Francisco Hospital.
Owner.....City and County of San Francisco.
Architect ...Herman Barth, 12 Geary, San Francisco.
Contractor..McSheehy Bros., 74 Langton, San Francisco.
COST, $186,428

ENGINE HOUSE
(1370) PACIFIC AVE., bet. Polk and Van Ness Ave. General construction Engine House No. 8.
Owner.....City & County of San Francisco.
Architect ...John Reid Jr., Chronicle Bldg., San Francisco.
Contractor..O. C. Holt, 369 14th Ave., San Francisco.
COST, $22,670

(1371) PLUMBING ON ABOVE.
Contractor..Alexander Coleman, 706 Ellis, San Francisco.
COST, $4993

(1372) ELECTRIC WORK ON ABOVE
Contractor..Central Elec. Co., 175 Jessie, San Francisco.
COST, $994

(1373) LIGHTING FIXTURES ON above.
Contractor..Roberts Mfg. Co., 663 Mission, San Francisco.
COST, $897

PLUMBING, ETC.
(1374) NW LARKIN & NORTH POINT W 1'2-6xN 275. Plumbing, sewering, gas fitting, heating and electric work for three buildings.
Owner.....D. Ghirardelli Co., Inc., 941 North Point, San Francisco.
Architect ...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..O. Kurtz, 445 Stevenson, San Francisco.
Filed May 9, '16. Dated May 3, '16.
On 1st of each month..... ... 75%
Usual 35 days..... 25%
TOTAL COST, $4550
Bond, $2275. Sureties, F. W. Kurtz and Wm. Kurtz. Limit, without delay. Forfeit, $50. Specifications only filed.

ELEVATOR
(1375) SE GREEN AND BATTERY. All work for one new electric freight elevator.
Owner.....Ella Sachau.
Architect ...T. Patterson Ross, 310 California, San Francisco.
Contractor..San Francisco Elevator Co., 860 Folsom, San Francisco.
Filed May 9, '16. Dated Jan. 21, '16.
On delivery of machinery and erection of guides..... 50%
On starting up..... 25%
Usual 35 days..... 25%
TOTAL COST, $930
Bond, $465. Sureties, B. Heinrich and Jno. A Peterson. Limit, forfeit, none. Plans and specifications filed.

FRAME FLATS
(1376) E FOURTH AVE 125 N Geary 25x120. All work for two-story and basement frame flats.
Owner.....Moses Kleinhaupt, 1750 Hyde, San Francisco.
Architect ...Plans by Contractor.
Contractor..Chester L. Knight, 467 Rolph, San Francisco.
Filed May 9, '16. Dated May 8, '16.
Rough frame up.....$1396.00
Brown coated 1396.00
Completed and accepted..... 1396.00
Usual 35 days..... 1398.50
TOTAL COST, $5586.50
Bond, $2800. Sureties, Emily G. Knight and Geo. Creon. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(1377) NO. 840 HAYES. Alterations and additions for apartments.
Owner.....R. K. Smith, 2600 Jackson, San Francisco.
Architect ...Ernest Coxhead, Hearst Bldg., San Francisco.
Contractor..B. S. Davis, 133 Merchant, San Francisco.
COST, $10,000

FRAME DWELLING
(1378) W HOLYOKE 200 N Silliman. One-story and basement frame dwlg.
Owner.....Renanto Sigliati, 154 Berlin San Francisco.
Architect ...None.
Contractor..Louis M. Devencenzi, 415 Girard, San Francisco.
COST, $1500

FRAME DWELLING
(1379) E FORTY-FIRST AVE 200 S Irving. One-story and basement frame dwelling.
Owner.....W. M. Phillips, 1326 41st Ave., San Francisco.
Architect ...None.
Contractor..Chas. Metter, 545 Sanchez, San Francisco.
COST $1800

FRAME SLAUGHTER HOUSE
(1380) SE NEWHALL & DAVIDSON. One-story and basement frame slaughter house.
Owner.....J. Meyers & Co., California Market, San Francisco.
Architect ...None.
Contractor..F. A. Hanson, 155 Delano Ave., San Francisco.
COST, $3000

FRAME DWELLING
(1381) SW LOBOS AND PLYMOUTH. One and one-half-story and basement frame dwelling.
Owner.....Henry Fremy, 837 Broadway, San Francisco.
Architect ...None.
Contractor..Clovis Greffen & C. Desinen, 203 Bartlett, S. F.
COST, $1250

BRICK STORES, ETC.
(1382) NW MISSION AND EIGHTH. One-story brick (29) stores and work shops.
Owner.....B. G. McDougall, 827 Sheldon Bldg., San Francisco.
Architect ...B. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..E. Leiter & Sons, Call Bldg San Francisco.
COST, $85,000

FRAME DWELLING
(1383) W GATES 75 N Powhattan. One and one-half-story and basement frame dwelling.
Owner.....Mrs. M. Edmundsen, 104 Gates, San Francisco.
Architect ...None.
Contractor..Arthur Lindberg, 72 Gates, San Francisco.
COST, $1800

FRAME RESIDENCE
(1384) E TWENTY-FIRST AVE 50 N Irving. Two-story and basement frame residence.
Owner.....Laura Groat, 1271 21st Ave., San Francisco.
Architect ...None.
Contractor..W. H. Martin, 1278 21st Ave., San Francisco.
COST, $2800

FRAME FLATS
(1385) E OAKWOOD 213 S 18th. Two-story and basement frame (2) flats.
Owner.....C. Marchi, 55 Oakwood, San Francisco.
Architect ...J. Bisio, 215 Brazil Ave., San Francisco.
Contractor..C. Faggioni, 1856 Brazil Ave., San Francisco.
COST, $2500

FRAME RESIDENCE
(1386) W NINETEENTH AVE 175 S Clement. Two-story and basement frame residence.
Owner.....G. E. Herrick, Inc., 613 Merchants' Exchange Bldg., San Francisco.
Architect ...None.
Contractor..O. E. Jones, 613 Merchants' Exchange Bldg., S. F.
COST, $2950

ALTERATIONS
(1387) NOS. 137-139 GRANT AVE. Tile floors, mezzanine floor, change front, etc.
Owner.....Foster & Orear, 137 Grant Ave., San Francisco.
Architect ...Alfred H. Jacobs, 110 Sutter, San Francisco.
Contractor..Ira W. Coburn, 180 Jessie, San Francisco.
COST, $1900

RESIDENCE
(1388) E TWELFTH AVE 125 S Lawton 25x120. Plumbing, painting, etc., for two-story and basement residence
Owner.....Mrs. Elsa Davies, 12-A Sanchez, San Francisco.
Architect ...W. G. Hind, 46 Kearny, San Francisco.
Contractor..John J. Binet, 68 Ramona, San Francisco.
Filed May 10, '16. Dated May 10, '16.
Frame up $750
Brown coated 750
Completed 750
Usual 35 days..... 750
TOTAL COST, $3000
Bond, none. Limit, 90 days from May 10, 1916. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1389) W LIPPARD 175 S Bosworth. One-story and basement frame dwlg.
Owner.....V. Battini, Premises.
Architect ...None.
Contractor..L. M. Devencenzi, 415 Girard, San Francisco.
COST, $1600

FRAME BUILDING
(1390) W GILBERT 252-6 N Brannan. All work except street work for one-story and basement frame building.

ALTERATIONS
(1391) LOT 2 BLK 2540 Forest Hill
Owner.....Mrs. Metzen, Premises.
Architect ...None.
Contractor..E. T. Leiter & Sons, 412 Call Bldg., S. F.
COST, $600

ALTERATIONS
(1398) NO. 804 MONTGOMERY. Alter for sausage factory.
Owner.....L. Gahiati, Premises.
Architect ...None.
Day's work. COST, $400

ADDITION
(1399) NO. 1910 GOUGH. Add porch.
Owner.....Mrs. J. F. Nichols, Prem.
Architect ...H. H. Meyers, Kohl Bldg., San Francisco.
Contractor..E. T. Leiter & Sons, 412 Call Bldg., S. F.
COST, $600

UNDERPIN
(1400) SW FAIRFAX & RAIL ROAD Ave. Underpin rooming house.
Owner.....John Dipple, 495 Rail Road Ave., San Francisco.
Architect ...None.
Contractor..P. H. Madden, 1527 Jerrold, San Francisco.
COST, $425

ALTERATIONS
(1401) NO. 1124 MARKET. Alter for store.
Owner.....Harvard Shoe Co., Prem.
Architect ...None.
Contractor..Swenson & Franzen, 145 Natoma, San Francisco.
COST, $500

FRAME RESIDENCE
(1402) E THIRTY-SEVENTH AVE 150 S Irving. Two-story and basement frame residence.
Owner.....S. F. Home Bldg. Co., 2563 San Francisco.
Architect ...None.
Contractor..Emil Nelson, 244 Rivoli San Francisco.
COST, $2500

FRAME RESIDENCE
(1403) E THIRTY-SEVETH AVE 200 S Irving. Two-story and basement frame residence.
Owner.....S. F. Home Bldg. Co., 2563 San Francisco.
Architect ...None.
Contractor..Emil Nelson, 244 Rivoli, San Francisco.
COST, $2500

FRAME RESIDENCE
(1404) E THIRTY-SEVENTH AVE 250 S Irving. Two-story and basement frame residence.
Owner.....S. F. Home Bldg. Co., 2563 San Francisco.
Architect ...None.
Contractor..Emil Nelson, 244 Rivoli, San Francisco.
COST, $2500

FRAME RESIDENCE
(1405) E THIRTY-SEVENTH AVE 300 S Irving. Two-story and basement frame residence.
Owner.....S. F. Home Bldg. Co., 2563 San Francisco.
Architect ...None.
Contractor..Emil Nelson, 244 Rivoli, San Francisco.
COST, $2500

ALTERATIONS
(1406) NO. 3378 SIXTEENTH. Alter flats.
Owner.....T. J. Quinn, Premises.
Architect ...Rhodes & Marish, 3372 16th San Francisco.
Day's work. COST, $450

REPAIRS
(1407) NO. 755 COMMERCIAL. Repair fire damage.
Owner.....L. C. Babin Co., 423 Kearny, San Francisco.
Architect ...None.
Day's work. COST, $500

FRAME FLATS.
(1408) W FIFTEENTH AVE 200 S Balboa. Two-story and basement frame (2) flats.
Owner.....Mrs. Lula H. Schutt, 619 12th Ave., San Francisco.
Architect ...None.
Day's work. COST, $3700

FRAME DWELLING
(1409) NO. 763 KANSAS. One-story and basement frame dwelling.
Owner.....Mat. Troye, Premises.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(1410) NO. 322 RAIL ROAD AVE. Raise and underpin store and flat.
Owner.....John Dippel, 312 Rail Road Ave., San Francisco.
Architect ...None.
Contractor..P. A. Donahue, 100 West Mission, San Francisco.
COST, $400

FRAME RESIDENCE
(1411) E COMMONWEALTH AVE 128 N Geary. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $9000

FRAME FLATS
(1412) E HOWARD 177-6 N 20th. Two story and basement frame flats.
Owner.....Peter Swall Est., 736 Call Bldg., San Francisco.
Architect ...None.
Contractor..R. W. Moller, 185 Stevenson, San Francisco.
COST, $5500

FRAME FLATS
(1413) E HOWARD 155 N 20th. Two-story and basement frame flats.
Owner.....Peter Swall Est., 736 Call Bldg., San Francisco.
Architect ...None.
Contractor..R. W. Moller, 185 Stevenson, San Francisco.
COST, $5500

FRAME DWELLING
(1414) E SEVENTH AVE 25 N Kirkham. Two-story and basement frame dwelling.
Owner.....A. J. Raisch, Crocker Bldg., San Francisco.
Architect ...None.
Contractor..Cox Bros., 5th Ave and Lincoln Way, S. F.
COST, $2000

FRAME DWELLING
(1415) E SEVENTH AVE 50 N Kirkham. Two-story and basement frame dwelling.
Owner.....A. J. Raisch, Crocker Bldg., San Francisco.
Architect ...None.

Contractor..Cox Bros., 5th Ave and Lincoln Way, S. F.
COST, $3000

FRAME DWELLING
(1416) E SEVENTH AVE 75 N Kirkham. Two-story and basement frame dwelling.
Owner.....A. J. Raisch, Crocker Bldg., San Francisco.
Architect ...None.
Contractor..Cox Bros., 5th Ave and Lincoln Way, S. F.
COST, $3000

FRAME DWELLING
(1417) E SEVENTH AVE 100 N Kirkham. Two-story and basement frame dwelling.
Owner.....A. J. Raisch, Crocker Bldg., San Francisco.
Architect ...None..
Contractor..Cox Bros., 5th Ave and Lincoln Way, S. F.
COST, $3000

CLASS "C" CHURCH.
(1418) SE CUMBERLAND AND Dolores S 89 E 105 S 25 E 25 N 114 W 130. Concrete and reinforced concrete, brick work, etc., for one-story and basement, mezzanine and gallery Class "C" church.
Owner.....Second Church of Christ Scientist.
Architect ...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..E. S. Rainey, 110 Jessie, San Francisco.
Filed May 11, '16. Dated Apr. 11, '16.
Brick work up to datum level.. .....$2237.50
Concrete lintels set..... 2237.50
Completed and accepted..... 2237.50
Usual 35 days..... 2237.50
TOTAL COST, $8950.00
Bond, $4475. Surety, The Aetna Accident & Liability Co. Limit, 40 days. Forfeit, $10. Plans and specifications filed.

(1419) ROUGH PLUMBING, ETC., ON above.
Contractor..Frederick W. Snook Co., 596 Clay, San Francisco.
Filed May 11, '16. Dated Apr. 10, '16.
Completed and accepted.....$654.75
Usual 35 days..... 218.25
TOTAL COST, $873.00
Bond, none. Limit, 30 days. Forfeit, $10. Plans and specifications filed.

FRAME APARTMENTS
(1420) W HYDE 117-11 N Broadway W 70xN 19-7. All work for three-story frame apartments.
Owner.....Dolores Barry.
Architect ...O'Brien Bros., Inc., 240 Montgomery, San Francisco
Contractor..E. J. Montgomery, 1320 Broadway, San Francisco.
Filed May 11, '16. Dated May 10, '16.
Frame in place and sheathing exterior & roof ready for roofer.$1410.75
Ready for plaster..... 1410.75
White coated 1410.75
White coated 1410.75
Completed and accepted..... 1410.75
Usual 35 days..... 1881.00
TOTAL COST, $7524.00
Bond, $3762. Sureties, Chas. Schlesinger and Jno. H. Brickwedel. Limit, 120 days. Forfeit, $5. Plans and specifications filed.

ELEVATORS
(1421) SECOND AND BRYANT. All work for 2 electric freight elevators.
Owner.....J. C. Cebrian, 1801 Octavia San Francisco.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Otis Elevator Co., Beach & Stockton, San Francisco.
Filed May 11, '16. Dated May 2, '16.
On shipment of engine..... ½
Elevator installed ..... ¼
Elevator completed ..... ¼
TOTAL COST, $3895
Bond, limit, forfeit, none. Specifications only filed.

CLASS "C" BUILDING
(1422) SE CENTRAL AVE & WALLER S 109-10¾ NE 233-9⅞ W 206-4⅝. Excavation, structural steel, concrete, brick, carpentry, finish woodwork, glazing, galvanized iron, painting, tile, ornamental and wrought iron, plastering, etc., for brick and frame Class "C" structure.
Owner.....Roman Catholic Archbishop of San Francisco.
Architect ...Mathew O'Brien, 68 Post, San Francisco.
Contractor..Anderson & Ringrose, 320 Market, San Francisco.
Filed May 11, '16. Dated Apr. 29, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $40,000
Bond, $20,000. Sureties, W. B. Morris and David Dillon. Limit, 120 days from May 1, 1916. Forfeit, $20. Plans and specifications filed.

(1423) ELECTRICAL WORK ON above.
Contractor..Decker Electrical Constr. Co., 111 New Montgomery, San Francisco.
Filed May 11, '16. Dated Apr. 29, '16.
Payments same as above.....
TOTAL COST, $2974
Bond, $3200. Sureties, R. J. O'Brien and T. F. Kiernan. Limit, 120 days from May 1, '16. Forfeit, $10. Plans and specifications filed.

(1424) PLUMBING, SEWERING, GAS fitting and steam heating on above.
Contractor..George F. Bernard, 110 Jessie, San Francisco.
Filed May 11, '16. Dated Apr. 29, '16.
Payments same as above.....
TOTAL COST, $6340
Bond, $1487. Sureties, H. L. Peterson and N. Andersen. Limit, 120 days from May 1, '16. Forfeit, $10. Plans and specifications filed.

FRAME FLATS
(1425) N LAKE 57-6 W Twenty-sixth Ave W 100x100. All work for four frame buildings of 2 flats and basement each.
Owner.....Grace Yager, 1485 Pine, San Francisco.
Architect ...None.
Contractor..W. W. Yager, 1485 Pine, San Francisco
Filed May 11, '16. Dated May 2, '16.
Roof on $5750
Finish coat plaster on..... 5750
Completed and accepted..... 5750
Usual 35 days..... 5750
TOTAL COST. $23,000
Bond, none. Limit, 85 days. Forfeit, none. Plans and specifications, none.
NOTE:—Buildings are to be erected on property located as follows: N Lake 57-6; 82-6; 107-6 and 132-6 W 26th Ave.

FRAME RESIDENCE
(1426) E TWENTY-SECOND AVE 200 S "T" — 33-4 E 120 S 33-4 W 120. All work for two-story and basement frame residence.
Owner.....Anton A. Romanov.
Architect ...A. W. Burgren, 30 Woodland Ave., San Francisco.
Contractor..Charles Coburn, 4030 24th, San Francisco.
Filed May 11, '16. Dated May 10, '16.
As work progresses..... 75%
When completed, balance..... 25%
TOTAL COST, $3237
Bond, none. Limit, 60 days from recording. Forfeit, none. Plans and specifications filed.

MOVING BUILDING
(1427) NW FRANCISCO & FILLMORE Move Orange Blossom building from Zone, Exposition Grounds.
Owner.....Orange Blossom, Inc., 47 Kearny, San Francisco.
Constr. Manager ...Frederick Whitton, 251 Kearny, San Francisco.
Contractor..D. J. & T. Sullivan, 1942 Folsom, San Francisco.
Filed May 11, '16. Dated Apr. 6, '16.
On completion of work.....$375
TOTAL COST, $375
Bond, $1000. Surety, The Aetna Accident & Liability Co. Limit, 10 days. Forfeit, plans and specifications, none.

GRADING, ETC.
(1428) NAPOLEON, bet. Jerrold and Evans Ave. All work for filling, and grading for roadway, approximately 1700 lineal feet.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..Western Motor Draying Co 351 Noe, San Francisco.
Filed May 11, '16. Dated Mar. 29, '16.
Usual 35 days after completion and acceptance .....Payment
TOTAL COST, $1.50 per lineal ft. of frontage.
Bond, $1200. Surety, The Aetna Accident & Liability Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1429) W CENTRAL AVE 25 N Grove. Two-story and basement frame residence.
Owner.....J. V. Campbell, 1040 Bryant San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME RESIDENCE
(1430) W CENTRAL AVE 49-5¼ N Grove. Two-story and basement frame residence.
Owner.....J. V. Campbell, 1040 Bryant San Francisco.
Architect ...None.
Day's work. COST. $5000

FRAME RESIDENCE
(1431) W CENTRAL AVE 73-10½ N Grove. Two-story and basement frame residence.
Owner.....J. V. Campbell, 1040 Bryant San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME RESIDENCE
(1432) W CENTRAL AVE 98-3¾ N Grove. Two-story and basement frame residence.
Owner.....J. V. Campbell, 1040 Bryant San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME APARTMENTS
(1433) NW CENTRAL AVE & GROVE. Three-story and basement frame (6) apartments.
Owner.....J. V. Campbell, 1040 Bryant San Francisco.
Architect ...None.
Day's work. COST, $10,000

FRAME DWELLING
(1434) E NINETEENTH AVE 100 N Balboa. Two-story and basement frame dwelling.
Owner.....Nelson Bros., 1600 10th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING
(1435) E NINETEENTH AVE 125 N Balboa. Two-story and basement frame dwelling.
Owner.....Nelson Bros., 1600 10th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME BED ROOM
(1436) NO. 1810 POST. One-story frame bed room.
Owner.....T. Obata, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1437) NW RHODE ISLAND AND Twenty-fifth. Alter shed into dwlg.
Owner.....Peter Rasmussen, 1322 Rhode Island, S. F.
Architect ...None.
Day's work. COST, $500

FRAME DWELLING
(1438) NE MEDA AND DELANO. One and one-half-story and basement frame dwelling.
Owner.....C. S. Allred, 150 Onondago, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1439) N MEDA 50 E Delano. One-story and basement frame dwelling.
Owner.....C. S. Allred, 150 Onondago, San Francisco.
Architect ...None.
Contractor..C. S. Allred, 150 Onondago, San Francisco.
COST, $1950

FRAME DWELLING
(1440) N MEDA 150 E Delano. One-story and basement frame dwlg.
Owner.....C. S. Allred, 150 Onondago, San Francisco.
Architect ...None.
Contractor..C. S. Allred, 150 Onondago, San Francisco.
COST, $1950

FRAME DWELLING
(1441) S MAYNARD 350 W Crant. One and one-half-story and basement frame dwelling.
Owner.....John Christenson, 119 Precita Ave., San Francisco.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
(1442) NO. 625 MARKET. Alter interior of Rooms Nos. 204 and 206.
Owner.....Merchants National Bank, Premises.
Architect ...None
Contractor..J. W. Marsden, 1452 Height San Francisco.
COST, $400

ALTERATIONS
(1443) NW SACRAMENTO & LARKIN Alter dome and skylight.
Owner.....R. L. Anderson, Coronado Apmnts., San Francisco.
Architect ...None.
Contractor..J. M. Johnson, 1832 Franklin, San Francisco.
COST, $400

ALTERATIONS
(1444) NO. 2213 BUCHANAN. General alterations and repair dwelling.
Owner.....Mrs. Bertha L. Welch, 255 California, San Francisco.
Architect ...N. Blaisdell, 255 California, San Francisco.
Contractor..J. Harold Johnson, 507 15th Ave., San Francisco.
COST, $1000

FRAME DWELLING
(1445) S THORNTON 75 W Ceres. One-story and basement frame dwlg.
Owner.....O. Mignault, 30 Ceres, S. F.
Architect ...None.
Day's work. COST, $800

ALTERATIONS
(1446) NO. 2092 THIRD. New floor, painting, etc.
Owner.....Bevine Invst. Co.
Architect ...None.
Contractor..A. H. Broad.
COST, $400

ADDITION
(1447) S HARRIS PLACE. Add to flat.
Owner.....G. Minoli, Premises
Architect ...None.
Contractor..Dolucchi & Volpatti, 301 Nevada, San Francisco.
COST, $500

FRAME APARTMENTS
(1448) S GEARY 80 W Octavia. Three story and basement frame (42) apartments.
Owner.....Progressive Investment Co. 1465 O'Farrell, S. F.
Architect ...C. O. Clausen, Hearst Bldg San Francisco.
Contractor..J. Steur, 1465 O'Farrell, San Francisco.
COST, $56,000
NOTE:—Job just started.

FRAME RESIDENCE
(1449) E TWENTY-EIGHTH AVE 130 N California. Two-story and basement frame residence.
Owner.....Allen & Co., 125 Sutter, San Francisco.
Architect ...Archtectural Dept. of Allen & Co., 125 Sutter, S. F.
Contractor..Allen & Co., 125 Sutter, San Francisco.
COST, $4750

FRAME RESIDENCE
(1450) E TWENTY-EIGHTH AVE 105 N California. Two-story and basement frame residence.
Owner.....Allen & Co., 125 Sutter, San Francisco.
Architect ...Archtectural Dept. of Allen & Co., 125 Sutter, S. F.
Contractor..Allen & Co., 125 Sutter, San Francisco.
COST, $4500

FRAME RESIDENCE
(1451) E TWENTY-EIGHTH AVE 155 N California. Two-story and basement frame residence.
Owner.....Allen & Co., 125 Sutter, San Francisco.
Architect ...Archtectural Dept. of Allen & Co., 125 Sutter, S. F.
Contractor..Allen & Co., 125 Sutter, San Francisco.
COST, $5000

FRAME FLATS
(1452) E FIFTH AVE 125 S Clement N 25xE 100. All work for two-story and basement frame flats.
Owner.....Wm. and Anna Sattler, 348 Clement, San Francisco.
Architect ...None.
Contractor..G. M. Hantzsche and Fred O. McKay, 528 31st Ave., San Francisco.
Filed May 12, '16. Dated Apr. 17, '16.
2nd story joists in.....$1069.87
Enclosed and roof on..... 1069.87
Brown coated 1069.87
Accepted 1069.87
Usual 35 days..... 1425.50
TOTAL COST, $5706.00
Bond, $2853. Surety, H. J. Kessel. Limit, Aug. 1. Forfeit, none. Plans and specifications filed.
NOTE:—1st report May 3rd No. 1294.

BRICK APARTMENTS
(1453) N JACKSON 72-1 W Franklin W 60xN 127-8¼. Steel work for four story and basement brick apartment building.
Owner.....Meyer Wood, Care S. N. Wood & Co., 4th & Market, San Francisco.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..Schrader Iron Works, 1247 Harrison, San Francisco.
Filed May 12, '16. Dated May 11, '16.
Completed and accepted.....$1116
Usual 35 days..... 372
TOTAL COST, $1488
Bond, none. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1454) CARPENTER AND MILL WORK on above.
Contractor..W. D. Henderson, Monadnock Bldg., San Francisco.
Filed May 12, '16. Dated May 11, '16.
Roof boards on.....$1500
Ready for lathing..... 2000
Standing finish on..... 5500
Completed and accepted..... 1125
Usual 35 days..... 3375
TOTAL COST, $13,500
Bond, $6750. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days after ceiling joists are set. Forfeit, none. Plans and specifications filed.

(1455) BRICK WORK, PATENT FLUES, fire places and setting of steel lintels on above.
Contractor..A. P. Brady, 822 Clayton, San Francisco.
Filed May 12, 16. Dated May 11, '16.
Ready for 2nd floor joists....$1250.00
Ready for 3rd floor joists..... 1250.00
Ready for fourth floor joists.. 1000.00
Fire walls topped..... 1250.00
Completed and accepted..... 856.25
Usual 35 days..... 1868.75
TOTAL COST, $7475.00
Bond, $3737.50. Sucty, U. S. Fidelity & Guaranty Co. Limit, as required. Forfeit, none. Plans and specifications filed.

(1456) EXCAVATION AND CONCRETE work on above.
Contractor..Camp & Carillon, 110 Jessie San Francisco.
Filed May 12, '16. Dated May 11, '16.
On 1st and 15th of each month 75%

Usual 35 days 25%
TOTAL COST, $3848
Bond, $1924. Surety, United States Fidelity & Guaranty Co. Limit, 40 days from May 15. Forfeit, none. Plans and specifications filed.

(1457) LATHING, PLASTERING, ETC., on above.
Contractor..John Fay, 180 Jessie, S. F.
Filed May 12, '16. Dated May 11, '16.
Brown coated $1000
Hard finish on..... 765
Completed and accepted..... 200
Usual 35 days..... 655
TOTAL COST, $2620
Bond, $1310. Surety, United State Fidelity & Guaranty Co. Limit, 36 days after ready to receive lathing. Forfeit, none. Plans and specifications filed.

(1458) PLUMBING, GAS FITTING AND Sewer on above.
Contractor..Alexander Coleman, 706 Ellis, San Francisco.
Filed May 12, 16. Dated May 11, '16.
Roughed in $1700.00
Completed and accepted..... 1514.50
Usual 35 days..... 1071.50
TOTAL COST, $4286.00
Bond, $2143. Surety, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

BRICK APARTMENTS
(1459) N JACKSON 132-1 W Franklin W 60xN 127-8¼. Steel work for 4-story and basement brick apartments.
Owner.....Annie Feyser, 1458 Page, San Francisco.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..Schrader Iron Works, 124, Harrison, San Francisco.
Filed May 12, '16. Dated May 11, '16.
Completed and accepted.....$1116
sual 35 days..... 372
TOTAL COST, $1488
Bond, none. Limit, without delay. Forfeit, none. Plans and specifications filed

(1460) CARPENTER AND MILL WORK on above.
Contractor..W. D. Henderson, Monadnock Bldg., San Francisco.
Filed May 12, '16. Dated May 11, '16.
Roof boards on.....$1500
Ready for lathing..... 2000
Standing finish on..... 5500
Completed and accepted..... 1125
Usual 35 days..... 3375
TOTAL COST, $13,500
Bond, $6750. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days after ceiling joists are set. Forfeit, none. Plans and specifications filed.

(1461) BRICK WORK, PATENT FLUES, fire places and setting steel lintels on above.
Contractor...A. P. Brady, 822 Clayton, San Francisco.
Filed May 12, '16. Dated May 11, '16.
Ready for 2nd floor joists....$1200.00
Ready for 3rd floor joists.... 1200.00
Ready for 4th floor joists.... 950.00
Fire walls topped..... 1250.00
Completed and accepted..... 816.50
Usual 25 days..... 805.50
TOTAL COST, $7222.00
Bond, $3611. Surety, United States Fidelity & Guaranty Co. Limit, as required. Forfeit, none. Plans and specifications filed

(1462) EXCAVATION AND CONCRETE on above.
Contractor..Camp & Carillon, 110 Jessie San Francisco.
Filed May 12, '16. Dated May 11, '16.
On 1st and 15th of each month 75%
Usual 35 days..... 25%
TOTAL COST, $3608
Bond, $1804. Surety, United States Fidelity & Guaranty Co. Limit, 40 days after May 15. Forfeit, none. Plans and specifications filed.

(1463) LATHING AND PLASTERING, etc., on above.
Filed May 12, '16. Dated May 11, '16.
Contractor..John Fay, 180 Jessie, S. F.
Brown coated $1000
Hard finish on..... 765
Completed and accepted..... 200
Usual 35 days..... 655
TOTAL COST, $2620
Bond, $1310. Surety, United States Fidelity & Guaranty Co. Limit, 36 days after ready for lathing. Forfeit, none. Plans and specifications filed.

(1464) PLUMBING, GASFITTING & sewer work on above.
Contractor..Alexander Coleman, 706 Ellis, San Francisco.
Filed May 12, '16. Dated May 11, '16.
Roughed in $1700.00
Completed and accepted..... 1514.50
Usual 35 days..... 1071.50
TOTAL COST, $4286.00
Bond, $2142. Surety, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

PAVEMENT, ETC.
(1465) BLOCK BDED BY THIRD, Fourth, King and Berry. All work for a basalt block pavement on concrete base, with hot asphalt and gravel filler (area to be paved 36,000 square feet).
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..G. W. McGinn & Co., Phelan Bldg., San Francisco.
Filed May 12, '16. Dated May 11, '16.
36 days after completed and accepted .....
TOTAL COST, Basalt Block pavement, 0.3345 per square foot.
Bond, $5850. Surety, U. S. Fidelity & Guaranty Co. Limit, 90 days. Forfeit, none. Plans only filed.

BUILDERS' BOND.

May 11, 1916—NO. 1231 MARKET. Owner, James Otis, Trustee; contractor, Central Elec. Co.; surety, Guardian Casualty & Guaranty Co. Bond, $1000. Owner, James Otis, Trustee; contractor, Jesse E Steere; surety, Guardian Casualty & Guaranty Co. Bond, $6000

LEASES.

May 11, 1916—SW FRANCISCO AND Montgomery W 297 S 127-6 SE 27 m or l E 273 N 137-6. National Paper Products Co to Zellerbach Paper Co, 10 years. $200 per month with option to purchase.
May 11, 1916—NOS. 2 AND 4 TURK. Saint Francis Realty Co to E K Stanley and J Dempsey. 5 years. $18,600.
May 11, 1916—W SIXTH AVE 100 S Clement S 100xW 120. M L Markowitz, D Bershon and Arthur Walter to Photoplay Co of America. 4 yea 10 months. $26,100 with option renew.

BRICK CONTRACT AWARDED.

Arthur Arlett has awarded to Whi & Gloor, 448 Monadnock Bldg., the co tract for brick work for the job Eighth and Mission streets.

COMPLETION NOTICES.

San Francisco

RECORDED ACCEPTE

May 6 ,1916—W EIGHTEENTH AVE 125 N Balboa N 25xW 120. Emil and Margaret F Schkade to whom it may concern.....May 6, 19
May 6, 1916—W TWENTY-FOURTH Ave 125 N Anza N 25xW 120. W H Walthall to Spence & Walthall... Rose Borics to Niels Schultz an .....May 3, 19
May 6, 1916—NO. 419 TWENTY-FIRS
May 6, 1916—NE BUSH & FRANKLIN Hermann Est to Fink & Schindler Co.....April 26, 19
May 6, 1916—E MISSION 25 S Richland Ave S 75xE parallel with Richland Ave 100, being Lots 2, 3 and 4 Blk "G." French and Gilman Tract. San Francisco Church Extension Society of Methodist Episcopal Church to J T Johnston, J E Branagh and T A Cuthbertson. May 3, '
May 6, 1916—E TWELFTH AVE 25 N Cahrillo N 25xE 95. Pearl M Levy to Robert McLelland. Apr 5, 19
May 6, 1916—SE GEARY AND LEAVenworth S 44xE 83-6. Gerard Invst Co to Frank J Klimm....May 5, 19
May 6, 1916—S EIGHTEENTH 30 E Lexington Ave 25x100. F K and M G or Mae G Moore to Antone Petersen.....May 1, 19
May 6, 1916—W TWENTY-FOURTH Ave 75 N California N 25xW 95. John Gray to Thomas Hamill..... .....May 5, 19
May 6, 1916—W FIFTEENTH AVE 175 S Anza S 25xW 127-6. Joseph Nolan to William P Nolan.....May 4, 19
May 6, 1916—W EIGHTEENTH AVE 150 N Balboa N 25xW 120. Emil Aug and Margaret F Schkade to whom it may concern....May 6, 19
May 8, 1916—N JACKSON 162-6 W Lyon W 25xN 127-8¼. Wilhelmina D J Duisenberg to J J Harcom.... .....May 6, 19
May 8, 1916—LOT 16 BLK "B"-Regent 273 E San Jose Ave; No. 41 Regent. John Knudson to whom it may concern.....May 6, 19
May 8, 1916—N FILBERT 30 W Gough 30x105. L Chiapellone and E Vigo to Devencenzi Bros & Co..May 8, 19
May 8, 1916—W TWENTY-SIXTH AV 75 S Taraval S 25x120. Ethel B and Edward A Johnson to whom it may concern.....May 3, 19
May 8, 1916—W YORK 250 S 26th S 26xW 100. Philip W Montroull to whom it may concern....May 8, 19
May 8, 1916—SE CUMBERLAND AND Dolores S 89 E 105 — 25 E 25 N 114 W 130. Second Church of Christ Scientist Inc to Victor Stanquist .....Apr 30, 19
May 8, 1916—SW JONES & JACKSON 32-6x82-6. W S and Annie Brockle to H C Matthies.....Apr. 29, 19
May 9, 1916—S TURK 150 E Baker E 25xS 137-6. William O and Anna Tyson to J B Woolfrey..May 5, 19
May 9, 1916—E TWENTY-SIXTH AV

0 N Irving 25x120. Ralph J Button whom it may concern..May 9, 1916
9, 1916—SE GRANT AVE AND ary. Bankers' Invst Co to O irtz .....May 8, 1916
9 , 1916—COMG 25 W York and 5 S 26th W 25 S 80-10¼ E 25-0⅞ 77-9. Lawrence Costello to whom may concern.....May 9, 1916
10, 1916—E ELEVENTH AVE 0 S Balboa S 25xE 120. Michael Rench to whom it may concern.. .....May 10, 1916
10, 1916—W TWENTY-SECOND ve 175 S California S 25xW 120. H T Jackson to whom it may ncern.....May 4, 1916
10, 1916—W YORK 275 S 26th S xW 100. William F Altvater to hilip W Montrouil.....May 9, 1916
10, 1916—W TWENTY-SIXTH ve 175 S Taraval S 25x120. Edw S nd Ethel R Johnson to whom it ay concern.....May 10, 1916
10, 1916—W FOLSOM 198 S 17th 122-6xS 150. Jean Allec to M B cGowan and J J Butler (as Mcowan & Butler).....May 6, 1916
10, 1916—S CLAY 48-6 W Leavenorth W 25xS 67-6. Edward E oung to whom it may concern.... .....May 9, 1916
10, 1916—SW FOURTH AVE AND alboa 25x95. H W Roth to whom may concern.....May 10, 1916
10, 1916—W YORK 300 S 26th S 5xW 100. Harold F Everett to hilip W Montrouil.....May 9, 1916
11, 1916—W THIRTIETH AVE 50 S Taraval S 25xW 120. Theoore Ernst to George F Cleese..... .....May 8, 1916
11, 1916—S BUSH 59 E Van Ness ve 25x81. F W Noltemeier to Wm Martin.....May 10, 1916
11, 1916—S GEARY 83-6 E eavenworth E 27xS 83-6. W L ficise to Schroeder Bros..May 1, 1916
11, 1916—W TWENTY-FIFTH ve 300 S Geary S 25xW 100. H Otten to whom it may concern. .....May 10, 1916

LIENS FILED

San Francisco

CORDED	AMOUNT
y 6, 1916—NE SEVERN & 23RD 22 6-10x65. M Bertolino vs T S Williams and C Trifiletti.	$45
y 10, 1916—N CARL 225 W Clayton W 25xN 137-6. J B Ayres vs Mrs E M M Norton and L A Kern.....	$46.50
y 10, 1916—E FORTY-SEVENTH Ave 215 N Cabrillo N 25xE 120. The Greater City Lumber Co vs A McBarnes	$1569.40
May 10, 1916—S SIXTEENTH 350-6 — Dolores E 25xS 110. S W Band vs Edward and Mary Perry.....	$571.50
May 10, 1916—S PACIFIC AVE 75 E Buchanan E 40xS 127-8¼. Herrings' Mill, Inc vs Frank A Wilkie and E Avery McCarthy	$102.90
May 11, 1916—NO. 344 TEDDY AVE A Gold vs Max and Anna M Juergens	$249.35
May 11, 1916—E SHOTWELL 185 S 19th S 30xE 122-6. Joseph Gottwald, $57.50; Henry Zellies, $40.25; Thomas Horigan, $15 vs Louis Gottwald, Mary E Leslie and Ida Lindemann	
May 11, 1916—N PAGE 165 W Central Ave W 40 S 137-6 S 137-6 E 40 S 137-6. P E O'Hair & Co vs Carrie Green and Seibert & Co.....	$446.60

Building Contracts Awarded

Oakland

1111	Morse	Stewart	3500
1112	Jordan	Stewart	4950
1113	Piedmont	Stewart	1110
1114	Tofanelli	Tofanelli	1000
1115	Wigholm	Wigholm	500
1116	Fallmer	Fallmer	2250
1119	City of Oakland	Olson	3880
1120	San Leandro	McLeran	77880
1121	Ferguson	Wells	1600
1122	McLaughlin	Bartlett	10000
1123	Gray	Doss	400
1124	Boxald	United Bldrs	2000
1129	Silva	Terra	1800
1130	Cal Co-Op Meat	Owner	1800
1131	Hawley	Muller	1600
1132	Burtes	Knight	2000
1136	Rathburn	Rathburn	2060
1137	Davis	Wiehen	2300
1138	Moore & Scott	Owner	8000
1139	Moore & Scott	Owner	4500
1140	Abrahamson	Stockholm	14670
1148	Proctor	Cederborg	400
1149	Van Ostrand	Reid	400
1150	Boreland	Connor	500
1151	Stoll	McBeth	3405
1152	Bovenizer	Northrup	500
1153	Wiser	Wiser	3000
1154	Albers	Hyde	40000
1155	Koenig	Flittner	1260
1162	Packard	Packard	3500
1163	Higgins	Higgins	1600
1164	Garrett	Garrett	500
1165	Breslaw	Pratt	500
1166	Morris	Morris	1500
1167	De Kay	Brazier	950
1168	Thomburgh	Brasch	2500
1169	Mountain	Martin	2250
1170	Hall	MacTavish	500
1172	O'Connor	O'Connor	5000
1173	Same	Same	5000
1174	Same	Same	5000
1175	Ward	Crnickshank	3240
1176	Abarhamson	Cruz	1692
1178	Mohr	Mohr	3000
1179	Spanggaard	Owner	1450
1180	Thomson	Barton	1500
1181	Koenig	Flittner	1260
1182	Kohler	Fink	950
1183	Kolen	Kolen	1500
1184	Allen	Strang	4500
1185	Packard	Packard	4000
1200	Hearst	Rotary	4379

FRAME RESIDENCE
(1111) S DALE 50 E Fairview Ave., Piedmont. Two-story frame residence.
Owner.....H. A. Morse.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $3500

DWELLING
(1112) SE FAIRVIEW AND DALE Aves., Piedmont. Two-story 8-room dwelling.
Owner.....F. R. Jordan, 5917 Ayala, Oakland.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $1950

TOOL HOUSE
(1113) N MAGNOLIA — W HIGHland Ave., Piedmont. One-story concrete tool house.
Owner.....City of Piedmont.
Architect ...None.
Contractor..B. A. Stewart, 8 Fairview Ave., Piedmont.
COST, $1110

DWELLING
(1114) SW BROMLEY AND SIXTYsecond Ave., Oakland. One-story 4-room dwelling.
Owner.....Mrs. A. R. Tofanelli, 1725 62nd Ave., Oakland.
Architect ...None.
Contractor..A. R. Tofanelli, 1725 62nd Ave., Oakland.
COST, $1000

GARAGE
(1115) NO. 632 SIXTIETH, Oakland. Two-story garage.
Owner.....C. A. Wigholm, Premises.
Architect ...None.
Day's work. COST, $500

DWELLING
(1116) S ELWOOD 119 W Valle Vista, Oakland. One-story 5-room dwlg.
Owner.....Chas. F. Fallmer, 170 Pearl Oakland.
Architect ...None.
Day's work. COST, $2250

MANUAL TRAINING BUILDING
(1119) EIGHTY-FIFTH AVE near E-14th, Oakland. Manual training building for Highland School.
Owner.....City of Oakland.
Architect ...J. J. Donovan, Dalziel Bldg Oakland.
Contractor...Alfred Olson, 1116 Myrtle, Oakland.
COST, $3880

SCHOOL
(1120) SAN LEANDRO. Two one-story reinforced concrete and brick schools.
Owner.....San Leandro School District.
Architect ...John J. Donovan, Dalziel Bldg., Oakland.
Contractor..McLeran & Peterson, Sharon Bldg., San Francisco.
COST, $77,880

DWELLING
(1121) NE NINETY-SIXTH AVE AND Cherry, Oakland. One-story six-room dwelling.
Owner.....Geo. Ferguson, 2129 96th Ave., Oakland.
Architect ...None.
Contractor E. E. Wells, Station "G," Oakland.
COST, $1600

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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Ask for our new stock lists—free on request.

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If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francisco**

APARTMENTS
(1122) W GROVE 60 N 17th, Oakland. Three-story 18-room apartments.
Owner.....D. H. McLaughlin, 15th & Broadway, Oakland.
Architect ...E. W. Cannon, Central Bank Bldg., Oakland.
Contractor..John M. Bartlett, 1706 Parker, Berkeley.
COST, $10,000

GARAGE
(1123) NO. 604 JEAN, Oakland. Garage.
Owner.....H. P. Gray, Premises.
Architect ...None.
Contractor..C. A. Doss, 2028 E-15th, Oakland. COST, $400

ADDITION
(1124) NO. 4072 PIEDMONT AVE., Oakland. Addition.
Owner.....L. B. Bean, Premises.
Architect ...None.
Contractor..B. G. Campbell, 194 41st, Oakland.
COST, $400

FRAME DWELLING
(1127) SE COR. EPISCOPAL CHURCH Ppty in center of County Road leading from Centerville to Newark and Jarvis Landing, 190 from its intersection with SW line county road leading from Centerville to Alvarado NW 259 SW 65, Centerville. All work except finish hardware, plumbing fixtures, electric fixtures and wall paper (furnished by owner) for two-story frame dwelling.
Owner.....Marion L. Mowry, Centerville, Cal.
Architect ...None.
Contractor..Robert Irvine, Irvington.
Filed May 8, '16. Dated May 6, '16.
Foundations in ..... ¼
Frame up ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2860
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

CLASS "A" STORE & LOFTS
(1128) NW FIFTEENTH AND CLAY W 100xN 103-9, Oakland. Excavation for 8-story and basement Class "A" store and loft building.
Owner.....The Chas. Jurgens Co., Inc., 373 13th, Oakland.
Architect ...Walter J. Mathews, 927 Broadway, Oakland.
Contractor..B. W. Ariss, 409 45th, Okd.
Filed May 8, '16. Dated Apr. 28, '16.
One-third completed ..... ¼
Two-thirds completed..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $3640
Bond, $2000. Surety, Massachusetts Bonding & Insurance Co. Limit, June 10, 1916. Forfeit, none. Plans and specifications filed.

DWELLING
(1129) E FORTY-NINTH AVE 400 S E-14th, Oakland. One-story 5-room dwelling.
Owner.....Mrs. R. Silva, 2177 Santa Rita Ave., Oakland.
Architect ...None.
Contractor..M J. Terra, 2177 Santa Rita Ave., Oakland.
COST, $1800

ALTERATIONS
(1130) SE TWELFTH & HARRISON, Oakland. Alter garage to butcher shop.
Owner.....California Co-Operative Meat Co., Premises.
Architect ...None.
Day's work. COST, $1800

ADDITION
(1131) W BROADWAY 75 N 19th, Oakland. One-story brick addition to store.
Owner.....Hawley Investment Co., Syndicate Bldg., Oakland.
Architect ...None.
Contractor..F. A. Muller, Syndicate Bldg., Oakland.
COST, $1600

DWELLING
(1132) S FORTY-THIRD 90 W West, Oakland. One-story 4-room dwelling.
Owner.....Maud E. Burtes, Oakland.
Architect ...None.
Contractor..Harry C. Knight, 1514 Havenscourt Blvd., Okd.
COST, $2000

DWELLING
(1136) E 108TH AVE 241 N Voltaire, Oakland. One-story 5-room dwlg.
Owner.....C. M. Rathburn, Hayward.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1137) SE SIXTY-FOURTH AVE AND Braun, Oakland. One-story 6-room dwelling.
Owner.....Frank C. Davis, 2119 69th Ave., Oakland.
Architect ...None.
Contractor..Alex C. Wieben, 1461 Alice Oakland.
COST, $2300

FRAME OFFICES
(1138) FOOT ADELINE, Oakland. Two story 13-room frame office building.
Owner.....Moore & Scott Iron Works, 678 2nd, San Francisco.
Architect ...Leland S. Rosener, Merchants' Exchange Bldg., San Francisco.
Day's work. COST, $8000
NOTE:—Building nearly completed.

COMPRESSOR HOUSE
(1139) FOOT ADELINE, Oakland. One-story 2-room air compressor house.
Owner.....Moore & Scott Iron Works, 678 2nd, San Francisco.
Architect ...Leland S. Rosener, Merchants' Exchange Bldg., San Francisco.
Day's work. COST, $4500
NOTE:—Building nearly completed.

BRICK GARAGE
(1140) SE TWENTY-NINTH & BROADWAY SE 128.53 SW 100 NW 50.87 NE 2.65 NW 100 NE 75, Oakland. All work except painting, tinting, whitewashing, plumbing, tin work, galvanized iron work, sewers, heating, window shades and electric wiring for one-story brick garage.
Owner.....Henry Abrahamson, 3837 Clay, San Francisco.
Architect ...F. D. Voorhees, Central Bk. Bldg., Oakland.
Contractor..Stockholm & Allyn, Monadnock Bldg., San Francisco.
Filed May 9, '16. Dated May 5, '16.
1st day of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $14,670
Bond, $7335. Surety, New Amsterdam Casualty Co. Limit, 60 days from May 8. Forfeit, none. Plans and specifications filed.

ADDITION
(1148) NO. 2026 FORTY-FIRST AVE., Oakland. Addition.
Owner.....Mrs. Allis Proctor.
Architect ...None.
Contractor..Cederborg & Anderson, 1033 Poplar, Oakland.
COST, $400

DWELLING
(1149) W EIGHTY-FIFTH AVE 52 S Plymouth, Oakland. One-story 3-room dwelling.
Owner.....Mrs. Van Ostrand, 556 20th, Oakland.
Architect ...None.
Contractor..E. Reid, 305 105th Ave., Oakland. COST, $400

ALTERATIONS
(1150) NO. 2825 SUMMIT, Oakland. Alterations.
Owner.....Mrs. Boreland, Premises.
Architect ...None.
Contractor..Connor & Connor, Berkeley Way and Shattuck Ave., Berkeley.
COST, $500

FLATS
(1151) N THIRTY-FIFTH 300 W Telegraph Ave., Oakland. Two-story 9-room flats.
Owner.....G. E. Stoll, 535 35th, Okd.
Architect ...None.
Contractor..R. H. McBeth, 1050 Stannage Ave., Albany.
COST, $3400

ALTERATIONS
(1152) NO. 1704 TENTH AVE., Oakland. Alterations.
Owner.....W. F. Bovenizer, 2048 E-21st, Oakland.
Architect ...None.
Contractor..Geo. R. Northrup, 1824 90th Ave., Oakland.
COST, $500

DWELLING
(1153) N PLEASANT VALLEY AVE 100 E Moraga, Oakland. One-story 7-room dwelling.
Owner.....Eunice Wiser, 5601 Edgerly Oakland.
Architect ...None.
Day's work. COST, $3000

WHARF, ETC.
(1154) KEY ROUTE BASIN, Oakland. Wharf and concrete foundations.
Owner.....Albers Bros., Milling Co., 332 Pine, San Francisco.
Engineer ...R. M. Heningsen, Security Bank Bldg., Oakland.
Contractor..Hyde Harjes & Co., 110 Market, San Francisco.
COST, $40,000
NOTE:—Cement work on above to be done by J. G. Vukovich.

FRAME STORES
(1155) NW TWENTY-THIRD AVE 100 SW E-15th SW 50 NW 150 NE 50 SE 39-11 SW 1 SE 12-6 NW 1 SE 97-7, Okd. All work for one-story frame store.
Owner.....E. J. and M. A. Koenig, 2262 E-14th, Oakland.

Architect ...None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
Filed May 10, '16. Dated May 10, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1260
Bond, none. Limit, 30 days. Forfeit, $2. Plans and specifications filed.

DWELLING
(1162) E CAPELL 226 N Cleveland Ave Oakland. Two-story 8-room dwelling
Owner.....Walter H. Packard, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $3500

DWELLING
(1163) W EIGHTY-THIRD AVE 200 N Plymouth, Oakland. One-story four-room dwelling.
Owner.....W. H. Higgins, 2477 94th Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

REPAIRS
(1164) NO. 2232 E-TWENTY-SECOND, Oakland. Alterations and repairs.
Owner.....John H. Garrett, 437 45th, Oakland.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(1165) N CARRINGTON 15 E 41st Ave., Oakland. Alterations.
Owner.....Mrs. Sara Jane Breslaw, 2100 E-14th, Oakland.
Architect ...None.
Contractor..Pratt & Tuttle, 3447 Elm, Oakland.
COST, $500

DWELLING
(1166) W POMONA 135 N Marin, Albany. One-story 5-room dwelling.
Owner.....A. R. Morris, 911 Kains Ave., Albany.
Architect ...None.
Day's work. COST, $1500

DWELLING
(1167) E TALBOT AVE 480 N Marin, Albany. One-story 4-room dwelling.
Owner.....Geo. H. De Kay, Center St., Berkeley.
Architect ...None.
Contractor..Jas. W. Brazier, 1101 Talbot Ave., Albany.
COST, $950

DWELLING
(1168) NE INYO AND MARIN, Albany. One-story 5-room dwelling.
Owner.....I. D. Thomburgh.
Architect ...None.
Contractor..M. P. Brasch, 5836 Ocean View Drive Ave., Okd.
COST, $2500

DWELLING
(1169) E HAVENSCOURT BLVD 50 N Fairview Way, Oakland. One-story 6-room dwelling.
Owner.....Frank J. Mountain, 1035 Fallon, Oakland.
Architect ...None.
Contractor..J. H. Martin, 3479 39th Ave., Oakland.
COST, $2250

ADDITION
(1170) NO. 1108 SECOND AVE., Oakland. Addition.
Owner.....Mrs. C. T. Hall, Premises.
Architect ...None.
Contractor..K. Mac Tavish, 1025 E-21st Oakland. COST, $500

DWELLING
(1172) E GOLDEN GATE AVE 500 S Acacia Ave., Oakland. Two-story 8-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

DWELLING
(1173) E GOLDEN GATE AVE 300 S Acacia Ave., Oakland. Two-story 8-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

DWELLING
(1174) E GOLDEN GATE AVE 200 S Acacia Ave., Oakland. Two-story 8-room dwelling.
Owner.....J. C. O'Connor, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $5000

FRAME DWELLING
(1175) NO. 128 CAPERTON AVE., being Lot 20 Resbdvn Highland Court, Piedmont. All work except heating for one-story 6-room frame dwelling.
Owner.....Stanley Palmer Ward, 1811 Delaware, Oakland.
Architect ...Chester H. Miller, 1st Savings Bank Bldg., Oakland.
Contractor..J. Cruickshank, 5667 Dover Oakland and T. A. Tipps, Oakland.
Filed May 11, '16. Dated May 5, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $3240
Bond, none. Limit, 75 days after May 8. Forfeit, none. Plans and specifications filed.

BRICK GARAGE
(1176) SE TWENTY-NINTH & BROADWAY SE 128.53 SW 100 NW 50.87 NE 2.65 NW 100 NE 75, Oakland. Plumbing, tinning, galvanized iron work, iron and iron stone sewers, gas fitting and flashing for one-story brick garage.
Owner.....Henry Abrahamson, Okd.
Architect ...F. D. Voorhees, Central Bank Bldg., Oakland.
Contractor..J. B. Cruz, 2632 Myrtle, Oakland.
Filed May 11, 16. Dated May 8, '16.
1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1692
Bond, $850. Surety, Aetna Accident & Liability Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1178) SAN CARLOS AVE. Lot 157 Nova Piedmont, Piedmont. One-story frame residence.
Owner.....G. L. Mohr, 2055 University Ave., Berkeley.
Architect ...None.
Day's work. COST, $3000

DWELLING
(1179) W SEVENTY-FIFTH AVE 100 S Bursdale, Oakland. One-story five-room dwelling.
Owner.....T. L. Spanggaard, 1199 75th Ave., Oakland.
Architect ...None.
Day's work. COST, $1450

ALTERATIONS
(1180) NO. 1731 THIRTEENTH AVE., Oakland. After 2-story dwelling into flats.
Owner.....Bella Thomson, S. F.
Architect ...None.
Contractor..C. B. Barton, 1st Trust Bldg., Oakland.
COST, $1500

STORES
(1181) W TWENTY-THIRD AVE 100 S E-15th, Oakland. One-story stores.
Owner.....Mrs. M. A. and E. J. Koenig, 2262 E-14th, Oakland.
Architect ...None.
Contractor..Jos Flittner, 1700 35th Ave. Oakland.
COST, $1260

ALTERATIONS
(1182) NO. 535 FOURTEENTH, Oakland. Alterations.
Owner.....Kohler & Chase, 473 12th, Oakland.
Architect ...None.
Contractor..Fink & Schindler Co., 228 13th, San Francisco.
COST, $950

DWELLING
(1183) W MAYBELL AVE 69 S Porter, Oakland. One-story 5-room dwelling.
Owner.....Ole Kolen, 3127 Bruce, Okd.
Architect ...None.
Day's work. COST, $1500

ALTERATIONS
(1184) NO. 2421 ORIN DRIVE, Oakland After two-story dwelling into apartments.
Owner.....L. E. Allen, Premises.
Architect ...None.
Contractor..F. N. Strang, 805 Pacific Ave., Alameda.
COST, $1500

DWELLING
(1185) E CAPELL 150 N Cleveland Ave., Oakland. Two-story nine-room dwelling.
Owner.....Walter H. Packard, Syndicate Bldg., Oakland.
Architect ...M. I. Diggs, Syndicate Bldg Oakland.
Day's work. COST, $1000

OIL BURNERS, ETC.
(1200) HEARST RANCH nr Pleasanton known as "The Hacienda." All work for 19 rotary oil burners; 1 7000-gallon and 3 500-gallon and 1 700-gallon oil storage tanks.
Owner.....Mrs. Phoebe A. Hearst, Premises.
Architect ...Geo. F. Kineaid.
Contractor..Rotary Oil Burner Co., Inc 159 12th, Oakland.
Filed May 12, '16. Dated Apr. 25, '16.
All materials, except tanks delivered ..... ¼

One-half completed ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $4379

Bond, none. Limit, 53 days after May 1. Forfeit, $10. Plans and specifications filed.

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1125	Jenks	Jenks	3500
1126	Morris	Thaxter	1500
1127	Mowry	Irvine	2860
1128	Jurgens	Ariss	3640
1133	Wetteran	Krocsa	2500
1134	Nettelman	Owner	2500
1135	Melborn	Albertson	600.
1156	Hosking	Patrick	2500
1157	Hanna	Patrick	500
1158	Young	Young	1500
1159	Same	Same	1500
1160	Pittock	Pittock	1800
1161	Johnson	Johnson	3000
1171	Miller	Miller	400
1186	Pfrang	Pfrang	2250
1187	Same	Same	2250
1188	Hillen	Hillen	2000
1189	Same	Same	2000
1190	Same	Same	2000
1191	Same	Same	2000
1192	Same	Same	2000
1193	Same	Same	2000
1194	Same	Same	2000
1195	Same	Same	2000
1196	Same	Same	2000
1197	Same	Same	2000
1198	Same	Same	2000
1199	Same	Same	2000

DWELLING
(1125) ASHBY AVE — 350 E San Pablo Ave., Berkeley. One-story 5-room dwelling.
Owner.....Mrs. Boxald, 3618 24th, San Francisco.
Architect ...None.
Contractor..United Home Bldrs., 1545 Broadway, Oakland.
COST, $2000

DWELLING
(1126) N WOOLSEY 37½ W Benvenue, Berkeley. Two-story 7-room dwlg.
Owner.....E. L. Jenks, 2977 Piedmont Ave., Berkeley.
Architect ...None.
Day's work. COST, $3500

DWELLING
(1127) S DELAWARE 32 W Acton, Berkeley. One-story 5-room dwlg.
Owner.....Percy F. Morris, 5443 Miles Ave., Oakland.
Architect ...None.
Contractor..F. W. Thaxter, 3024 Regent, Berkeley.
COST, $1500

DWELLING
(1133) W MENDOCINO AVE 107 S Indian Rock Path, Berkeley. Two-story 7-room dwelling.
Owner.....Miss Anne Wetteran, 2644 Fulton, Berkeley.
Architect ...None.
Contractor..Edw. I. Krocsa, 1908 Yolo Ave., Berkeley.
COST, $2500

DWELLING
(1134) E FRESNO AVE 300 S Monterey Ave., Berkeley. One-story 5-room dwelling.
Owner..... Anna E. Nettelmann, 1022 Shattuck Ave., Berkeley.
Architect .. None.
ContractorW. H. Nettlemann, 1022 Shattuck Ave., Berkeley.
COST, $2500

ALTERATIONS
(1135) NO. 1350 FAIRVIEW, Berkeley Alterations and additions.
Owner.....Sidney Melborn, Premises.
Architect ...None.
Contractor..B. K. Albertson, 1523 Fairview, Berkeley.
COST, $600

DWELLING
(1156) N HOPKINS 250 W Napa, Berkelely. One-story 5-room dwelling.
Owner.....R. G. Hosking.
Architect ...None.
Contractor..O. M. & H. G. Patrick, 2001 Hopkins, Berkeley.
COST, $2500

ADDITIONS
(1157) NO. 2429 CHANNING WAY, Berkeley. Addition and alteration.
Owner.....T. R. Hanna.
Architect ...None.
Contractor..O. M. & H. G. Patrick, 2001 Hopkins, Berkeley.
COST, $500

DWELLING
(1158) W SAN PABLO AVE 102½ N Jones, Berkeley. One-story 5-room dwelling.
Owner.....W. S. Young, 533 63rd, Okd
Architect ...None.
Day's work. COST, $1500

DWELLING
(1159) W SAN PABLO AVE 67 6-12 N Jones, Berkeley. One-story 5-room dwelling.
Owner.....W. S. Young, 533 63rd, Okd.
Architect ...None.
Day's work. COST, $1500

DWELLING
(1160) HIGH COURT AND OAK, Berkeley. Two-story 5-room dwelling.
Owner.....Dr. Geo. S. Pittock, 2739 Fulton, Berkeley.
Architect ...None.
Day's work. COST, $1800

DWELLING
(1161) N PLEASANT VALLEY AVE 120 E Moraga Road, Berkeley. One-story 5-room dwelling.
Owner.....Geo. H. Johnson, 5457 Vicente, Oakland.
Architect ...None.
Day's work. COST, $3000

ADDITION
(1171) NO. 1701 ARCH, Berkeley. Addition.
Owner.....W. M. Miller, Premises.
Architect ...None.
Day's work. COST, $400

DWELLING
(1186) N DERBY 31 E California, Berkeley. One-story 5-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2250

DWELLING
(1187) NO. 1601 DERBY, Berkeley. One-story 5-room dwelling.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect ...None.
Day's work. COST, $2250

DWELLING
(1188) N FRANCISCO 40 E Acton, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1189) N FRANCISCO 120 E Acton, Berkeley. One-story 5-room dwelg.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1190) N DERBY 240 E Mabel, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1191) N DERBY 200 E Mabel, Berkeley. One-story 5-room dwelling.
Owner.....R. S. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1192) N CHANNING 66 E Bonar, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1193) N CHANNING 32 E Bonar, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1194) E McGEE 65 S Hopkins, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1195) E McGEE 20 S Hopkins, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1196) W SHORT 135 S Francisco, Berkeley. One-story 4-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $1800

DWELLING
(1197) W SHORT 100 S Francisco, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1198) W SHORT 100 S Virginia, Berkeley. One-story 5-room dwelling.
Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1199) E ACTON 135 N Francisco, Berkeley. One-story 5-room dwelling.

Owner.....R. C. Hillen, 430 Haight Ave., Alameda.
Architect ...None. COST, $2000
Day's work.

Building Contracts Awarded

Alameda

No.	Owner	Contractor	Amt.
1117	City of Alameda	Klyce	$2137
1118	Same	Schrader	11000
1141	Verges	Morilhat	400
1142	Hill	Andresen	500
1143	Banning	Stewart	5000
1144	Smith	Cummings	2500
1145	Smith	Cummings	2500
1146	Smith	Cummings	2500
1147	Smith	Cummings	2500
1177	Olsen	Vollmar	1400

CLASS "B" SCHOOL
(1117) ALAMEDA AVE., bet. Oak and Walnut, Alameda. All work except structural steel for two-story and basement Class "B" school to be known as the Porter School.
Owner.....City of Alameda.
Architect ...Chas. E. J. Rogers and Carl Werner, Phelan Bldg., S. F.
Contractor..Harvey A. Klyce, Sheldon Bldg., San Francisco.
CAST, $82,137

(1118) STRUCTURAL STEEL ON above.
Contractor..Schrader Iron Works, 1247 Harrison, San Francisco.
COST, $11,000

ALTERATIONS
(1141) NO. 1616 WEBSTER, Alameda. Alterations.
Owner.....John Verges, Premises.
Architect ...None.
Contractor..Pierre Morilhat, 1333 E-18th, Oakland.
COST, $400

DWELLING
(1142) N CENTRAL AVE 725 E High, Alameda. One-story 2-room dwlg.
Owner.....Florence Hill, 1836 Clinton Ave., Alameda.
Architect ...None.
Contractor..H. C. Andresen, 1229 Pearl, Alameda.
COST, $500

DWELLING
(1143) S PALMERO COURT 100 E Grand, Alameda. Two-story 8-room dwelling.
Owner.....Banning & Stewart, 5215 Broadway, Oakland.
Architect ...None.
Day's work. COST, $5000

DWELLING
(1144) NO. 1622 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Ralph H. Smith, Santa Cruz
Architect ...None.
Contractor..E. Cummings, 2304 Clinton Ave., Alameda.
COST, $2500

DWELLING
(1145) NO.1628 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Ralph H. Smith, Santa Cruz
Architect ...None.
Contractor..E. Cummings, 2304 Clinton Ave., Alameda.
COST, $2500

DWELLING
(1146) NO. 1626 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Ralph H. Smith, Santa Cruz
Architect ...None.
Contractor..E. Cummings, 2304 Clinton Ave., Alameda.
COST, $2500

DWELLING
(1147) NO. 1620 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Ralph H. Smith, Santa Cruz
Architect ...None.
Contractor..E. Cummings, 2304 Clinton Ave., Alameda.
COST, $2500

ALTERATIONS
(1177) W LAUREL 120 S Clinton Ave S 40xW 130, Alameda. All work for altering two-story dwelling into flats.
Owner.....O. E. Olsen, 887 Laurel, Alameda.
Architect ...None.
Contractor..A. G. Vollmar, 2217 San Jose, Alameda.
Filed May 11, '16. Dated May 9, '16.
Enclosed and new window frames in place ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $1400
Bond, $700. Sureties, C. J. Hammond Sr. and Johanna Vollmar. Limit, 50 days. Forfeit, $1. Plans and specifications filed.

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED AMOUNT
May 3, 1916—NO. 324 CORONADO, being Lot 6 Hemphill Court, Oakland. Isaac Adams to Oscar E Nelson (Notice given by Nelson).Mar. 15, '16
May 5, 1916—LOT 77 and Ptn Lot 76 Map Crocker Highlands, Okd. Alice F McDonald to Mark Anthony and Chas W Heyer.....May 3. 1916
May 6, 1916—S 45 LOT 3 BLK "I" Northbrae Terrace, Bkly. J R Auguston to F R Peake..May 1, 1916
May 8, 1916—LOT 13 BLK "J" Map Northbrae Terrace Tract, Bkly. E D and Margaret Woodward to Anthony & Heyer.....May 6, 1916
May 8, 1916—NO. 542 TWENTY-5TH Okd. John Conant to whom it may concern.....May 8, 1916
May 9, 1916—SE THIRTY-FIFTH AV 80 SE Penniman Ave SW 50xSE 120, Okd. Rachel Elizabeth McKee to J E Wolfe.....May 5, 1916
May 9, 1916—LOT 11 BLK 2 Map Rockridge Place, Okd. R H Banning and Jas E Stewart to whom it may concern.....May 9, 1916
May 10, 1916—SW GROVE & FIRST W 225xS 250, Okd. Pacific Gas & Electric Co to H W Norman..... .....May 1, 1916
May 10, 1916—SE SHAFTER AVE 190.6 SW College Ave SW 79 SE to center line Temescal Creek; E to College Ave N 38.94 W 60.66 W 55.1, Okd. Blanche Hadley Strong to whom it may concern....May 10, 1916
May 10, 1916—E 10 LOT 29 and W 30 Lot 30 Blk 6, East Piedmont Heights Tract, Okd. Edwin Frank to Cederborg & Anderson..... .....April 15, 1916
May 11, 1916—(1) E PIEDMONT AVE 80 N Yosemite Ave (2) N Yosemite Ave 80 E Piedmont Ave.; (3) N Yosemite Ave 100 W Fairmont Ave, Okd. V Z Rutherford to whom it may concern.....Completed —

LIENS FILED

ALAMEDA COUNTY.

RECORDED AMOUNT
May 6, 1916—N 107TH AVE 200 W Voltaire Ave W 40xN 101.25, Okd. Fred Schmidt vs W M and Blanche Martin and L W Anderson....$105.10
May 10, 1916—SW FRANCISCO AND Sacramento S 100xW 80, Bkly. R R Condyser, $46.25; P Pezzy, $48.33; L Watson, $42.50 vs E M Reagh and Henry Lehfeldt .....

BUILDING CONTRACTS

SANTA CLARA COUNTY.

BUSINESS BUILDING
FIRST AND SAN CARLOS STS., San Jose. All work for two-story business building.
Owner.....William Binder, Rea Bldg., an Jose.
Architect ...William Binder, Rea Bldg., an Jose.
Contractor..R. O. Summers, 17 N-1st St., San Jose.
Filed May 4, '16. Dated Apr. 29, '16.
Between 1st and 4th of each month payments of 75%
Usual 35 days..... 25%
TOTAL COST, $8524
Bond, $4262. Sureties, J. H. Pierce and G. S. Parkinson. Limit, on or before Sept. 15, 1916. Forfeit, none. Plans specifications filed.

DWELLING
HANCHETT PARK, San Jose. All work for eight-room dwelling.
Owner.....Herbert Barry.
Architect...Warren Skillings, Garden City Bank Bldg., San Jose.
Contractor..R. O. Summers, 17 N-17th St., San Jose.
Noe recorded.
Payments not given.....
TOTAL COST, $8000
Bond, limit, forfeit, none. Plans and specifications, none.
NOTE:—On May 9, 1916 foundations were in and frame started.

DWELLING
LOTS 16 & 17 BLK 16, Hanchett Park, San Jose. Two-story dwelling.
Owner.....Frank Marten.
Architect...Warren Skillings, Garden City Bank Bldg., San Jose.
Contractor..D. H. Main.
Filed May 9, '16. Dated May 8, '16.
Frame up $1410
Plastering done 1410
Job accepted 1410
Usual 35 days..... 1410
TOTAL COST, $5640
Bond, $2820. Sureties, C. T. Pitman and L. D. Bohnett. Limit, Sept. 1, 1916. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

ALTERATIONS
LOT 174, San Mateo Park. All work for alterations and additions to building.
Owner.....J. H. Brady, 617 Dorchester Road, San Mateo.
Architect ...Will H. Toepke, 46 Kearny San Francisco.
Contractor..Croop & Keegan, San Mateo
Filed May 10, '16. Dated May 6, '16.
Plastered, etc. $493
When completed 493

Usual 35 days..... 329
TOTAL COST, $1315
Bond, $650. Sureties, John Cleland and Wm. T. Croop. Limit, 45 days. Forfeit, $5 per day. Plans and specifications filed.

BRICK AND STEEL STORE
SAN MATEO. All work for two-story and basement brick and steel department store.
Owner.....Parrott Estate.
Architect...M. M. Bruce, Flood Bldg., San Francisco.
Contractor..W. S. Leadley, San Mateo.
COST, $60,000

PARISH HOUSE
SOUTH SAN FRANCISCO. All work for two-story frame parish house.
Owner.....All Souls Roman Catholic Church of South San Francisco.
Architect...Geo. McCrea, 1st National Bank Bldg., Oakland.
Contractor..Moore & Watson, 110 Jessie, San Francisco.
COST, $22,500
NOTE:—Frame started.

FRAME BUNGALOW
LOT 13 BLK 26 Re-sbdvn of Dingee Park, Redwood City. All work for one and one-half-story frame bungalow.
Owner.....George Hopkins, Redwood City.
Architect...None.
Contractor..Gustave Waller, Redwood City.
Filed May 8, '16. Dated May 6, '16.
Frame up $818.75
When plastered 818.75
When completed 818.75
Usual 35 days..... 818.75
TOTAL COST, $3275.00
Bond, $1637.59. Sureties, W. P. Gray and Daniel R. Stafford. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
LOT 9 BURLINGAME HEIGHTS, Burlingame. All work for one-story frame residence with attic and concrete foundation.
Owner.....Adolph Meyer, S. F.
Architect...None.
Contractor..J. W. Bradrick, Chapin Ave. Burlingame.
Filed May 8, '16. Dated May 6, '16.
Frame up and roof on.....$520.00
Plastering completed 520.00
When completed 520.00
Usual 35 days..... 510.50
TOTAL COST, $2070.50
Bond, $1000. Sureties, Ed. C. Beals and H. W. Regan. Limit 90 days. Forfeit, none. Plans only filed.

FRAME DWELLING
PTN LOTS 2 AND 3 Reserved Villa Lots El Cerita Park, Hillsborough. All work for frame dwelling.
Owner.....J. G. Anderton, Hillsborough.
Architect...Howard & White, 35 Montgomery, San Francisco.
Contractor..Collman & Duncan, Sharon Bldg., San Francisco.
Filed May 6, '16. Dated May 5, '16.
Payments each month of..... 75%
Usual 35 days..... 25%
TOTAL COST, $9896
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
MARSH AND MIDDLEFIELD ROADS, Atherton. All work except lighting fixtures and shades for one-story frame residence.
Owner.....Mrs. George S. Fife (Ellen A. Fyfe), 401 Lake St., S. F.
Architect...Henry Shermund, Mills Bldg., San Francisco.
Contractor..C. A. Brady.
Filed May 9, '16. Dated May 9, '16.
Rough frame up.....$3500
Rough plastered 3500
When completed 3500
Usual 35 days..... 3500
TOTAL COST, $14,000
Bond, none. Limit, 90 days from May 5. Forfeit, $30 per day. Plans and specifications filed.

RESIDENCE
LOTS 6 AND 8 BLK 27, Redwood Highlands, Redwood City. All work for residence.
Owner.....Redwood Highlands Co., 1st National Bank Bldg., S. F.
Architect...E. R. Kauffman.
Contractor..Thomas Elam & Son, 180 Jessie, San Francisco.
Filed May 9, '16. Dated Apr. 29, '16.
Frame up ..... ¼
Rough plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $4807
Bond, $2404. Surety, Guardian Casualty & Guaranty Co. Limit, 60 days. Forfeit, $2 per day. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
May 8, 1916—LOT 12 BLK 13, Interurban Park Tract, San Jose. Chas H Jurgensen to V A Peters.May 1, 16
May 8, 1916—LOT 25 BLK 1 and Lots 10 and 13 Blk 2, Conklin-Col Sbdvn, San Jose. Ethan A Bishop to whom it may concern.....May 8, 1916
May 10, 1916—SAN AUGUSTINE nr Montgomery, San Jose. Pacific Gas & Electric Co to George J Raggio .....May 1, 1916
May 8, 1916—NW HAMILTON AVE 150 SW Seneca, Palo Alto. Mrs. Caroline E Ray to Collman & Collman .....April 29, 1916
May 8, 1916—LOT 14 BLK 5, Bechtell Sbdvn, San Jose. J C McLeod to whom it may concern....May 3, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
May 11, 1916—ADDISON AVE AND High, Palo Alto. Gray-Thorning Lumber Co vs Frederick Cheek... .....$229.20

COMPLETION NOTICES.

SAN MATEO COUNTY.

RECORDED ACCEPTED
May 4, 1916—LOT 12 BLK 11 Stanford Park, North Palo Alto. Rosa Hooper Lyon to whom it may concern.....May 3, 1916
May 5, 1916—MOUNTAIN HOME Ranch, Woodside. Harriet S Zane to A A Klahn & Son....Apr. 28, 1916
May 10, 1916—LOT 1 BLK 6, Western Add'n to Town of San Mateo. Wm S Leadley to whom it may concern .....May 1, 1916
May 8, 1916—ATHERTON AVE near the Alameda, Atherton. James G Sharp to L A Hinson....May 8, 1916

LIENS FILED

SAN MATEO COUNTY.

RECORDED AMOUNT
May 8, 1916—PTN LOT 13, Hillsborough Acres, Hillsborough. Reinhart Lumber & Planing Mill Co vs Charles A James, R R Fulton, Theodore F Moeller and Carson M Ellis $636.14

RELEASE OF LIENS

SAN MATEO COUNTY.

RECORDED AMOUNT
May 9, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood. J H Bailey to Irene V B Putnam and H H Putnam $164
May 9, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood. P E Brand to Irene V B and H H Putnam $218.35
May 9, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood. Gray-Thorning Lumber Co to Irene V Bx and H H Putnam.....$640.55
May 9, 1916—LOT 10 BLK 29, Redwood Highlands, Redwood. R E Johnston to Irene V B and Harry Putnam $31.25

BUILDING CONTRACTS

MARIN COUNTY.

APARTMENTS AND STORES
SAN RAFAEL. All work for apartment and stores.
Owner.....S. K. Herzog & Co., 410 B St., San Rafael and E. S. Rake, 404 5th, San Rafael.
Architect...Milton Lichtenstein, 111 Ellis St., San Francisco.
Contractor..Joe Kappenmann, 491 4th St., San Rafael.
Filed May 8, '16. Dated May 6, '16.
Floor joists on.....$4000
Basement walls up..... 4000
Gravel roof on..... 6000
When plastered 5000
Stores completed 5000
Accepted 5577
Usual 35 days..... 9859
TOTAL COST, $39,436
Bond, $19,800. Sureties, Chas. O. Jensen and John W. Schlosser. Limit, on or about Nov. 1, 1916. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

MARIN COUNTY.

RECORDED ACCEPTED
May 10, 1916—SAN ANSELMO. Carlo P Pizochero to Peter Hamilton... .....May 10, 1916
May 11, 1916—SAN ANSELMO. Annie M Schmidt to whom it may concern.....May 6, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

DWELLING, ETC.
LOTS 29 AND 30 BLK 4, Stratford Pl., Fresno. Dwelling and garage.

Owner.....R. D. Sibley & Co., 1107 J St., Fresno.
Architect ...None.
Day's work. COST, $3000

HEATING AND VENTILATING
LOTS 12 TO 16 BLK 340, Fresno. Heating and ventilating plant for church building.
Owner.....First Church of Christ, Scientist of Fresno.
Architect ...R. B. Hotchkin, 618 Rowell Bldg., Fresno.
Contractor..Henry W. Fincke and Geo. C. Derby, Fresno.
Roughed in and completed..... 75%
Usual 35 days..... Balance
TOTAL COST, $3223
Bond, $3223. Surety, Fidelity & Deposit Co. of Maryland. Limit, 20 working days. Forfeit, none. Plans and Filed May 5, '16. Dated May 5, '16. specifications filed.

PAINTING ON ABOVE.
Contractor..Jas. E. Harrison, 1216 M St., Fresno.
Filed May 5, '16. Dated Apr. 3, '16.
On 1st and 10th of each month 75%
TOTAL COST, $1749
Bond, $900. Sureties, J. L. Beall and J. N. Lisle. Limit, Oct. 1, 1916. Forfeit, none. Plans and specifications filed.

WAREHOUSE
E side S. P. RESERVATION, bet. Kern and Inyo Sts., Fresno. Warehouse.
Owner.....Madary's Planing Mill, 860 H St., Fresno.
Architect ...None.
Contractor..J. W. Smith, 807 M St., Fresno.
COST, $9000

BRICK WAREHOUSE
5 ACRES OF E ½ OF NE ¼ OF SE ¼ of Sec 10, 14-20, Fresno. All work for brick warehouse.
Owner.....California Products Co., Butler Ave., Fresno.
Architect ...None.
Contractor..R. F. Felchlin, Rowell Bldg Fresno.
Filed May 6, '16. Dated May 3, '16.
75% of all bills weekly.....
Usual 35 days.....Balance
OWNER to pay all bills and contractor guarantees the building, including his 10% for services, not to exceed $1231
Bond, none. Limit, June 15, 1916. Forfeit, none. Plans and specifications filed

DWELLING
LOTS 13 AND 14 BLK 22, Belmont Addition, Fresno. Dwelling.
Owner.....Johanna Sackerson, 1248 U St., Fresno.
Architect ...None.
Contractor..C. W. Johnson & Son, 2729 McKenzie St., Fresno.
COST, $2350

SIDE WALKS, ETC.
LOCATION NOT GIVEN, Fresno. All work for installing side walks, stepping and curbs for State Normal School.
Owner.....State of California.
Architect ...None.
Contractor..L. W. Pottillo.
Sub-Contractor..Greenback Plastering Co., 110 Jessie, S. F.
Filed May 9, '16. Dated May 8, '16.
As work progresses, 10 days after commencement 76%
10 days after..... 25%
TOTAL COST, $2000
Bond, none. Limit, 30 days. Forfeit, none. Plans and specifications, none.

DWELLING
SAN RAFAEL. All work for two-story dwelling.
Owner.....Mrs. Chester Kemp, San Rafael.
Architect ...John R. Wieland, 213 Lick Bldg., San Francisco.
Contractor..W. E. Abbott, 7 Stevens Place, San Rafael.
Filed May 9, '16. Dated May 5, '16.
Payments not given.....
TOTAL COST, $3175
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

LIENS FILED.

FRESNO COUNTY.

May 5, 1916—LOTS 7 AND 8 BLK 81, Fresno. C Martin, $100; Dick Aakian $96 vs M M Shooshan.....

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
May 6, 1916—SEC 1, 20-15 (drilling oil well No. 46), Fresno. Kern Trading Oil Co to whom it may concern.....May 3, 1916

BUILDING CONTRACTS

SACRAMENTO COUNTY.

ALTERATIONS
SOUTHERN PACIFIC COMPANY'S TCT of land, Sacramento. Remodel and build one-story frame and steel factory type construction building.
Owner.....Central Pacific Railway Company.
Architect ...None.
Contractor..Southern Pacific Railway Company.
COST, $55,000

FRAME DWELLING
NO.2210 SEVENTEENTH ST., on N ½ of S ½ Lot 4 V, W, 16th and 17th Sts., Sacramento. Five-room frame dwlg.
Owner.....B. Nichols, Sacramento.
Architect ...None.
Contractor..E. Thomas, 2021 24th St., Sacramento.
COST, $2250

FRAME DWELLING
HOLLY AVE on Lot 58, East Sacramento. One-story 6-room frame dwelling.
Owner.....Umberto Fea, Sacramento
Architect ...None.
Contractor..S. Mackey, 1048 Crandell Ave., Sacramento.
COST, $2050

ADDITION
NO. 2330 TWENTY-EIGHTH ST., on S ½ Lot 5 W, X, 27th and 28th Sts., Sacramento. Addition to store.
Owner.....Ed. Manby, 2330½ 28th St., Sacramento.
Architect ...None.
Contractor..M. G. Burnside, 2810 Wabash Ave., Sacramento.
COST, $850

ALTERATIONS
NO. 504 FIFTEENTH ST., on S ¼ of N ¼ Lot 4 E, F, 14th and 15th Sts., Sacramento. Remodel exterior of residence.
Owner.....Mrs. Dave Ahern, 1023 J St., Sacramento.
Architect ...None.
Contractor..R. M. Smith, 2017 18th St., Sacramento.
COST, $450

GARAGE
NO. 1301 O ST., on S ½ of W ½ Lot 8 N, O, 13th and 14th Sts., Sacramento. Private garage.
Owner.....Emery Oliver, 1301 O St., Sacramento.
Architect ...None.
Contractor..Geo. W. Martin & Son, 1219 19th, Sacramento.
COST, $370

SLEEPING PORCH
NO. 1523 E ST., on E 66 feet Lot 6 D, E, 15th and 16th Sts., Sacramento. Build sleeping porch on dwelling.
Owner.....M. H. Buell, 1522 D St., Sacramento.
Architect ...None.
Contractor..C. J. Hopkinson, 1318 25th St., Sacramento.
COST, $300

ALTERATIONS
VINE AVE, LOT 1834, Park Terrace, Sacramento. Remodel residence.
Owner.....Mrs. Laura Fites.
Architect ...None.
Contractor..N. Fruhauf, 2802 Parker Ave., Sacramento.
COST, $250

FRAME DWELLING
NO. 2006 TWENTY-FOURTH ST., on S ½ of N ½ Lot 4 T, U, 23rd and 24th Sts., Sacramento. Two-story 6-room frame dwelling.
Owner.....Philip Wolf, 2101 N St., Sacramento.
Architect ...None.
Contractor..Theodore Schluckebier, 2604 California Ave., Sacramento.
COST, $3000

PAVING
ALL LABOR, MATERIALS AND APpliances necessary to pave between rails and for 2 feet outside of the outside edge of the ball rails; all S. P. track existing at even date herewith on N to Q streets, Sacramento.
Owner.....Southern Pacific Company.
Architect ...None.
Contractor..McGillivray Constr. Co., Nicolaus Bldg., Sacramento
COST, Concrete base and asphaltic wearing surface, 17-810 per sq. ft.; concrete base, dry concrete cushion and granite blocks, 40 cts. per square foot.

HOSPITAL
UPPER STOCKTON ROAD on Sacramento County Hospital Tract, Sacramento. Two-story Dennison tile hospital building (Nurses' Home).
Owner.....County of Sacramento.
Architect ...R. A. Herold, Forum Bldg., Sacramento.
Contractor..Wm. C. Keating, Forum Bldg., Sacramento.
COST, $35,970

FRAME FLATS
NO. 1515 TWENTY-SEVENTH ST., on S ¼ Lot 1, O, P, 27th and 28th Sts., Sacramento. Two-story frame (4) flats.
Owner.....Mrs. A. R. Brown, 1229 L St., Sacramento.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
Filed May 5, '16. Dated Apr. 24, '16.
COST, $6250

FLATS
S ½ LOT 1, G, H, 16th and 17th Sts., Sacramento. Four 4-room flats.
Owner.....Clara E. Thielden.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
COST, $5500

RESIDENCE
4 MILES FROM ROSEVILLE STATION, Sacramento. Six-room residence.
Owner.....L. A. Wallace, 2222 4th Ave Sacramento.
Architect ...None.
Contractor..G. E. Harvie, 2212 T St., Sacramento.
COST, $2950

FRAME DWELLING
NO. 1710 TWENTY-SEVENTH ST., on N ½ of S ½ Lot 4 Blk Q, R, 26th and and 27th Sts., Sacramento. Five-room frame dwelling.
Owner.....E. J. Flint, Yolo, Cal.
Architect ...None.
Contraclor..Corum & White, 2523 1st Ave., Sacramento.
COST, $2000

FRAME DWELLING
M STREET ROAD, Lot 2, Tullar Tract, Sacramento. Five-room frame dwlg.
Owner.....Emilio Badavero, Upper Stockton Road, Sacramento.
Architect ...None.
Contractor..Chas. A. Vanina, 2022 M St., Sacramento.
COST, $1950

DWELLING
MILLER AVE., on Lot 1236 Wright & Kimbrough Tract 27, Sacramento. Four-room dwelling.
Owner.....Lucy R. Oatman, 907 F St., Sacramento.
Architect ...None.
Contractor..Theilbabro & Bender, North Sacramento.
COST, $1750

REMODEL DWELLING
NO. 1617 TWENTY-FOURTH ST., on N ½ Lot 8, P, Q, 24th and 25th Sts., Sacramento. Remodel dwelling.
Contractor..G. E. Harvie, 2212 T St.,
Owner.....Mrs. E. Winters, Premises.
Architect ...None.
Sacramento.
Filed May 5, '16. Dated May 1, '16.
COST, $1675

DWELLING
HAWLEY AVE., Lot 35 East Sacramento. Five-room frame dwelling.
Owner.....E. C. McCormick, 1308 19th St., Sacramento.
Architect ...None.
Contractor..Carl Koch, 3330 Cornell Ave., Sacramento.
COST, $1500

MOVE DWELLING
NO. 1321 NINTH ST., to 312 S St., on E ½ Lot 2 S, T, 3rd and 4th Sts., Sacramento. Move one-story frame dwelling.
Owner.....Joe Silva.
Architect ...None,
Contractor..F. H. Todhunter, 312 Levee Broderick.
COST, $1342

BRICK ADDITION
NO. 2906 THIRTY-FIFTH ST., on S 20 feet Lot 20, W. S. Saunder's Sub "B" of South Sacramento. Brick addition to residence.
Owner.....W. T. Foster, 2901 35th St., Sacramento.
Architect ...None.
Contractor..Chas. Vanina, 2022 M St., Sacramento.
COST, $996

ELECTRIC SIGN
NO. 728 K ST., Sacramento. Metal vertical electric sign.
Owner.....Wm. Trust, 700 L St., Sacramento.
Architect ...None.
Contractor..John A. Crombach, 1005 J St., Sacramento.
COST, $765

ALTERATIONS
NO. 1114 TENTH ST., on S 20 feet of E 60 feet Lot 4, K, L, 9th and 10th Sts., Sacramento. Remodel store front.
Owner.....Nettie Evans.
Architect ...None.
Contractor..Siller Bros., 1414 13th St., Sacramento.
COST, $100

BUILDING CONTRACTS.

SONOMA COUNTY.

CONVENT
PETALUMA. Two-story frame and plaster convent.
Owner.....St. Vincent's Academy.
Architect ...John J. Foley, 46 Kearny, San Francisco.
Contractor..Fred Cullen, Petaluma.
COST, $12,000

PARISH HALL
PETALUMA. Two-story frame and plaster parish hall.
Owner.....St. Vincent's Academy.
Architect ...John J. Foley, 46 Kearny, San Francisco.
Contractor..Fred Cullen, Petaluma.
COST, $10,000

FRAME CLUB HOUSE
SONOMA. All work for frame club house.
Owner.....Sonoma Valley Women's Club.
Architect ...None.
Contractor..A. E. Warriner.
Filed May 6, '16. Dated April 26, '16.
Frame up $777
Building enclosed 777
Plastering completed 777
Building accepted 777
Usual 35 days..... 777
TOTAL COST, $3885
Bond, $982.50. Surety, National Surety Co. of New York. Limit, 120 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SONOMA COUNTY.

RECORDED ACCEPTED
May 5, 1916—CLOVERDALE. A Bocci to whom it may concern..Apr. 28, 1916

LIENS FILED.

SONOMA COUNTY.

RECORDED AMOUNT
Apr. 28, 1916—SANTA ROSA. J P Fitts Lumber Co vs F L Whetstone $119.53
May 6, 1916—SANTA ROSA. F Berka Lumber Co vs F S Boedefeld..$275.27

COMPLETION NOTICES

SAN JOAQUIN COUNTY.

RECORDED ACCEPTED
Apr. 24, 1916—W MAIN, bet. Commerce and Madison, Stockton. Ant. Sanguenetti to McPhee & Totton.. .....April 24, 1916

A FRENCH EXPOSITION.

"The Reconstructed City" is the name of the world's exposition to be held in Paris, France, beginning May 15, and lasting for four months, and back of this exposition is a story showing that with all Germany's wonderful efficiency, the French are showing an equal amount of foresight. "The Reconstructed City" is a French national exposition to teach, even at this early date, how to rebuild the war-wrecked portions of northern France, when the war is ended. That the French government is already planning on an entire reconstruction of the cities destroyed by the movements of armies back and forth across the northern provinces is evidence of foresight of an unusual type.

It is to be a French exposition entirely, and America's part has been only the sending by lumber manufacturers of an exhibit showing the possibilities of American timber in this work of reconstruction.

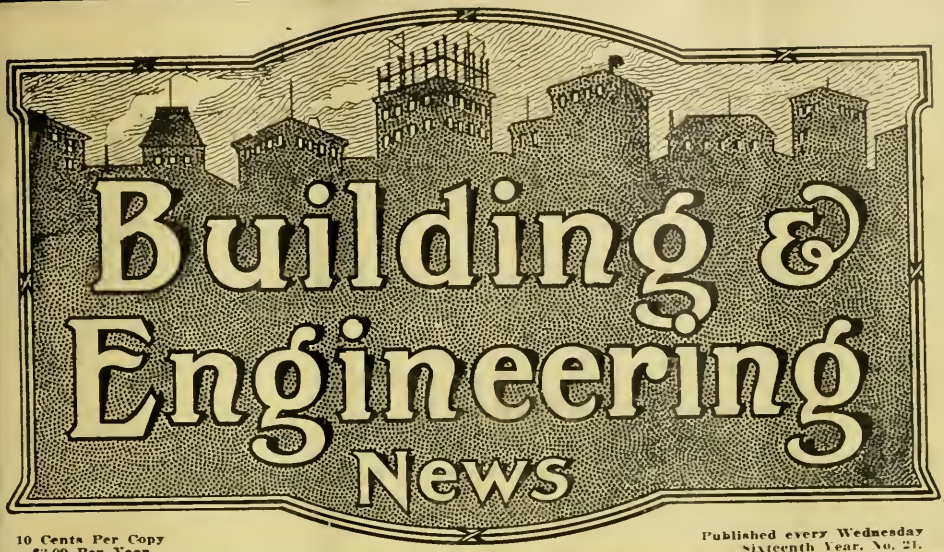
"The Reconstructed City" is in several sections, different part of the exposition being devoted to such departments as roadbuilding, city planning, city residence construction, city industrial buildings, and rural work. In some cases the city planning department will work for an entire reconstruction on entirely new lines of the cities which have been wrecked by bombardment. In other cases only building construction along the old streets will be required. The road work will be important, also, for shells have raised havoc with the famous highways of northern France. Ruined farms will be no small part of the problem of reconstruction.

The Southern Pine association, through its European agent, learned of the projected exposition, and was able to get an exhibit, not only of southern building types, but of typical American structural work on the last ship leaving New Orleans before the exposition. The American lumbermen have a series of models of buildings, for city and farm, including a small mill construction building, for industrial purposes, and models particularly of farm buildings such as an ideal barn, swine house, poultry house and granary. Photographs of groups of these buildings are included, and the balance of the exhibit is made up of samples of Southern Pine in various stages from the original timber to the finished lumber. One of the uinque features of the exhibit will be a relief plan of an ideal farm, with model buildings worked in, and a landscape effect with hills in relief, streams and roads.

NOTICE OF NON-RESPONSIBILITY.

ALAMEDA COUNTY.

May 9, 1916—LOT 35 BLK "C" Map Toler Heights, Okd. Citizens Bldg & Loan Ass'n of San Francisco as to improvements on leased property..



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OUR ECONOMIC GROWTH.

A graphic form of presenting statistics of our economic progress has been adopted by the Bureau of the Census in a publication which it calls "The Statistical Atlas." This work comprises nearly seven hundred maps and over two hundred diagrams, besides comparative figures, etc., for censuses from 1790 to 1910. The subjects covered are population, agriculture, manufactures, mines, cotton, finance, religion, marriage, and the insane. Besides the illustrations there are nearly one hundred pages of descriptive texts. It is believed that the volume will have a far more general appeal than the usual census publications, for by means of it the larger meaning of figures can be obtained at a glance instead of by a close examination. Some of the facts brought out in the volume are noted in Bradstreet's as follows:

"The enumeration area of the United States increased from 892,135 square miles at the date of the first census in 1790 to 3,627,557 square miles, including the outlying possessions of Alaska, Hawaii, and Porto Rico, at the census of 1910. In the meantime the population grew from 3,929,212 to 93,402,151 inhabitants. To put the comparison in another way, while the area of the country was a little over four times as great in 1910 as in 1790, the population was nearly twenty-four time as large.

"As respect density of population, great variety is shown in different parts of the country. Excluding the District of Columbia, Rhode Island, with 508.5 persons to the square mile, is the most densely populated State in the Union. Besides Rhode Island, only three States show a population of more the 200 persons to the square mile, these being, in order of density, Massachusetts, New Jersey, and Connecticut. There are only ten States with a density in excess of 100 persons per square mile, while there are eleven with fewer than ten persons per square mile. The lowest degree of density is shown by Nevada, which has only seven persons to ten square miles. There are still, it will be seen, considerable stretches of territory with room for a more abundant population.

"The westward trend of population has been most noticeable. At the time of the first census in 1790, when the bulk of the inhabitants were strung along the Atlantic seaboard, the center of population was twenty-three miles east of Baltimore. In 1910 the center of population was in the western part of Bloomington, Monroe County, in southern Indiana, a point over 500 miles nearly due west of the first center.

"Turning to agriculture, we find that the number of farms increased from 1,119,307 in 1850, the earliest year for which we find such figures, to 6,361,502 in 1910, and the number of acres in farms from 293,560,614 in the former to 878,798,325 in the latter year. The proportion of farm land improved rose in the same period from 38.5 to 54.4 per cent. In other words, while but a little over three-eights of the smaller acreage of farm lands was improved in 1850, considerably more than half the larger acreage was improved in 1910. Meanwhile, the value of the farms had so increased that the total in 1910 was over ten times as great as at the middle of the last century, namely, $40,991,449,090 at the last census, as compared with $3,967,343,-580 in 1850.

"The growth in the value of manufactures has been even more remarkable, the value of products rising from $1,019,106,616 in 1850 to $20,672,-051,870 in 1910. Statistics covering all kinds of mineral production do not go back beyond 1870, when the total value of mineral products was given as $218,598,994. In 1910 the total value was $1,990,911,135, or over nine times as great. The figures here given are, of course, available in the census reports, but the presentation in graphic form of the contrasts they afford will tend to impress the student of economic development and aid his memory.

"The same may be said of such facts as those in regard to the distribution of cotton production and consumption, as to which the census bulletin notes that of the worlds mill supply of cotton, three countries contributed more than four-fifths of the world's total. These countries were the United States, which produced 60.9 per cent of the whole supply; India, which contributed 17.1 per cent, and Egypt, which yielded 6.6 per cent. Of the world's supply the United States consumed the largest proportion, namely, 26.9 per cent, Great Britain being second with 20.6 per cent; the other principal consumers being, in order Germay, British India, Russia and Japan. The attentive reader of the Statistical Atlas will learn from, or have his memory refreshed by its pages regarding other matters of interest, as, for example, the fact that, with the exception of New Zealand, Australia, and Sweden, all other countries had a higher death-rate than the United States in the period from 1900 to 1911."

In an investigation undertaken by the United States Bureau of Standards to determine the best methods, mixtures, and materials to use in plasters and stuccos, a test structure has been completed containing approximately 50 exposed test panels of various stuccos applied to numerous commercial bases. A report on the progress of the investigation and a discussion of the condition of the existing panels at the present time is in preparation for early publication.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 6 story and base. Class C construction, $60,000. Architect, W. G. Hind, associated with Clyde S. Payne, Jr., 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, south Bush 166 east of Jones, covering an area of 54½ by 137½ feet. Will contain a total of 35 modern apartments of two rooms and bath, a large lobby, roof garden and social rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, automatic elevator, oil burning equipment and hot water supply. Bath rooms finished in tile and equipped with showers. Marble and tile wainscot in the vestibule. Imported tapestries. Exterior faced with granite and pressed brick. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 10 story and base. Class A construction, $500,000 to $750,000. Architects, Charles Paff & Co., 343 Sansome street, S. F. Owners, Gothic Corporation. Location, southwest Mason and Sutter streets, covering an area of 137½ by 120 feet. The building is so planned that every room in every apartment will receive the sun a portion of the day, the main area and the roof forming solariums which are wholly protected from the prevailing cold winds The building will be of steel frame construction, with reinforced concrete floors and walls and fireproof. The Mason and Sutter street fronts faced with architectural "mat-glazed" ivory white terra cotta. The balance of all exterior walls are white enameled cement finish. The machinery or subbasement will he 40 by 137½ feet and will contain the heating plant, the electric and pneumatic cleaning machinery and exhaust fans with an entrance on Mason street. The basement will be 100 by 137½ and will contain the men's and women's salt water natatoriums steam hot and massage rooms and a garage with an entrance on Mason street. The mezzanine basement will occupy the entire area of lot and contain the service delivery room, store rooms for each apartment, the living rooms for the male employees and the bowling alleys, with an entrance on Mason street. The first to the tenth floors, inclusive, with the entrance on Sutter street, will be arranged in five, six and ten-room apartments with finish as desired by individual holders. On the roof two billiard and two ball rooms will be provided, as well as two tennis courts and the roof gardens. The elevator service will comprise two fast passenger elevators, and six full automatic service elevators. The finish of the main vestibule and lobby will be in "Portola" Columbia and black and white Belgian marble, with "Faience" tile floor and wainscot inserts, and ornamental plaster cornices and ceilings. The corridor floors and the wainscot will be of "Magnalith," the same as for the floors and wainscot of the kitchens, pantries and service elevator lobbies. All corridors and the main lobby will have Axminister runners and rugs and the walls and ceilings will be decoratively stenciled in oil paints. The halls and the three main rooms of each apartment will have parquet floors. The hallways and all other rooms will have hard pine floors. The bath rooms will have Encaustic tile floors and enameled tile wainscot. The wood finish of hall and main rooms of each apartment will be in hardwood, all natural finished, with all the balance in selected pine, enameled white finish. Each apartment will be provided with every known fixture of convenience, including wall beds. All the partitions will be constructed of metal studs and plaster. The hall and the three main rooms of each apartment will have ornamental plaster cornices and decorated ceilings All walls will be papered with decorative paper, and the plaster walls and ceilings of kitchens, bath rooms and pantries will be in enamel finish. In the natatorium, the swimming tanks will be lined with white enameled vitreous brick and glazed with terra cotta life rails, marble floors and wainscot Marble walls and divisions will be used in the shower rooms, tile floors and wainscot in the massage and hot rooms, and tile floors, walls and ceilings in the steam rooms and the entries thereto. The plaster walls and ceilings in these departments will be in white enamel finish. All the glazing throughout the building will be of clear and wire plate glass. The skylights will be glazed with rough wire glass and the large ceiling lights over swimming tanks with art glass. All plumbing fixtures and hardware will be of the best quality and highest grade. The architect states that working drawings will not be ready for figures for at least six months.

SAN FRANCISCO—Apartment house, 6 story and base. Cass A construction, $500,000. Architects, Willis Polk & Co., Hobart Bldg., S. F. Owners, Selab Chamberlain and John W. Proctor. Location, California between Mason and Taylor, covering an area of 105 by 137½ feet. Construction fireproof with complete steel frame. Will contain 20 apartments ranging from five to twelve rooms. Interiors finished to suit tenants, who will be required to take long-term leases. Complete mechanical equipment including steam heat, oil burning equipment, hot water supply elevator service and vacuum cleaning Swimming pools and completely equipped gymnasiums. Exterior faced with pressed brick and terra cotta. Plans being prepared.

OAKLAND, CAL.—Apartment house 2 story and base, frame, $8,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, D. M. Heagerty Location, north East 11th street east of 41st avenue. Will contain a number of two and three room apartments. Interior finish pine and white enamel. Hardwood floors. Central heating system and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $8,000. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. Heijne. Location, 41st and Webster streets. Will contain eight apartments of two rooms and bath. Interior finish pine with some white enamel and redwood. Hardwood floors. Gas steam radiators. Hot water system. Wall beds, Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $35,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Broadway near 40th street, covering an area of 40 by 120 feet. Will contain a number of two-room apartments. Each apartment with shower bath. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning furnace and hot water system. Wall beds. Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

Contracts Awarded.

SEATTLE, WASH.—Apartment house, 3 story and base, brick, $45,000. Architect, C. Alfred Breitung, Walker Bldg., Seattle. Owner, Phillip Miller. Contractor, William Willis, Crary Bldg., Seattle. Contract price, $45,000.

BANKS

UKIAH, MENDOCINO CO., CAL.—Bank and offices, 2 story and base, brick, $15,000. Architect, W. H. Weeks, 75 Post street, S. F. Owner, Bank of Mendocino County. Bids have been opened for the construction of this building and a contract will be awarded shortly. The entire first floor will be occupied by the bank and will be finished in hardwoods and tile. Special bank fixtures and vaults are to be installed. Upper floors will be arranged for modern offices and will be finished in pine and redwood. A central heating system will be installed. Exterior will be faced with pressed brick.

Contracts Awarded

ANAHEIM, ORANGE CO., CAL.—Bank and offices, 3 story and base, brick and steel, $50,000. Architect, M. Eugene Durfee, Anaheim. Owners, First National Bank of Anaheim. Contractors, Nance Construction Co., 9th street and Central avenue, Orange. Contract price, $50,000. The steel contract has been let separately to the Baker Iron Works.

BATH HOUSES.

CALISTOGA, NAPA CO., CAL.—Bath house, 1 story and base, concrete and frame. Cost not stated. Architect, Frank S. Holland, Call Bldg., S. F. Owners, Calistoga Mud and Sulphur Baths. Will contain rest room, hot rooms, dressing rooms and office. A separate building, also one story, will be erected to house the pumping plant. New wells have been put down and a continuous flow of hot sulphur water has been obtained. Special plumbing fixtures will be required. Exterior will be faced with cement plaster. Plans complete and figures are being taken.

BONDS

WOODLAND, YOLO CO., CAL.—Through an error in advertising the $200,000 court house bond issue, which carried by a large vote, it will be necessary for the Supervisors to call another election. Plans for the court house have already been prepared by a San Francisco architect.

PLACERVILLE, EL DORADO CO., Cal.—May 31st is the date set to vote bonds of $30,000 for paving Main street, which is the route of the State highway through this city.

The Board of Education has called an election on the same date to vote bonds of $35,000 for the construction of two grammar schools.

VISALIA, TULARE CO., CAL.—By a vote of 665 to 99 the residents of Visalia approved the proposal to issue bonds of $105,000 for the construction of three new schools, made necessary by the rapid growth of the district.

WOODLAND, YOLO CO., CAL.—Bonds of $55,000 were voted last week for improving and extending the municipal water system, and a $6,000 issue for sewer extensions. The proposition to issue bonds of $10,000 for the construction of a city owned ice plant was defeated.

FRESNO, FRESNO CO., CAL.—The City Council has ordered the sale of $500,000 sanitary sewer and storm drainage bonds, which were voted on May 3rd. Bids for the purchase of the bonds will be opened on June 19th.

REEDLEY, FRESNO CO., CAL.—At a recent meeting held in Fresno, five irrigation districts, namely, the Fresno Canal District, Tulare Lake District, Alta Irrigation, Consolidated District and Laguna District, formerly reported through their respective committees as strongly favoring the formation of one large district for conservation of the waters of Kings River through the construction of a $6,000,000 storage dam in the foothills.

LOS ANGELES, CAL.—The City Council has instructed the City Attorney to prepare an ordinance for the submission of a $1,800,000 bond issue at the general bond election to be held June 6, for the construction of sewage disposal plans at Hyperion, San Pedro and Terminal. The combined capacities of these plants will be sufficient to serve a population of 1,000,000.

MERCED, MERCED CO., CAL.—The election to vote on a $100,000 bond issue for erecting a high school building has been postponed to June 1.

HANFORD, KINGS CO., CAL.—The trustees are seeking options on a school site and the bond issue will probably be again promoted.

LONG BEACH, LOS ANGELES CO., CAL.—The $367,000 school bond election project has been defeated.

LINDSAY, TULARE CO., CAL.—Petitions asking for an election to vote a $1,400,000 bond issue for constructing the irrigation works for the Lindsay-Strathmore Irrigation District have been placed in circulation. Two dams, ditches and tunnels, about 11 miles in length, and a temporary system consisting of about 45 wells and pumping plants will be constructed, as reported April 8. Plans were prepared by S. E. Kieffer, 57 Post street, San Francisco. John H. Quinton, Hollingsworth Bldg., Los Angeles, is consulting engineer.

BRIDGES, DAMS AND HARBOR WORK

UKIAH, MENDOCINO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. At the last meeting of the County Supervisors plans and specifications for the construction of the proposed new bridge across Salmon Creek were accepted by the Board, and it was ordered that bids be advertised for the construction. Bids to be received on wooden piling and also a bid on reinforced concrete piling. Plans may be had from the County Clerk.

PLACERVILLE, EL DORADO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Placerville. Owners, El Dorado County. Bids will be received until June 6th at 2 p. m. for furnishing all labor materials and mechanical workmanship necessary for the construction of a new bridge over the South Fork of the American River near the town of Coloma, and the clearing of said ground for the reception of the bridge.

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer not selected. Owners, Calaveras County. At the last meeting of the County Supervisors the following submitted plans and specifications for a reinforced concrete bridge over the North Fork of the Calaveras River between the towns of San Andreas and North Branch: Leonard & Day, A. V. Saph, Given & Pearce and Commonwealth Engineering Co. Action in the matter was laid over. Further mention will be made of this work.

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. At the last meeting of the County Supervisors W. S. Coulter, County Surveyor, was directed to immediately prepare plans and specifications for a reinforced concrete bridge of the girder type over the Middle Fork of the Mokelumne River near the town of West Point, and it was further ordered that the Clerk of the Board advertise for sealed bids, said bids to be received by and filed with the Clerk up to 1 o'clock p. m. Monday, June 5th, 1916. Further information may be had from the County Clerk.

BAKERSFIELD, KERN CO., CAL.—Bridges and road construction. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be received until June 8th at 10 a. m. for grading, paving and construction of bridges and culverts on Division 6, Section 2, McKittrick-Maricopa road, being that portion lying between a point 400 feet west of the office of the American Oilfields Co. and the west city limits of Taft, length approximately 7.45 miles.

SAN JOSE, SANTA CLARA CO., CAL.—Bridges, culverts, etc., reinforced concrete. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. At the last meeting of the County Supervisors plans and specifications for the construction of a reinforced concrete bridge on Columbet avenue in San Marin were adopted, and the Clerk directed to advertise for bids to be opened on Monday, June 19th, 1916, at 11 a. m. Plans and specifications for the construction of a reinforced concrete culvert on Foothill avenue at Echo ranch in the County of Santa Clara, were also adopted and the Clerk directed to advertise for bids to be opened on Monday, June 19th 1916, at 11 o'clock a. m. The same action was taken on plans and specifications for the construction of a reinforced, single-span, slab type culvert on Foot hill avenue in the County of Santa Clara, and the Clerk directed to advertise for bids to be opened on Monday, June 19th, 1916, at 11 o'clock a. m. Plans and specifications for the construction of a reinforced concrete culvert on McKeen road near Bailey were also adopted and the Clerk directed to advertise for bids to be opened on Monday, June 19th, 1916, at 11 o'clock a. m.

SEATTLE, WASH.—Dock work, $30,000. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids have been called for by the Port of Seattle Commission, Bell Street Dock, to be opened June 7th for the excavation, slope revetment and substructure work for the extension of the Spokane street wharf. The dock will be 113 by 380 feet, the improvement involving 351,000 feet lumber, 8,870 pounds steel column bases, 390 feet track, 280 feet crane rail, 47,000 feet creosoted piling, 3,000 feet untreated piling and 6,000 cubic yards of rock riprap. The dredging will cost $4,000; slope protection, $11,500, and substructure, $12,000. Plans may be had from the City Engineer at Seattle.

SEATTLE, WASH.—Guide wall, reinforced concrete, $17,285.51. Engineer, United States Engineer, Burke Bldg., Seattle. Owners, United States Government. Bids opened in the U. S. Engineer's office for the construction of an 800-foot guide wall at the Lake Washington Canal locks show Lester & Monohan, 18 Colman Dock, Seattle, the lowest bidder at $17,285.51. Work involves 35,710 cfet creosoted piles, 1,470 feet plain piles, 154,844 feet lumber, 1,200 pounds spikes, 12,000 pounds iron and steel.

MODESTO, STANISLAUS CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, associated with Consulting Engineers Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. New bids have been called for on the construction of the bridge to be erected over the Tuolumne River near Modesto. The structure will be over 1,000 feet long, 40 feet wide, and provides for a wagon road and two foot paths. Bids will be opened on June 13th at 2 p. m.

MANHATTAN BEACH, LOS ANGELES CO., CAL.—Pier, reinforced concrete and timber, $70,000. Engineer, A.

L. Harris, Phoenix, Ariz. Owners, Town of Manhattan Beach. Engineer A. L. Harris has completed plans for the new cement pier to be erected to replace the wooden structure recently destroyed. It will be 1,600 feet long, on reinforced concrete piers, with observation tower, boat landing and public comfort stations.

OCEAN BEACH, SAN DIEGO CO., CAL.—Jetties ad pier, concrete and timber, $85,000 and $35,000. Engineer, City Engineer, Ocean Beach. Owners, City of Ocean Beach. The War Department has granted permission to the city to construct two jetties and a pleasure pier at Ocean Beach. City Engineer George Cromwell is preparing plans, which consist of a concrete pier 800 feet long, with comfort station, cement steps, similar to the pier erected at the La Jolla biological station, to be erected at the foot of Narraganset street. One jetty will extend from Narraganset street, and the other from the south side of the channel of Mission Bay. Estimated cost, pier $35,000; and the jetties $85,000.

Contracts Awarded

SAN FRANCISCO—Pier alterations, $22,133. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Contractors, Healy-Tibbitts Construction Co., 9 Main St., S. F. Contract price, $22,133. A complete list of the bids received for this work will be found under the heading of San Francisco in this issue.

MERCED, MERCED CO., CAL. — Bridge, concrete and timber, $1,281. Engineer, County Surveyor, Merced. Owners, Merced County. Contractor, W. H. McElroy, Merced. Contract price, $1,281.

CHURCHES

PENDLETON, ORE.—Mausoleum, 1 story, stone and reinforced concrete, $53,000. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Portland Mausoleum Co. Will contain a large number of crypts, a chapel and office. Interior finish Caen stone. Modern plumbing and electric work. Art glass windows and ornamental iron and bronze. Exterior faced with granite and marble. Plans being prepared.

CITY APPROPRIATIONS.

The following appropriations have been recommended to the San Francisco Board of Supervisors for construction purposes during the ensuing year:

School Departments.

The $270,000 which would be realized by the special 5 per cent tax, or so much thereof as may be necessary, might very well be considered as providing for the following urgent school needs:

Fairmount School, plans and specifications	$12,000
Fairmount School, additional land	40,000
Monroe School, additional land and new building	90,000
Mission High School, construction of annex	15,000
Dudley Stone School, additional land	12,000
Parkside School (new), grst unit	12,500
Edison School, additional land	4,500
James Lick School, additional land	10,000
Fremont School, additional land	12,000
Emerson School, additional land and temporary building	12,500
Garfield School, additional land	5,000
Henry Durant School, additional land	5,000
Crocker School, additional land	6,000
Sherman School, additional land	6,000
Visitacion School, additional land	9,000
Francis Scott Key School, raising and repairs to	9,000
John Swett School, additional land	7,000
Douglass School, improvement of yard	2,500

Commercial Department.

Hunter's Point Road	$45,000
Opening and paving Marina Boulevard	30,000
Telegraph Hill Boulevard	10,000
Market Street extension	25,000
Twin Peaks Boulevard extension	40,000

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Warehouse and office, 6 story and base, reinforced concrete, $250,000. Engineers, MacDonald & Kahn, Rialto Bldg., S. F. Owners, Zellerbach Paper Co. Location, Montgomery and Francisco streets. Construction will be started at once. Concrete pile foundation. The designers will act as contractors also and will sublet much of the work.

BERKELEY, ALAMEDA CO., CAL.—Factory addition, 1 story, frame, $1,500. Architect, none. Owners, Manasse Block Tanning Co. Location, 4th and Camelia streets. Work will consist of erecting a one-story frame addition. Plans complete and work to be done by Day Labor.

SEATTLE, WASH.—Grain elevator, reinforced concrete, $90,000. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Plans have been authorized by the Port of Seattle Commission for the doubling of the capacity of the commission's grain elevator on the East Waterway, and plans have already been started for the work by Chief Engineer J. R. West. Ten additional reinforced concrete bins will be constructed. Bids will be called for the latter part of this week.

SEATTLE, WASH.—Mill addition, reinforced concrete, $250,000. Architects, Grant Smith & Co., Henry Bldg., Seattle. Owners, Fisher Flouring Mills Co. Location, West Waterway. The drawings show the first unit will consist of and 8 and 7 story mill building, 90 by 150 feet, and a 5 story 90 by 120 feet warehouse. A 90 by 102 feet extension will be made to the present dock. All building work will be of reinforced concrete construction. Further mention will be made of this work.

GARAGES

OAKLAND, CAL.—Garage, 1 story, brick and steel, $20,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Edward Sommarstrom. Location, 28th and Broadway. Designed for a commercial garage. Construction fireproof. Will contain office, storage space, wash rooms and repair department. A large mezzanine floor has also been provided. Interior finish pine. Cement floor. Metal window sash and frames and special gasoline storage tanks. Exterior faced with pressed brick. Plans being prepared.

SAUSALITO, MARIN CO., CAL.—Garage, 1 story, reinforced concrete, $18,000. Architect, T. Patterson Ross, 310 California street, S. F. Owners, Schnell Estate. The main portion of the building will contain a commercial garage while the rear, which extends out over the water, will be arranged for a wharf at which over 30 motor boats will be cared for. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Lighthouse Service, Launch.

The following bids were received by the lighthouse inspector, 17th district, Portland, Ore., for one steam launch and four small boats for tender Cedar:

George W. Kneass, San Francisco, Cal., $6,140.

Tregoning Boat Co., Ballard, Wash., $8,865.

Wilson Bros., Astoria, Ore., $5,630.

U. S. Navy Yard, Mare Island, Cal., $4,923.

U. S. Navy Yard, Puget Sound, Wash., $6,500.

William S. Brusster, Jr., Oakland, Cal., $4,888.87; accepted.

Army Work Authorized.

Plans have been approved for the following work at army posts; interested parties should address the constructing quartermaster of each post:

Letterman General Hospital, San Francisco, Cal., constructing ward building and medical and surgical dispensaries.

Oakland Harbor, Cal., Dredging.

The bid of the American Dredging Co., of San Francisco, Cal., $37,596 in amount, has been accepted for dredging in Oakland Harbor, Cal.

Los Angeles, Cal., Vacuum Cleaner.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for vacuum cleaning machine for the U. S. post office and court house at Los Angeles, Cal.:

F. N. Newberry Electric Co., Los Angeles, Cal., $1,227; 150 days.

Spencer Turbine Cleaner Co., Hartford, Conn., $883; 65 days.

Hoaglam-Lakin Electric & Engineering Co., Los Angeles, Cal., $1,477; 100 days.

Atwood Vacuum Machine Co., Rockford, Ill., $915; 90 days.

Barker Bros., Los Angeles, Cal., $1,563; 40 days.

Denver, Colo., Waterproofing.

The contract for waterproofing, etc., of certain vault light construction in connection with the U. S. post office at Denver, Colo., has been awarded to P. F. Bossie, Denver, Colo., at $729; time six weeks.

Shoshone Project, Structures.

Bids for structures on Shoshone project, Wyo., were received at the U. S. Reclamation Service, Powell, Wyo., as follows:

Threet Bros. & Jolley, Lovell, Wyo., schedule 1, $16,259.60.

Security Bridge Co., Minneapolis, Minn., schedule 1, $15,735.96; 2, $40,541.15, total, $56,277.11.

Gates & Stebbins, San Diego, Cal., schedule 1, $15,292.30; 2, $38,615.90; total, $53,908.20.

SAN FRANCISCO—Officers' quarters, 12, 2 story, tile, brick or concrete. Cost not stated. Architect, Constructing Quartermaster's office, Fort Mason. Owners, United States Government. Over fifty sets of figures were received by the Constructing Quartermaster on May 18th for the erection of these buildings. A complete list of the bids received will be found under the heading of San Francisco in this issue.

HOSPITALS

SAN FRANCISCO—Hospital ward and dispensary, 2, 2 story, reinforced concrete, $15,000. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, Letterman General Hospital, Presidio of San Francisco. Plans have been officially approved for the construction of a two-story building to replace Ward J, 180 by 30 feet, and for a new dispensary building 99 by 46 feet. Construction will be fireproof. Exteriors faced with cement plaster, clay tile roofs. Steam heat from central plant. Interior finish pine, hardwood, tile and white enamel. Bids will be called for shortly.

LOS ANGELES, CAL—Hospital wards 1 story, reinforced concrete, $22,775. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. The National Fireproofing Co., Central Bldg., L. A. presented the low figure for this work and will probably be awarded the contract.

SAN PEDRO, LOS ANGELES CO., CAL.—Hospital, 2 story and base, reinforced concrete. Cost not stated. Architect, Charles F. Durr, San Pedro. Owner, P. H. Berg, 412 Severance Bldg., L. A. Will cover an area of 38 by 82 feet. Construction fireproof. Interior arranged for wards and single rooms. Steam heat, oil burning system, hot water supply and vacuum cleaning. Interior finish pine and white enamel. Hardwood floors. Bath rooms tile. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

HOTELS

SAN FRANCISCO—Hotel, 3 story and base. Class C construction, $25,000. Architect, Bert Christensen, S. F. Owner, Bernard Davidow, 46 Kearny street, S. F. Location, Third near Townsend street. Will contain stores on the first floor and a number of single rooms on the upper floors. Interior finish pine and redwood. Steam heat and a hot water supply. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures being taken.

VISALIA, TULARE CO., CAL.—Hotel and stores, 4 story and base, brick and steel. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owner, J. Sub Johnson. Will cover an area of nearly 100 by 100 feet. First floor arranged for stores besides the hotel lobby. Upper floors will contain in the neighborhood of 110 rooms, a large percentage of which will have private baths. Interior finish pine, hardwood and redwood. Steam heat, oil burning plant, hot water supply, vacuum cleaning and elevator service. Patent store fronts and marble bases. Tile bath rooms. Exterior faced with pressed brick. Plans being prepared.

LOS ANGELES, CAL.—Hotel, 4 story and base. Class C construction, $30,000. Architect, Charles E. Shattuck, Mason Bldg., L. A. Owner, A. L. Phillips. Location, 6th street near Ruth avenue. Will contain 60 rooms and a number of public baths. Interior finish pine. Steam heat, oil burning system and hot water supply. Bath rooms tile. Exterior faced with ruffled brick. Plans are being prepared.

CULVER CITY, LOS ANGELES CO., CAL.—Hotel, 3 story and base, hollow tile. Cost not stated. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owner, Leslie Cranbourne. Will contain a number of single rooms and baths. Interior finish pine. Steam heat and hot water supply. Oil burning furnace. Bath rooms tile. Exterior faced with cement plaster. Preliminary plans being prepared.

LIBRARIES

LAKEPORT, LAKE CO., CAL.—Library, 1 story, frame, $7,000. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, Town of Lakeport. Will contain reading rooms, Librarian's office and stack room. Lecture room in the basement. Interior finish pine. Maple floors. Exterior covered with cement plaster. Plans complete and contract to be let at once.

Contracts Awarded

BERKELEY, ALAMEDA CO., CAL.—Library heating and electric work. Cost as follows. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Contractors, Scott Co., 243 Minna street, S. F., heating and ventilating, $29,880. Ne Page-McKenny Co., 149 New Montgomery street, S. F., electric work, $20,426.

WALNUT CREEK, CONTRA COSTA CO., CAL.—Library, 1 story, frame, $2,550. Architect, none. Owners, Town of Walnut Creek. Contractor, C. Randolph Hook, Walnut Creek. Contract price, $2,550.

POST OFFICES

DOUGLAS, ARIZ.—Post office, 1 story and base, brick and stone. Cost not stated. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Plans have been completed and bids will be received up to June 21st for the construction, complete, of the new Federal building. Plans and specifications can be secured from the Custodian of the site at Douglas or from the Supervising Architect, Washington, D. C. An official proposal appears in another column of this issue.

RAILROAD CONSTRUCTION AND EQUIPMENT

Contracts Awarded.

LA GRANDE, ORE.—Roundhouse, 1 story, reinforced concrete, $40,000. Architect, none. Owners, Oregon-Washington Railroad and Navigation Co. Contractors, M. J. Hursen Co., Globe Bldg., Seattle. Contract price, $40,000.

RESIDENCES

SAN FRANCISCO—Residence, 2 story and base, frame. Cost not stated. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, Presidio Terrace. Will contain eight rooms, two baths and sleeping porch. A basement garage will also be provided. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

SAN FRANCISCO — Residences, 6, 1 story and base, frame, $2,000 each. Architect, none. Owner, Charles F. Reinhart, 17th and Kansas streets, S. F. Location, Wisconsin, 20th and Arkansas streets. Each dwelling will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owner, A. V. Anderson, 1604 10th avenue, S. F. Location, west 18th avenue south of Balboa. Each house will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residences, 5, 2 story and base, frame, $2,500 each. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Locations, 27th and 28th avenues south of Irving. Each dwelling will contain six rooms and bath. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $12,000. Architect, George William Kelham, Sharon Bldg., S. F. Owner, Mrs. George William Kelham. Location, Sea Cliff. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish hardwood and white enamel. Hardwood floors. Central heating system and hot water circulating system. Bath rooms tile and equipped with showers. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, E. & A. Company, Syndicate Bldg., Oakland. Location, south Marin west of Pomona. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, T. O. F. Malley, 3001 Grove street, Oakland. Location, north Alcatraz east of Ade-

line. Will contain five rooms and bath. Interior finish pine and redwood with white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, G. L. Mohr, University avenue, Berkeley. Location, San Carlos avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 1 story and base, frame, $4,000. Architect, Joseph A. Leonard, 85 Cerritos avenue, S. F. Owners, Urban Realty Co. Location, east Urbano Drive north of Victoria. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Open fire places and tile or brick mantels. Furnace heat and hot water system. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,500. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic, shiplap and brick veneer. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 1 story and base, frame, $2,000. Architect, G. H. Old, 1512 Castro street, S. F. Owner, C. G. Bemis, 2056 Mission street, S. F. Location, west Arlington avenue north of Mateo. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors in two rooms. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame. Cost not stated. Architects, Bliss & Faville, Balboa Bldg., S. F. Owner, Abraham Rosenberg. Location, Jackson near Spruce. Will contain twelve rooms, two baths and a basement garage. Interior finish pine, white enamel and hardwood. Hardwood floors throughout. Bath rooms finished in tile. Central heating system, probably hot water, hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residences, 3, 2 story and base, frame, $2,500. Architect, none. Owner, Fernando Nelson, 2701 Lincoln Way, S. F. Location, west 28th avenue north of Irving. Each house will contain five rooms and bath. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Some tile in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $7,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, W. G. Gilmour. Location, west Edgwood avenue south of Sunset. Will contain nine rooms, two baths and basement garage. Sun porches. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Ernest E. Dunn, 329 23rd avenue, S. F. Location, east 24th avenue north of Anza. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Sorority house addition, 3 story, frame, $4,500. Architect, none. Owner, Louis Engler, 2721 Haste street, Berkeley. Location, north Haste east of College. New portion of the building will contain nine rooms and two baths. Interior finish pine and hardwood with some white enamel. Hardwood floors. Heat from present plant. Open fire places and tile or brick mantels. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, J. F. Chambers, 206 Paza Bldg., Oakland. Location, west View street north of Mather. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by DayLabor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $7,500. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, T. D. Stevenson. Location, Claremont Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in baths which will be finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and new figures being called.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. Texdahl, 3035 Harper street, Berkeley. Location, west Texdahl south of Oregon. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 2, 2 story and base, frame, $4,500 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Country Club Heights. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Robert Wilson, 972 57th street, Oakland. Location, north 57th street west of Laurel. Will contain four rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residences, 4, 1 story and base, frame, $2,500 to $3,000 each. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner, Mr. Peters. Location, Northbrae. Each house will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 3, 2 story and base, frame, $4,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, Excelsior Heights. Each dwelling will contain seven rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel with some gum. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 3, 1 story and base, frame, $3,000 each. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner, John D. Garretson. Location, Willow street. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and white enamel with some southern gum. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms finished with tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, I. A. Kellogg, 3404 Champion street, Oakland. Location, west High street south of Santa Rita. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans

complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 5, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Dr. Cohen. Location, Country Club Heights. Each house will contain eight rooms, two baths and sleeping porches. Separate garages will be erected. Interior finish pine, hardwood, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 2510 Buena Vista avenue. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile floors. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $6,000. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, Mrs. Alpha Hollis. Location, Wheeler Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and ready for figures.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, La Loma avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, E. Maasberg, 3915 Greenwood avenue, Oakland. Location, west Park Boulevard north of Hampel. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,600. Architect, none. Owner, W. A. Devinney, 1375 California street, Oakland. Location, east Manila south of 38th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $9,000. Architect, William C. Hays, First National Bank Bldg., S. F. Owner, Dr. H. W. Weirick. Location, Claremont. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BURLINGAME, SAN MATEO CO., CAL.—Residence, 2 story and base, concrete and frame, $60,000. Architect, Charles E. Gottschalk, Phelan Bldg., S. F. Owner, Edward Christensen. Location near Burlingame. Designed for a country home and will contain fourteen rooms, several baths and conservatory. A number of outbuildings are also included in the plans. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water, hot water circulating system and vacuum cleaning. Bath rooms finished in tile. Open fire places and tile or brick mantels. A considerable amount of landscape work is also included. Exterior faced with cement plaster. Plans complete and figures to be called for shortly.

HOLLISTER, SAN BENITO CO., CAL.—Residence, 1 story and base, frame. Cost not stated. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, W. L. Hawkins. Location, near Hollister. Designed in the Spanish colonial style and will contain twelve rooms, three baths and sleeping porch. Built around an open patio. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior faced with cement plaster. Clay tile roof. Plans complete and work being done by Day Labor.

EXETER, TULARE CO., CAL.—Residence, 2 story and base, frame, $10,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owner, A. C. Dungan. Will contain twelve rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, A. A. Sadler, 1943 Fresno street, Fresno. Location, Arlington Heights. Will contain vve rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story and base, frame, $3,000. Architect, none. Owner, Fred Jones, Fresno. Location, east Fresno. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

GRANT, CONTRA COSTA CO., CAL.—Residences, 4, 1 story, frame, $1,500 to $1,600 each. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Each house will contain five rooms and bath. Interior finish pine and redwood. Open fire places and tile mantels. Exterior cement plaster and rustic. Plans being prepared and work to be done by Day Labor.

BEVERLEY HILLS, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $50,000. Architect, Edwin Bergstrom, Citizens' National Bank Bldg., L. A. Owner, M. H. Whittier. Will contain eighteen rooms and six baths. Interior finish pine, hardwood and white enamel. Bath rooms finished in tile and equipped with showers. Hardwood floors throughout. Central heating system, probably hot water, oil burning plant. Hot water circulating system. Open fire places and tile or brick mantels. Clay tile roof and cement plaster exterior. Plans being prepared.

OAK KNOLL, LOS ANGELES CO., CAL.—Residence, 2 story and base, frame and plaster. Cost not stated. Architect, Robert M. Taylor, Marsh-Strong Bldg., L. A. Owner's name not given. Will contain seventeen rooms and four baths, sleeping porches and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heat, oil burning plant and hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Roof clay tile. Plans being prepared.

SCHOOLS

SAN FRANCISCO—School fire escapes $16,000. Architect, City Dept. of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Plans for fire escapes for five San Francisco schools are being prepared in the Bureau of Architecture of the Board of Public Works. The following is a list of the schools, locations and the estimated cost of installing fire escapes on each building: Douglas School, 19th and Collingwood streets, $2,000; Fremont School, McAllister and Broderick streets, $3,000; Henry Durant School, Turk between Buchanan and Webster streets, $3,500; Monroe School, Excelsior avenue and London streets, $4,500; Crocker School, Page street between Baker and Broderick, $3,000. The Board of Public Works has requested the Supervisors to adopt an ordinance authorizing the construction of these fire escapes.

BULLARD, FRESNO CO., CAL.—School and cottages, frame construction, $10,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Bullard School District. Plans have been completed and figures are now being taken for a one-story frame school and school cottages. Bids will be opened on June 5th at 2 p. m. Plans and specifications can be secured from the architects.

ROUND VALLEY, INYO CO., CAL.—School, 1 story and base, reinforced concrete. Cost not stated. Architect's name not given. Owner, Round Valley School District. Will contain two class rooms and an assembly hall. Interior finish pine with maple floors. Stoves for heating. Exterior faced with cement plaster. Plans complete

and figures to be opened June 1 at 10:30 a. m. Plans on file at the City Market, Round Valley.

MORAGA, CONTRA COSTA CO., CAL.—School, 1 story, frame, $9,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Moraga School District. Will contain two class rooms, library, teachers' rooms and two open air class rooms. Interior finish pine. Stoves for heating. Exterior covered with cement plaster. Plans being prepared.

PITTSBURG, CONTRA COSTA CO., CAL.—School addition and alteration. Cost not stated. Architect, William Knowles, Central Bank Bldg., Oakland. Owners, Pittsburg School District. Bids will be received until May 31st at 2 p. m. for extensive alterations and additions to the present building. Plans may be secured from the architect.

NEWCASTLE, PLACER CO., CAL.—School, 1 story and base, frame and plaster. $13,572. Architect, Allen D. Fellows, East Auburn. Owners, Newcastle School District. The lowest bid received for the construction of the new school building was that of Liscom & Mountz, Newcastle, for $13,572, and they will probably be awarded the contract. A complete list of the bids will be found under the heading Sacramento and Northern California.

SAN DIMAS, LOS ANGELES CO., CAL.—School, 1 story and base, brick, $20,000. Architect, Norman F. Marsh, Broadway Central Bldg., L. A. Owners, San Dimas School District. Besides the class rooms, plans provide for manual training, domestic science and an auditorium. Interior finish uine. Maple floors in class rooms. Central heating system. Exterior faced with presed brick. Plans being prepared.

INGLEWOOD, LOS ANGELES CO., CAL.—School, 1 story and base, brick. Cost not stated. Architect, Norman F. Marsh, Broadway Central Bldg., L. A. Owners, Inglewood School District. The building will be in the nature of an addition to the present auditorium. Interior finish pine with maple floor. Central heating system extended from the present plant. Exterior faced with pressed brick. Plans complete and bids to be opened on June 2.

SAN BRUNO, SAN MATEO CO., CAL.—School, 1 story, frame. Cost not stated. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. Will contain two class rooms. Interior finish pine. Stoves for heating. Exterior covered with cement plaster. Plans complete and new figures being taken. Bids open on May 31st at 8 p. m.

BERKELEY, ALAMEDA CO., CAL.—School lighting fixtures. Cost not stated. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be opened on May 31st for lighting fixtures to be installed in the Benj. Ide Wheeler Hall. Plans can be secured from the Comptroller's office at Berkeley. An official proposal appears in this issue.

MILWAUKEE, ORE.—School, 1 story and base, brick, $20,000. Architects Claussen & Claussen, Macleay Bldg., Portland. Owners, Milwaukee School District. Will contain eight class rooms and auditorium. Interior finish pine with maple floors in the class rooms. Steam heat. Exterior faced with pressed brick. Plans being prepared.

BAKER CITY, ORE.—School, 2 story and base, brick and reinforced concrete, $125,000. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Baker City. Designed for a high school and will contain, besides the class rooms, science departments and manual training. A large auditorium is also provided. Interior finish pine with maple floors. Steam heat, oil burning furnaces and vacuum cleaning. Exterior faced with pressed brick. Plans complete and bids to be opened on June 12th.

Contracts Awarded

NORTH POWDER, ORE.—School, 2 story anad base, brick and concrete, $22,417. Architects, Tourtellotte & Hummel, Rothchild Bldg., Portland. Owners, North Powder School District. Contractor, G. H. Rush, La Grande. Contract price, $22,417.

SEATTLE, WASH.—School, 2 story and base, brick and concrete, $56,184. Architect, Edgar Blair, 901 7th avenue, Seattle. Owners, City of Seattle. Contractor, John Larson, 4103 Ainsworth avenue, Seattle. Contract price, $56,-184.

PASADENA, LOS ANGELES CO., CAL.—School, 2 story and base, brick, $20,000. Architect, John P. Lynch, 4265 South Normandie avenue, Pasadena. Owner, Roman Catholic Archbishop of Monterey. Contractor, J. V. McNeil, 530 Wesley Roberts Bldg., Pasadena. Contract price, $20,000.

BAKERSFIELD, KERN CO., CAL.—School, 1 story and base, brick and concrete, $21,600. Architect, O. L. Clarke, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Contractor, M. T. Kean, 2200 24th street, Bakersfield. Contract price, $21,600.

SEWERS, STREET WORK & WATER SYSTEMS

SAN FRANCISCO—Sewer construction. Cost not stated. Engineer, Constructing Quartermaster, Fort Mason Owners, United States Government. The Constructing Quartermaster's office at Fort Mason is preparing plans for a sewer and water system for the new officers' quarters to be erected at the Presidio.

OAKLAND, CAL.—Streets improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until June 1st at 12 noon for street improvements ordered under the following resolutions: That East 16th street, from the northwest line of Fruitvale avenue to the southeast boundary line of the City of Oakland, be graded, curbed with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also that two corrugated iron and concrete culverts, each having two branches, be constructed in East 16th street as follows: One, each, in the crossings of 27th avenue and 28th avenue; also that each of the four existing storm water inlets in East 16th street between Fruitvale avenue and 29th avenue, be replaced with a new brick storm water inlet with cast iron top.

OAKLAND, CAL. — Lighting posts. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on June 1st at 12 noon for constructing 48 lighting posts along Grove street, between 47th and 59th streets; also lighting posts to be constructed 10.3 feet east from the west line of West street and 52 feet south from the south line of 53rd street.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until noon on June 1st for street improvements under the following resolution: That East 12th street, from the southeast line of 13th avenue to the northwest line of 23rd avenue, be graded, curbed with concrete, guttered with brick gutters 14 inches wide and paved with asphalt; also for the installation of catchbasins, concrete culverts, brick manholes, corrugated culverts, 8-inch sewer, etc.

PALO ALTO, SANTA CLARA CO., CAL. — Subway, reinforced concrete. Cost not stated. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The Palo Alto City Council at its last meeting determined to go ahead with the building of the subway at Palo Alto avenue, the location that was originally fixed and for which all the preliminary steps have been taken.

SAN JOSE, SANTA CLARA CO., CAL.—Highway construction, $200,000. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. Plans and specifications prepared by Irving L. Ryder, County Surveyor, for 14 miles of county highways have been approved by the Board of Supervisors, and bids for the contracts on the four big jobs involved will be opened by the Board at a meeting on June 5th at 11 a. m. One job is from the city limits at the King road to the line of the city reservation of Alum Rock Park, a distance of about 4 miles. The roadway is to be 24 feet wide to Capitol avenue, about a third of the distance, and 18 feet wide the rest of the way to the reservation line. From the State highway near Sunnyvale to Saratoga, a distance of about 6 miles, is the work that will make the second and third jobs. The fourth job is on the Stevens Creek road, from Meridian corners to Cupertino, a distance of about 3⅛ miles. All of the last three jobs will be 18 feet wide. All four wil have a 3-foot shoulder. There will be a 4-inch base of hydraulic concrete, and a 1½-inch asphaltic concrete top. However, wherever the grade runs more than 5 per cent, there will be vitrified paving blocks. The whole job comprises slightly more than 1,523,000 square feet of surface to be paved. Plans may be had from the County Clerk.

SAN JOSE, SANTA CLARA CO., CAL.—Highway paving. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. County Engineer Ryder is preparing to submit to the Supervisors for approval plans and specifications for four jobs of concrete paving. The first is from Saratoga to Los Gatos, a distance of about 3 miles, and will finish the road from the State highway near Sunnyvale to Saratoga, was ordered recently. Another job covers Lincoln avenue from Minnesota avenue to the Almaden road, a distance of about 1½ miles. On McLaughlin avenue from William street to Auburn avenue, a distance of about 3 miles is another project; and from the State highway to the town of Campbell, a distance of about half a mile, is a fourth job. Fur-

ther mention will be made of this work.

LODI, SAN JOAQUIN CO., CAL.—Paving plant and equipment. Cost not stated. Engineer, City Engineer, Lodi Owners, City of Lodi. The bids for furnishing a paving plant for this city, which were opened at the last meeting of the City Council, were many and varied. Nine companies in all submitted bids, and as each one of these submitted a number of propositions, it will require considerable study before the most attractive ones can be chosen The Council decided to take ten days before deciding definitely, and May 25th was the date set for the final decision.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Bakersfield. Owners, Kern County. At the last meeting of the County Supervisors plans and specifications for the construction of the Bakersfield-Mojave road were accepted and bids will be received for said construction up to 10:30 a. m. June 8th. Plans may be had from the County Engineer at Bakersfield.

BAKERSFIELD, KERN CO., CAL.—Sewer pumping plant. Cost not stated Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. At the last meeting of the City Council City Engineer Ray was authorized to draw plans and specifications for installation of the pump and motor at the Myrtle sewer pumping station.

PETALUMA, SONOMA CO., CAL.—Creek improvement. Cost not stated. Engineer, City Engineer, Petaluma Owners, City of Petaluma. At the last meeting of the City Council the City Engineer was ordered to prepare plans and specifications for the improvement of Thompson Creek.

PETALUMA, SONOMA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Petaluma Owners, City of Petaluma. At the last meeting of the City Council the City Engineer was instructed to prepare plans and specifications for the improvement of Payran and Ellis streets in East Petaluma. On resolution by Councilman McCargar, the City Engineer was ordered to prepare plans and specifications for the curbing and guttering of East Washington street Plans were also ordered for the sewer in Cherry Valley.

ARCADIA, LOS ANGELES CO., CAL.—Road building machinery. Cost not stated. Engineer, City Engineer, Arcadia. Owners, City of Arcadia. Bids will be received until June 1st at 8 p. m. for furnishing road building machinery as follows: One 12 to 15-ton gasoline roller; one scarifier, one light road grader, and one street sweeper Bids will be received on each item as well as a combined amount of all items. Each bid must be accompanied by detailed specifications covering each item and a certified check for 5 per cent George E. Grimes is the City Clerk.

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. Bids will be received until June 6th at 10 a. m. for paving that part of Higuera street extending from the south boundary line of the city to the northerly line of Nipomo street therein, a distance of 5,683.3 feet more or less, and the installation of three concrete culverts, with the necessary grading and excavation to complete the same.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer. Santa Barbara. Owners, City of Santa Barbara. Bids will be received until 12 noon on June 1st for: First—To construct an 8-inch vitrified pipe sewer in Gutierrez street, from an existing manhole at Garden street to a manhole to be constructed in Laguna street. Second—To construct a 6-inch vitrified pipe sewer in Rose avenue, from a manhole to be constructed in Gutierrez street to a manhole to be constructed in Rose avenue 328 feet northwest therefrom. Third—To construct an 8-inch vitrified pipe sewer in Laguna street, from a manhole to be constructed in Gutierrez street to a flushing manhole to be constructed 295 feet northwest therefrom. Together with manholes, flushing manholes, and all appurtenances for the construction operation and completion of said sewers

SACRAMENTO, CAL. — Street and sewer construction. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 1st at 11 a. m. for street and sewer work ordered under the following resolutions: That 15th street, from the south line of B street to the north line of G street (except the intersections of C, D, E, and F, streets with 15th street) be improved by removing and disposing of basalt block gutters and all other surplus and refuse material: construct concrete curb on official line and grade; construct concrete gutter on official line and grade where concrete gutter does not exist; placing six cast iron gutter drains with 6-inch vitrified, ironstone sewer pipe elbows attached; construct three concrete manholes, complete with cast iron curbs and covers; reconstruct three concrete catchbasins by placing same to official grade; construct 6 and 8-inch vitrified, ironstone sewer pipe drains; placing 174 linear feet of concrete protective covering over sewer pipe.

SACRAMENTO, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 1st at 11 a. m. for street improvements ordered under the following resolutions: That 30th St., from the north line of Y street to the Lower stockton road (except the intersections of 30th and Orange avenue, 30th and Magnolia and 30th and Madrone) be improved by removing and disposing of one 20 by 32-foot wooden bridge at the intersection of 30th and Y streets, and all other surplus and refuse material: construct concrete curb on official line and grade; construct concrete gutter on official line and grade; construct cast iron gutter drains with 6-inch vitrified, ironstone sewer pipe elbows attached; construct concrete manholes, complete, with cast iron curbs and covers; reconstruct four concrete manholes by placing same to official grade; construct 6 and 8-inch vitrified, ironstone sewer pipe drains; grade the roadway from the north line of Y street to a point 40 feet south of the south line of Cypress avenue, and construct thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches thick.

STOCKTON, SAN JOAQUIN CO., CAL. Sewer construction, $3,205. Engineer, City Engineer, Stockton. Owners, City of Stockton Plans and specifications prepared by the City Engineer for sanitary sewers in North El Dorado street from the center line of Sonoma avenue to the center line of Wyandotte street, will be approved by the City Council at their next meeting and a call for bids will be issued at that time. Further mention will be made of this work when bids are called for.

STOCKTON, SAN JOAQUIN CO., CAL.—Street paving, $12,398. Engineer, City Engineer Compton, Seockton. Stockton. Owners, City of Stockton. Because of the lack of funds the city will not pave all of Miner avenue this year. Plans and specifications have been filed with the City Council for the paving of the strip to be done at this time and will be approved by the Council at the next meeting. Further mention will be made of this work when bids are called.

BAKERSFIELD, KERN CO., CAL.—street paving. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. In response to a petition presented to the City Council, the City Engineer was directed to prepare plans and specifications for the paving of 17th street from Oak to Union avenue. The City Engineer was also instructed to prepare the necessary plans and specifications to grade, roll and tamp all the streets east of Union and north of the Southern Pacific tracks.

BAKERSFIELD, KERN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. After awarding a contract to Fred Nighbert, 817 1 street, Bakersfield, the City Council, after further consideration, withdrew the award for grading and tamping in Districts No. 24, 25, and 26, as the work was protested.

NAPA, NAPA CO., CAL.—Street improvement. Cost not stated. Engineer. Town Engineer, Napa. Owners, Town of Napa. Bids will be received on May 29th at 7:30 p. m. for work authorized under the following resolution: That the roadway on Laurel street from the west line of Grant avenue to the east line of Even street, except the intersections of Union and Laurel streets and Franklin and Laurel streets, be graded and that cement concrete curbs be constructed on both sides of said roadway between said limits. Also that the roadway be paved with two-course asphalt macadam, consisting of crushed rock 6 inches in depth after its final rolling, and asphaltum with a penetration between 101 and 150 degrees District of Columbia standard.

SALINAS, MONTEREY CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Salinas. Owners, City of Salinas. The City Engineer has been instructed by the City Council to prepare plans and specifications for the improvement of three streets with waste rock and redwood curbing. The streets are Geil streets, from South Main to Iverson street; North Riker street, from Central avenue to South Park street, and Capitol street to the east line of Homestead avenue Bids will be called for on completion of the plans.

SALINAS, MONTEREY CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Salinas Owners, City of Salinas. The City Council has ordered bids received up to June 1st for the improvement of East Gabilan street from Monterey to California street. Plans for this work may be had from the City Engineer or City Clerk at Salinas.

BERKELEY, ALAMEDA CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received up to May 26th at 10 a. m. for furnishing the necessary materials, tools and labor for the construction of a combined sewer, manholes and appurtenances in Hearst avenue from Shattuck avenue to Oxford street in the City of Berkeley.

HANFORD, KINGS CO., CAL.—Road machinery. Cost not stated. Engineer, County Clerk, Hanford. Owners, Kings County. Bids will be received by the Board of Supervisors up to 10:30 a. m. of June 5th, for furnishing the county one traction engine, or caterpillar, with at least 22 H. P. draw-bar pull, for road working purposes. Also, bids will be received by the Board up to 10:35 a. m. of June 5th for furnishing the county one M. Haynes Universal road machine for road working purposes. E. F. Pickerill is the ex-officio Clerk of the Board.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Bids will be received on May 29th at 5 p. m. for street improvements ordered under the following resolutions: That 24th St., from the west line of G street to the west line of Chester avenue; 25th street, from the east line of G street to the west line of Chester avenue; 26th street, from the east line of G street to the west line of Chester avenue; 27th street, from the east line of G street to the west line of Chester avenue; 28th street, from the east line of H street to the west line of Chester avenue; G street, from the north line of 24th street to the onrth line of 28th street; I street, from the north line of 28th street to the south line of 29th street, together with all the intersections of streets and alleys, be graded, tamped and rolled.

SONOMA, SONOMA CO., CAL.—Street improvement Cost not stated. Engineer, City Engineer, Sonoma. Owners, City of Sonoma. Bids will be received until June 2 at 8 p. m. to furnish all tools, implements, labor and material and build and construct a one-course concrete pavement on Napa street, between 1st street east and 1st street west, 570 feet more or less. City will furnish the roller and roll subgrade.

Contracts Awarded

SAN FRANCISCO—Street improvement, $7,488. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Flinn & Treacy, First National Bank Bldg., S. F. Contract price, $7,488.

OAKLAND, CAL. — Subway, reinforced concrete, $19,388. Engineer, County Surveyor, Oakland. Owners, Alameda County. Contractors, Tieslau Bros., 110 Jessie street, S. F. Contract price, $19,388.

PALO ALTO, SANTA CLARA CO., CAL.—Street paving, $142,679. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. Contractors, Paul & Caldwell, Stockton. Contract price, $142,679.

REDWOOD CITY, SAN MATEO Co., CAL.—Sidewalks, etc. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. Contractor, Howard Dam, Redwood City. Contract price not stated.

REDWOOD CITY, SAN MATEO CO., CAL.—Oiling roads. Cost as follows. Engineer, County Surveyor, Redwood City. Owners, San Mateo County. Contractors, Blanchard-Brown Co., 660 Market street, S. F. Contract price, $0.166 per square yard.

SALINAS, MONTEREY CO., CAL.—Street paving, $8,846.91. Engineer, City Engineer, Salinas. Owners, City of Salinas. Contractor, W. A. Dontanville, Salinas. Contract price, $8,846.91.

OAKDALE, STANISLAUS CO., CAL.—Paving, $10,625.20. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract price, $10,625.20.

BAKERSFIELD, KERN CO., CAL.—Culverts, grading and paving, $65,030.98. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractors, W. C. Price & Co., Bakersfield. Contract price, $65,030.98.

BAKERSFIELD, KERN CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, F. W. Nighbert, 817 I street, Bekersfield. Contract price not stated.

STORES AND OFFICES

SAN FRANCISCO—Market, 1 story and base, frame, $4,000. Architect, none. Owners, Stockholm & Allyn, Monadnock Bldg., S. F. Location, north Ellis west of Fillmore, covering an area of 50 by 137½ feet. Will contain a large market. Interior finish pine and tile. Patent store fronts. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Offices, 6 to 8 story and base. Class A construction. Cost not stated. Architect not selected. Owners, John A. Hooper Lumber Co., 110 Market street, S. F. The John A. Hooper Lumber Co. has purchased a lot on the west side of Battery street between Pine and California and will improve the same with a Class C store and loft building of from four to six stories. Selection of an architect will be made in the course of ten days.

SAN FRANCISCO—Offices, 2 story and base. Class A construction. Cost not stated. Engineers, Heller & Wilson, Mechanics' Institute Bldg., S. F. Owner, David Sacks. Location, east Sansome between Pine and California. A large portion of the building has been leased to the Phoenix Assurance Co. The balance will be arranged for offices. Interior finish pine and hardwood. Steam heat and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Offices, 10 story and base. Class A construction. Cost not stated. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Southern Pacific Co. Location, Market, between Steuart and Spear streets. The first permit for the construction of the new Southern Pacific building to be erected on the south side of Market street from Steuart to Spear street, has been applied or at the office of the Board of Public Works. The building will be a ten-story and basement Class A structure. The steel and foundation work is estimated to cost $200,000. Following the awarding of these contracts, plans will be put out for figures on various other parts of the work.

THEATRES

LOS ANGELES, CAL.—Theatre, 9 story and base. Class A construction. $600,000 to $700,000. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Business Stability Association. Location, southwest Broadway and 3rd street, covering an area of 120 by 199 feet. It will contain a theatre auditorium with a seating capacity of 3,000 people, 125 studio suites, and several small meeting rooms in the upper floors and 13 store rooms on the ground floor. Reinforced concrete structural frame, marble, tile, ornamental terra cotta exterior finish, plate glass windows, marble and tile flooring, mahogany interior trim, sound-deadening walls, double doors, metal frames, wire glass, three passenger elevators, steam heating, vacuum cleaning, composition roof, staff ornamentation and sprinkler system. A local theatrical man has taken a lease on the theatre portion of the building. The owners of the property are Charles D. and Fred Stimson of Seattle, from the property has been leased for a long term of years by the syndicate.

SEALED PROPOSALS

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Hermiston, Ore., until **2 o'clock p. m. June 15, 1916,** for canal enlargement, Umatilla project. The work consists of widening about 20 miles of canal and involves the excavation of about 168,000 cubic yards of material and the placing of about 370 cubic yards of concrete. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Hermiston, Ore. A P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Malta, Mont., until **2 o'clock p. m. June 22, 1916,** for earthwork and structures, Bowdoin Canal, Milk River project, involving about 134,000 cubic yards of excavation, 220 cubic yards of reinforced concrete, 450 square yards of paving, the placing of 14,000 pounds of reinforcement steel and the placing in wooden structures of about 50,000 feet, b. m. of lumber. The work is located about 15 miles east of Malta, Mont., near Bowdoin Station on the Great Northern Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR ALASKA RAILROAD SUPPLIES.

ALASKA CIRCULAR 179—Office of the Purchasing Agent, Alaskan Engineering Commission, Seattle, Wash.—Sealed proposals will be received here until **11 a. m. May 22, 1916** ....

NOTICE TO CONTRACTORS.

INVITING SEALED PROPOSALS for the erection of a school building in the San Bruno Park School District, County of San Mateo, State of California.

Notice is hereby given that the undersigned trustees of the San Bruno Park School District, County of San Mateo, State of California, will receive sealed bids at the San Bruno School House, San Bruno, County of San Mateo, California, for the erection, completion and plumbing (separate contract) of a school building in said district up to the hour of **eight (8) o'clock p. m. on Wednesday, the thirty-first day of May, 1916,** at which said time and place said bids will be publicly opened.

All bids must be addressed to Mr. H. Spalding, Clerk of the San Bruno Park School District, San Mateo County, California, and must be accompanied by a certified check on some reliable bank in the State of California, made payable to the order of aforesaid Clerk of said Board of School Trustees, in amount equal to at least ten (10) per cent of the bid so submitted, and no proposal will be considered by said Board unless accompanied by such check.

The said check to be forfeited to said San Bruno Park School District, as ascertained and liquidated damages in case the successful bidder fails or refuses to enter into a contract to perform the work, and give the bonds hereinafter required, within ten days after the date of the award.

Said building is to be erected in the City of San Bruno, County of San Mateo, State of California, and is to be a one (1) story, four (4) class room school building.

The plans and specifications for said building may be obtained from Edwards & Norberg, architects, Bank Building, Burlingame, San Mateo County, California.

Said building must be erected according to said plans and specifications and completed in eighty (80) working days from the date of the execution of the contract.

The bidder to whom the contract is awarded will be required at the time of the execution of the contract, and as a condition of the contract, and as a condition to the acceptance of his bid, to execute and file a good and sufficient bond, executed by a surety company, or by two responsible sureties to be approved by the said Board of Trustees of said district, to secure the faithful performance of the contract, in an amount of not less than twenty-five (25) per cent of the contract price, and an additional bond in amount of not less than fifty (50) per cent of the total amount payable under the terms of the contract, to secure the payment of claims for any material, or supplies of labor, of any kind whatsoever used in the construction of the said building to be constructed under the said contract.

The said Board of Trustees expressly reserves the right to reject any and all bids.

Done by order of the Board of Trustees of the San Bruno Park School District, County of San Mateo, State of California.

PETER BOLLIGER,
JOSEPH A. CUNNINGHAM,
Trustees.

HENRY SPALDING,
Clerk of the Board of Trustees.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, University of California, Berkeley, California, **at or before 9 A. M., Wednesday, May 31st, for the Lighting Fixtures for Benjamin Ide Wheeler Hall and the University Library,** as per plans and specifications on file and obtainable after 9 A. M., Wednesday, May 17, at the Cashier's Window in said office.

A deposit of $50.00 will be required for each set of plans and specifications taken out, which deposit will be refunded upon the return of said plans and specifications, accompanied by a regular bid for the work. No bids will be received unless accompanied by a certified check or bond in favor of the undersigned, equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

PROPOSALS FOR RECLAMATION WORK.

CONSTRUCTION WORK, NO. 3235—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until **June 15, 1916,** for construction, involving about 70,000 cubic yards of canal excavation, 11,000 cubic yards of rolled embankment, 3,500 cubic yards of excavation for structures, 1,500 cubic yards of reinforced concrete, and 700,000 square feet of canal lining. Further information may be obtained on application to the United States Reclamation Service, Washington, D. C., Denver, Colo., or Provo, Utah.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 15, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M. June 21, 1916,** for the construction complete of the United States post office and customhouse at Douglas, Ariz. Drawings and specifications may be obtained from the custodian of site at Douglas, Ariz., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

NOTICE TO BIDDERS.

PURSUANT to an order of the Board of Supervisors of the County of Stanislaus, State of California, made and entered on the 10th day of May, 1916, notice is hereby given that sealed bids will be received by the undersigned Clerk of the said Board up to and not later than the hour of **2 p. m. of the 13th day of June, 1916,** for the construction of a reinforced concrete bridge over the Tuolumne River, near the City of Modesto, Stanislaus County, California, in accordance with the plans and specifications on file in my office, where the same can be inspected by intending bidders during office hours.

All bids must be accompanied by a certified check on some solvent bank of the State of California, in a sum equal to ten per cent of the amount bid, conditioned that the successful bidder will enter into such contract and furnish such bond as may be required within ten days after such award or failing so to do will forfeit the amount of such check as liquidated damages for such failure.

Bids to be submitted on special forms, which can be obtained from the County Clerk.

The Board reserves the right to reject any or all bids.

H. BENSON,
Clerk of the Board of Supervisors of the County of Stanislaus, State of California.

PROPOSALS FOR BOILERS.

TREASURY DEPARTMENT, Office of the Supervising Superintendent of Construction, Room 402, U. S. Post Office Building, San Francisco, Cal.—Sealed proposals will be received at this office until **12 o'clock m., on June 12, 1916,** and then publicly opened, for repairs to heating plant (installation of new boilers) at the U. S. Marine Hospital Station, San Francisco, Cal., in accordance with the drawing and specification, copies of which may be had upon application at this office or the office of the Custodian of the Station. J. W. ROBERTS, Supervising Superintendent.

BUILDING OPPORTUNITY.

Coachella Chamber of Commerce reports an opening for the building of from six to eight houses at a cost of $1000 each on lots costing $175 to $200. These can be readily rented at from $15 to $17 per month.

FAST ELECTRIC TRAINS to Sacramento

LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

SEWER CONSTRUCTION—Cost not stated. San Francisco. Engineer, Constructing Quartermaster, Fort Mason. Owners, United States Government. The Constructing Quartermaster's office at Fort Mason is preparing plans for a sewer and water system for the new officer's quarters to be erected at the Presidio.

RESIDENCE — 2 story and base, frame. Cost not stated. San Francisco. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner's name withheld. Location, Presidio Terrace. Will contain eight rooms, two baths and sleeping porch. A basement garage will also be provided. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures to be taken at once.

RESIDENCES—6. 1 story and base, frame, $2,000 each. San Francisco. Architect, none. Owner, Charles E. Reinhart, 17th and Kansas streets, S. F. Location, Wisconsin, 20th and Arkansas streets. Each dwelling will contain five rooms and bath. Interiors finished in pine and redwood. Some hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owner, A. V. Anderson, 1604 10th avenue, S. F. Location, west 18th avenue south of Balboa. Each house will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Surnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

RESIDENCES—5, 2 story and base, frame, $2,500 each. San Francisco. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Locations, 27th and 28th avenues south of Irving. Each dwelling will contain six rooms and bath. Interiors finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $12,000. San Francisco. Architect, George William Kelham, Sharon Bldg., S. F. Owner, Mrs. George William Kelham. Location, Sea Cliff. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish hardwood and white enamel. Hardwood floors. Central heating system and hot water circulating system. Bath rooms tile and equipped with showers. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—6 story and base. Class C construction, $60,000. Architect, W. G. Hind, associated with Clyde S. Payne, Jr., 46 Kearny street, S. F. Owner, Dr. Clyde S. Payne. Location, south Bush 166 feet east of Jones, covering an area of 54½ by 137½ feet. Will contain a total of 35 modern apartments of two rooms and bath, a large lobby, roof garden and social rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, automatic elevator, oil burning equipment and hot water supply. Bath rooms finished in tile and equipped with showers. Marble and tile wainscot in the vestibule. Imported tapestries. Exterior faced with granite and pressed brick. Plans complete and segregated figures being taken.

APARTMENT HOUSE—10 story and base. Class A construction, $50,000 to $750,000. San Francisco. Architects, Charles Paff & Co., 345 Sansome street, S. F. Owners, Gothic Corporation. Location, southwest Mason and Sutter streets, covering an area of 137½ feet by 120 feet. The building is so planned that every room in every apartment will receive the sun a portion of the day, the main area and the roof forming the solariums which are wholly protected from the prevailing cold winds. The building will be a steel frame construction, with reinforced concrete floors and walls and fireproof. The Mason and Sutter street fronts faced with architectural "mat-glazed" ivory white terra cotta. The balance of all exterior walls are white enameled cement finish. The machinery or sub-basement will be 40 by 137½ feet and will contain the heating plant, the electric and pneumatic cleaning machinery and exhaust fans with an entrance on Mason street. The basement will be 100 by 137½ and will contain the men's and women's salt water natatoriums, steam hot and massage rooms, dressing and shower rooms and a garage with entrance on Mason street. The mezzanine basement will occupy the entire area of lot and contain the service delivery room, store rooms for each apartment, the living rooms for the male employees and the bowling alleys, with an entrance on Mason street. The first to the tenth floors, inclusive, with the entrance on Sutter street, will be arranged in five, six and ten-room apartments with finish as desired by individual owners. On the roof two billiard and two ball rooms will be provided, as well as two tennis courts and the roof gardens. The elevator service will comprise two fast passenger elevators and six full automatic service elevators. The finish of the main vestibule and lobby will be in "Portola" Columbia and black and white Belgian marble, with "Faience" tile floor and wainscot insers, and ornamental plaster cornices and ceilings. The corridor floors and the wainscot will be of "Magnalith," the same as for the floors and wainscot of the kitchens, pantries and service elevator lobbies. All corridors and the main lobby will Axminster runners and rugs and the walls and ceilings will be decoratively stenciled in oil paints. The halls and the three main rooms of each apartment will have parquet floors. The hallways and all other rooms will have hard pine floors. The bath rooms will have Encaustic tile floors and enameled tile wainscot. The wood finish of hall and main rooms of each apartment will be in hardwood, all natural finished, with all the balance in selected pine, enameled white finish. Each apartment will be provided with every known fixture of convenience, including wall beds. All the partitions will be constructed of metal studs and plaster. The hall and the three main rooms of each apartment will have ornamental plaster cornices and decorated ceilings. All walls will be papered with decorative paper, and the paster walls and ceilings of kitchens, bath rooms and pantries will be in enamel finish. In the natatorium, the swimming tanks will be lined with white enameled vitreous brick and glazed terra cotta life rails, marble floors and wainscot. Marble walls and divisions will be used in the shower rooms, tile floors and wainscot in the massage and hot rooms, and tile floors, walls and ceilings in the steam rooms and the entries thereto. The plaster walls and ceilings in these departments will be in white enamel finish. All the glazing throughout the building will be of clear and wire plate glass. The skylights will be glazed with rough wire glass and the large ceiling lights over swimming tanks with art glass. All plumbing fixtures and hardware will be of the best quality and highest grade. The architect states that working drawings will not be ready for figures for at least six months.

APARTMENT HOUSE—6 story and base. Class A construction, $300,000. San Francisco. Architects, Willis Polk & Co., Hobart Bldg., S. F. Owners, Selah Chamberlain and John W. Proctor. Location, California between Mason and Taylor, covering an area of 105 by 137½ feet. Construction fireproof with complete steel frame. Will contain 20 apartments ranging from five to twelve rooms. Interiors finished to suit tenants who will be required to take long-term leases. Complete mechanical equipment including steam heat, oil burning equipment, hot water supply, elevator service and vacuum cleaning. Swimming pools and completely equipped gymnasiums. Exterior faced with pressed brick and terra cotta. Plans being prepared.

RESIDENCE — 1 story and base, frame, $4,000. San Francisco. Architect, Joseph A. Leonard, 85 Cerritos avenue, S. F. Owners, Urban Realty Co. Location, east Urbano Drive north

of Victoria. Will contain eight rooms, two baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Open fire places and tile or brick mantels. Furnace heat and hot water system. Exterior covered with cement plaster and brick veneer. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,500. San Francisco. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and sleeping porch. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic, shiplap and brick veneer. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. San Francisco. Architect, G. H. Old, 1512 Castro street, S. F. Owner, C. G. Bemis, 2056 Mission street, S. F. Location, west Arlington avenue north of Mateo. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors in two rooms. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated San Francisco. Architects, Bliss & Faville, Balboa Bldg., S. F. Owner, Abraham Rosenberg. Location, Jackson near Spruce. Will contain twelve rooms, two baths and a basement garage. Interior finish pine, white enamel and hardwood. Hardwood floors throughout. Bath rooms finished in tile. Central heating system, probably hot water, hot water circulating system. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCES—3, 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, Fernando Nelson, 2701 Lincoln Way, S. F. Location, west 28th avenue north of Irving. Each house will contain five rooms and bath. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile and brick mantels. Some tile in bath rooms. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, W. G. Gilmour. Location, west Edgwood avenue south of Sunset. Will contain nine rooms, two baths and basement garage. Sun porches. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Fuprnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owner, Ernest E. Dunn, 329 23rd avenue, S. F. Location, east 24th avenue north of Anza. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

WAREHOUSE AND OFFICE—6 story and base, reinforced concrete, $250,000. San Francisco. Engineers, MacDonald & Kahn, Rialto Bldg., S. F. Owners, Zellerbach Paper Co. Location, Montgomery and Francisco streets. Construction will be started at once. Concrete pile foundation. The designers will act as contractors also and will sublet much of the work.

OFFICERS' QUARTERS—12, 2 story, tile, brick or concrete. Cost not stated. San Francisco. Architect, Constructing Quartermaster's office, Fort Mason. Owners, United States Government. Over fifty sets of figures were received by the Constructing Quartermaster on May 18th for the erection of these buildings. A complete list of the bids received will be found under the heading of San Francisco in this issue.

HOTEL—3 story and base. Class C construction, $25,000. San Francisco. Architect, Bert Christensen, S. F. Owner, Bernard Davidow, 46 Kearny street, S. F. Location, third near Townsend street. Will contain stores on the first floor and a number of single rooms on the upper floors. Interior finish pine and redwood. Steam heat and a hot water supply. Patent store fronts. Exterior faced with pressed brick. Plans complete and figures being taken.

HOSPITAL WARD AND DISPENSARY—2, 2 story, reinforced concrete, $45,000. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, Letterman General Hospital, Presidio of San Francisco. Plans have been officially approved for the construction of a two-story building to replace Ward J, 180 by 20 feet, and for a new dispensary building 99 by 46 feet. Construction will be fireproof. Exterior faced with cement plaster, clay tile roof. Steam heat from central plant. Interior finish pine, hardwood, tile and white enamel. Bids will be called for shortly.

POST OFFICE—1 story and base, brick and stone. Cost not stated. Douglas, Ariz. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Plans have been completed and bids will be received up to June 21st for the construction, complete, of the new Federal building. Plans and specifications can be secured from the Custodian of the site at Douglas or from the Supervising Architect at Washington, D. C. An official proposal appears in another column of this issue.

SCHOOL FIRE ESCAPES — $16,000. San Francisco. Architect, City Dept. of Architecture, City Hall, S. F. Owners, City and County of San Francisco. Plans for fire escapes for five San Francisco schools are being prepared in the Bureau of Architecture of the Board of Public Works. The following is a list of the schools, locations and the estimated cost of installing fire escapes on each building. Douglas School, 19th and Collingwood streets, $2,000; Fremont School, McAllister and Broderick streets, $3,000; Henry Durant School, Turk between Buchanan and Webster streets, $3,500 Monroe School, Excelsior avenue and London street, $1,500; Crocker School, Page street between Baker and Broderick, $3,000. The Board of Public Works has requested the Supervisors to adopt an ordinance authorizing the construction of these fire escapes.

MARKET—1 story and base, frame, $4,000. San Francisco. Architect, none. Owners, Stockholm & Allyn, Monadnock Bldg., S. F. Location, north Ellis west of Fillmore, covering an area of 50 by 137½ feet. Will contain a large market. Interior finish pine and tile. Patent store fronts. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

OFFICES—6 to 8 story and base. Class A construction. Cost not stated. San Francisco. Architect not selected. Owners, John A. Hooper Lumber Co., 110 Market street, S. F. The John A. Hooper Lumber Co. has purchased a lot on the west side of Battery street between Pine and California and will improve the same with a Class C store and loft building of from four to six stories. Selection of an architect will be made in the course of ten days.

OFFICES—2 story and base. Class A construction. Cost not stated. San Francisco. Engineers, Heller & Wilson, Mechanics' Institute Bldg., S. F. Owner, David Sacks. Location, east Sansome between Pine and California. A large portion of the building has been leased to the Phoenix Assurance Co. The balance will be arranged for offices. Interior finish pine and hardwood. Steam heat and hot water system. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

OFFICES—10 story and base. Class A construction. Cost not stated. San Francisco. Architects, Bliss & Faville, Balboa Bldg., S. F. Owners, Southern Pacific Co. Location, Market between Steuart and Spear streets. The first permit for the construction of the new Southern Pacific building to be erected on the south side of Market street from Steuart to Spear street has been applied for at the office of the Board of Public Works. The building will be a ten-story and basement Class A structure. The steel and foundation work is estimated to cost $200,000. Following the awarding of these contracts, plans will be put out for figures on various other parts of the work.

Contracts Awarded

PIER ALTERATIONS—$22,133. San Francisco. Engineer, Assistant State Engineer, Ferry Bldg., S. F. Owners, State of California. Contractors, Healy-Tibbitts Construction Co., 9 Main street, S. F. Contract price, $22,133. A complete list of the bids received for this work will be found under the heading of San Francisco in this issue.

STREET IMPROVEMENT — $7,188. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Contractors, Flinn & Treacy, First National Bank Bldg., S. F. Contract price, $7,488.

Bids Received For Harbor Work.

Healy-Tibbitts Construction Company Awarded Contract For Alterations to Pier No. 38.

The following figures were received by the State Board of Harbor Commissioners on May 18th for constructing alterations and additions to Pier No. 38. Healy-Tibbitts Constr. Co. presented the low bid at $22,133 and was awarded the contract.

A complete list of the bids received follows:

Alterations to Pier No. 38.

Healy-Tibbitts Constr. Co.	$22,133
San Francisco Bridge Co.	22,278
Tibbitts Pacific Co.	23,790
Thomson Bridge Co.	27,367

Complete Figures For Work At Presidio.

Over Fifty Sets of Figures Received For Twelve Buildings to be Erected for Officers' Quarters.

A large number of figures were opened Thursday morning, May 18th, by Constructing Quartermaster Col. Geo. McK. Williamson at Fort Mason for the construction of four field officers quarters and eight double sets of officers' quarters which are to be erected at the Presidio of San Francisco. Bids were taken for the construction of either hollow tile, brick or reinforced concrete and for the four sets and eight double sets separately. Separate bids were also received for the heating and ventilating, plumbing and electric work.

Proposition No. 1 called for constructing the four sets in tile. Proposition No. 2 for the same buildings in brick. Proposition No. 3 for the eight double sets in tile. Proposition No. 4 the same in brick. Proposition No. 7 for the four sets in reinforced concrete and Proposition No. 8 for the eight double sets in reinforced concrete. Following is a complete list of the bids received:

Officers' Quarters, Presidio.

MacDonald & Kahn, Prop. 7, $35,000; Prop. 8, $88,000.

Hansbrough & Johnson, Prop. 1, $24,424; Prop. 2, $23,908; Prop. 3, $67,000; Prop. 4, $69,864; Prop. 7, $23,572; Prop. 8, $68,296.

Robert Trost, Prop. 1, $31,348; Prop. 2, $28,976; Prop. 3, $84,111; Prop. 4, $82,760; Prop. 7, $25,367; Prop. 8, $74,367.

Harvey A. Klyce, Prop. 1, $27,611; Prop. 2, $28,216; Prop. 3, $78,550; Prop. 4, $82,291; Prop. 7, $27,145; Prop. 8, $79,227.

M. Fisher, Prop. 1, $25,160; Prop. 2, $28,160; Prop. 3, $79,800; Prop. 4, $85,890

V. Filippis, Prop. 7, $29,200.

C. L. Wold Co., Prop. 1, $23,596; Prop. 3, $76,086.

Lindgren & Co., Prop. 1, $28,884; Prop. 2, $28,181; Prop. 3, $66,070; Prop. 4, $84,770; Prop. 7, $29,281; Prop. 8, $89,977.

Anderson & Ringrose, Prop. 1, $29,730; Prop. 2, $33,300; Prop. 3, $95,400; Prop. 4, $92,800; Prop. 7, $29,006; Prop. 8, $95,000.

McLeran & Peterson, Prop. 1, $23,324; Prop. 2, $24,124; Prop. 3, $69,284; Prop. 4, $73,284.

Howard S. Williams, Prop. 1, $23,626; Prop. 2, $27,534; Prop. 3, $71,677; Prop. 4, $81,043; Prop. 7, $23,819; Prop. 8, $71,848.

Neil A. McLean, Prop. 1, $24,898; Prop. 2, $25,578; Prop. 3, $75,224; Prop. 4, $82,320; Prop. 7, $26,700; Prop. 8, $82,864.

Pringle, Dunn & Co., Prop. 1, $24,992; Prop. 2, $25,801; Prop. 3, $76,383; Prop. 4, $73,163; Prop. 7, $26,056; Prop. 8, $77,888.

W. D. Henderson, Prop. 1, $24,792; Prop. 2, $26,632; Prop. 3, $73,136; Prop. 4, $76,896, Prop. 7, $24,444; Prop. 8, $71,368.

Fred L. Hansen, Prop. 7, $29,000; Prop. 8, $86,000.

Newsom & Hemming, Prop. 1, $21,480; Prop. 2, $23,040; Prop. 3, $67,104; Prop. 4, $68,312.

Ehrhart Constr. Co., Prop. 1, $25,200; Prop. 3, $74,900.

George A. Bos, Prop. 2, $26,784; Prop. 4, $80,700; Prop. 7, $27,980; Prop. 8, $83,654.

Campbell Bldg. Co., Salt Lake City, Prop. 1, $24,200; Prop. 2, $27,400; Prop. 3, $68,100; Prop. 4, $69,900; Prop. 7, $26,200; Prop. 8, $74,537.

James Furlong, Prop. 1, $27,000; Prop. 2, $27,564; Prop. 3, $81,200; Prop. 4, $84,400; Prop. 7, $28,720; Prop. 8, $88,160.

H. C. Mathies, Prop. 1, $26,690; Prop. 2, $28,690; Prop. 3, $79,690; Prop. 4, $84,460; Prop. 7, $25,990; Prop. 8, $79,990.

J. Collins, Prop. 1, $26,368; Prop. 2, $27,568; Prop. 3, $78,472; Prop. 4, $80,472; Prop. 7, $27,568; Prop. 8, $80,472.

Masow & Morrison, Prop. 1, $21,390; Prop. 2, $23,870; Prop. 3, $64,960; Prop. 4 $72,875, Prop. 7, $22,634; Prop. 8, $67,540.

Mahoney Bros., Prop. 7, $19,879; Prop. 8, $64,021.

Ward & Goodwin, Prop. 1, $25,900; Prop. 2, $27,900; Prop. 3, $67,000; Prop. 4, $78,200; Prop. 7, $25,900; Prop. 8, $78,900.

Elmer Carlson, Prop. 1, $26,080; Prop. 2, $27,620; Prop. 3, $73,600; Prop. 4, $84,400; Prop. 7, $25,360, Prop. 8, $72,520.

Alfred Kahn, Prop. 1, $25,136; Prop. 2, $27,816; Prop. 3, $74,224; Prop. 4, $83,184; Prop. 7, $24,752; Prop. 8, $75,992.

Sound Constr. & Eng. Co., Prop. 1, $24,112; Prop .2, $26,896; Prop. 3, $69,794; Prop. 4, $77,088; Prop. 7, $27,588; Prop. 8, $76,376.

Lester H. Stock, Prop. 1, $24,172; Prop. $27,790; Prop. 3, $71,023; Prop. 4, $81,068; Prop. 7, $24,291; Prop. 8, $73,527.

Frank M. Garden Co., Prop. 1, $23,083; Prop. 3, $70,690; Prop. 7, $24,000; Prop. 8, $74,000.

George Reichley, Prop. 7, $27,000; Prop. 8, $77,970.

Grace & Bernieri, Prop. 2, $26,488; Prop. 4, $73,976; Prop. 7, $26,248; Prop. 8, $72,224.

Heating and Ventilating.

	Plumbing	Heating
Frederick S. Snook Co.	$3,750	$8,666
Frank J. Klimm	3,655	9,475
J. M. Lettich	3,900	9,100
George M. Zaro	4,270	10,628
Herbert S. Landers	3,080	8,100
Wm. F. Wilson Co.	2,879	7,392
Gilley-Schmidt Co.	$2,512	$7,184

J. E. O'Mara, plumbing, $3,280 and $8,080; heating, $2,306 and $7,128.

Wittman-Lyman Co. plumbing, $3,790 and $9,330; heating, $2,370 and $7,490.

Campbell Bldg. Co., plumbing, $3,760 and $8,515; heating, $2,500 and $6,700.

Burnham Plumbing Co., plumbing, $3,285 and $8,095; heating, $2,300 and $7,000.

Scott Co., plumbing, $3,290 and $8,193; heating, $2,480 and $7,440.

Turner Co., plumbing, $3,270 and $8,530; heating, $2,180 and $7,040.

Electric Work.

Frank W. Watt	$3,224	$8,406
Rex Elec. Co.	1,991	6,057
Campbell Bldg. Co.	2,300	7,600
F. A. Mantell	1,358	4,793
H. S. Tittle	2,690	7,930
Turner Co.	2,900	8,312
F. E. Newbery Elec. Co.	2,460	7,695

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City of Oakland. Bids will be received until June 1st at 12 noon for street improvements ordered under the following resolutions: That East 16th street from the northwest line of Fruitvale avenue to the southeast boundary line of the City of Oakland, be graded, curbed with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also that two corrugated iron and concrete culverts, each having two branches, be constructed in East 16th streets as follows: One, each, in the crossings of 27th avenue and 28th avenue; also that each of the four existing storm water inlets in East 16th street between Fruitvale avenue and 29th avenue be replaced with a new brick storm water inlet with cast iron

LIGHTING POSTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on June 1st for constructing 48 lighting posts along Grove street, between 47th and 59th streets; also lighting posts to be constructed 10.3 feet east from the west line of West street and 52 feet south from the south line of 53rd street.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received until noon on June 1st for street improvements under the following resolution: That East 12th street, from the southeast line of 13th avenue to the northwest line of 23rd avenue be graded, curbed with concrete, guttered with brick gutters 14 inches wide and paved with asphalt; also for the installation of catchbasins, concrete culverts, brick manholes, corrugated culverts, 8-inch sewer, etc. top.

SEWER CONSTRUCTION—Cost not stated. Berkeley, Alameda Co., Cal Engineer, City Engineer, Berkeley Owners, City of Berkeley. Bids will be received up to May 26th at 10 a. m. for furnishing the necessary materials, tools and labor for the construction of a combined sewer, manholes and appurtenances in Hearst avenue from Shattuck avenue to Oxford street in the city of Berkeley.

RESIDENCE — 1 story and basement frame, $2,000. Albany, Alameda Co. Cal. Architects, none. Owners, E. & A. Company, Syndicate Bldg., Oakland. Location, south Marin west of Pomona. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co. Cal. Architect, none. Owner, T F. Malley, 3001 Grove street, Oakland Location, north Alcatraz east of Adeline. Will contain five rooms and bath Interior finish pine and redwood with white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base frame, $3,000. Piedmont, Alameda Co. Cal. Architect, none. Owner, G. L Mohr, 2055 University avenue, Berkeley. Location, San Carlos avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire paces. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—2 story and base, frame, $8,000. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, D. M. Heagerty. Location north East 14th street east of 41st avenue. Will contain a number of two and three room apartments. Interior finish pine and white enamel. Hardwood floors. Central heating system and hot water supply. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster and rustic. Plans complete and figures being taken.

APARTMENT HOUSE—2 story and base, frame, $8,000. Oakland, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner, C. A. Heijne. Location, 41st and Webster streets. Will contain eight apartments of two rooms and bath. Interior finish pine with some white enamel and redwood. Hardwood floors. Gas steam radiators. Hot water system. Wall beds. Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, frame, $35,000. Oakland, Cal. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, Broadway near 40th street, covering an area of 40 by 120 feet. Will contain a number of two-room apartments. Each apartment with shower bath. Interior finish pine and redwood. Some hardwood floors. Steam heat, oil burning furnace and hot water system. Wall beds. Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

SORORITY HOUSE ADDITION — 3 story, frame, $4,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, Louis Engler, 2721 Haste street, Berkeley. Location, north Haste east of College. New portion of the building will contain nine rooms and two baths. Interior finish pine and hardwood with some white enamel. Hardwood floors. Heat from present plant. Open fire places and tile or brick mantels. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, J. F. Chambers, 206 Plaza Bldg., Oakland. Location, west View street north of Mather. Will contain five rooms, bath and sleeping purch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,500. Berkeley, Alameda Co., Cal. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, T. D. Stevenson. Location, Claremont Park. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout except in baths which will be finished in tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and new figures being called.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, C. Texdahl, 3035 Harper street, Berkeley. Location, west Texdahl south of Oregon. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $4,500 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Country Club Heights. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Robert Wilson, 972 57th street, Oakland. Location 57th street west of Lowell. Will contain four rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 1 story and base, frame, $2,500 to $3,000 each. Berkeley, Alameda Co., Cal. Architect, C. H. Skidmore, Hearst Bldg., S. F. Owner, Mr Peters. Location, Northbrae. Each house will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $4,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter H. Packard. Location, Excelsior Heights. Each dwelling will contain seven rooms, bath and sleeping porch. Interiors finished in pine, redwood and white enamel with some gum. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 1 story and base, frame, $3,000 each. Alameda, Alameda Co., Cal. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner, John D. Garretson. Location, Willow street. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and white enamel with some southern gum. Hardwood floors. Open fire places and tile and brick mantels. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, I. A. Kellogg, 3401 Champion street, Oakland. Location, west High street south of Santa Rita. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—5, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Dr. Cohen. Location, Country Club Heights. Each house will contain eight rooms, two baths and sleeping porches. Separate garages will be erected. Interior finish pine, hardwood, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $2,000 each. Alameda, Alameda Co., Cal. Architect, none. Owner, G. H. Noble, 2220 Central avenue, Alameda. Location, 2510 Buena Vista avenue. Each house will contain five rooms, bath and sleeping porch. Interiors finished in pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile floors. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $6,000. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, Mrs. Alpha Hollis. Location, Wheeler Tract. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, southern gum and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and ready for figures.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, La Loma avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and

furnace heat. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $3,000. Oakland, Cal. Architect, none. Owner, E. Maasberg, 3915 Greenwood avenue, Oakland. Location, west Park Boulevard, north of Hampel. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,600. Oakland, Cal. Architect, none. Owner, W. A. Devinney, 1375 California street, Oakland. Location, east Manila south of 38th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $9,000. Berkeley, Alameda Co., Cal. Architect, William C. Hays, First National Bank Bldg., S. F. Owner, Dr. H. W. Weirick. Location, Claremont. Will contain ten rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

FACTORY ADDITION — 1 story, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owners, Manasse Block Tanning Co. Location, 4th and Camelia streets. Work will consist of erecting a one-story frame addition. Plans complete and work to be done by Day Labor.

GARAGE—1 story and base, brick and steel, $20,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Edward Sommarstrom. Location, 28th and Broadway. Designed for a commercial garage. Construction fireproof. Will contain office, storage space, wash rooms and repair department. A large mezzanine floor has also been provided. Interior finish pine. Cement floor. Metal window sash and frames and special gasoline storage tanks. Exterior faced with pressed brick. Plans being prepared.

SCHOOL LIGHTING FIXTURES — Cost not stated. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be opened on May 31st for lighting fixtures to be installed in the Benj. Ide Wheeler Hall. Plans can be secured from the Comptroller's office at Berkeley. An official proposal appears in this issue.

Contracts Awarded.

LIBRARY HEATING AND ELECTRIC WORK—Cost as follows. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Contractors, Scott Co., 243 Minna street, S. F., heating and ventilating, $29,880. Ne Page-McKenny Co., 149 New Montgomery street, S. F., electric work, $20,426.

CURBWAY—Reinforced concrete, $19,388. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Contractors, Tieslau Bros., 110 Jessie street, S. F. Contract price, $19,388.

SAN JOSE AND THE SANTA CLARA VALLEY

SUBWAY—Reinforced concrete. Cost not stated. Palo Alto, Santa Clara Co., Cal. Engineer, City Engineer, Palo Alto. Owners, City of Palo Alto. The Palo Alto City Council at its last meeting determined to go ahead with the building of the subway at Palo Alto avenue, the location that was originally fixed and for which all the preliminary steps have been taken.

HIGHWAY CONSTRUCTION—$200,000. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. Plans and specifications prepared by Irving L. Ryder, County Surveyor, for 14 miles of county highways have been approved by the Board of Supervisors, and bids for the contracts on the four big jobs involved will be opened by the Board on June 5th at 11 a. m. One job is from the city limits at the King road to the line of the city reservation of Alum Rock Park, a distance of about 4 miles. The roadway is to be 24 feet wide to Capitol avenue, about a third of the distance, and 18 feet wide the rest of the way to the reservation line. From the State highway near Sunnyvale to Saratoga, a distance of about 6 miles, is the work that will make the second and third jobs. The fourth job is on the Stevens Creek road, from Meridian corners to Cupertino, a distance of about 3¾ miles. All of the last three jobs will be 18 feet wide. All four will have a 3-foot shoulder. There will be a 4-inch base of hydraulic concrete, and a 1½-inch asphaltic concrete top. However, wherever the grade runs more than 5 per cent, there will be vitrified paving blocks. The whole job comprises slightly more than 1,523,000 square feet of surface to be paved. Plans may be had from the County Clerk.

HIGHWAY PAVING—Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose Owners, Santa Clara County. County Engineer Ryder is preparing to submit to the Supervisors for approval, plans and specifications for four jobs of concrete paving. The first is from Saratoga to Los Gatos, a distance of about three miles, and will finish the road from the State highway near Sunnyvale to Saratoga, which was ordered recently. Another job covers Lincoln avenue, from Minnesota avenue to the Almaden road, a distance of about 1½ miles. On McLaughlin avenue, from William street to Auburn avenue, a distance of about 3 miles, is another project; and from the State highway to the town of Campbell, a distance of about half a mile, is a fourth job. Further mention will be made of this work.

BRIDGES, CULVERTS, ETC.—Reinforced concrete. Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners Santa Clara County. At the last meeting of the County Supervisors plans and specifications for the construction of a reinforced concrete bridge on Columbet avenue in San Martin were adopted and the Clerk directed to advertise for bids to be opened on Monday, June 19th, 1916, at 11 a. m. Plans and specifications for the construction of a reinforced concrete culvert on Foothill avenue at Echo ranch in the County of Santa Clara were also adopted and the Clerk directed to advertise for bids to be opened on Monday, June 19th, 1916, at 11 o'clock a. m. The same action was taken on plans and specifications for the construction of a reinforced, single-span, slab-type culvert on Foothill avenue in the County of Santa Clara, and the Clerk directed to advertise for bids to be opened on Monday, June 19, 1916, at 11 o'clock a. m. Plans and specifications for the construction of a reinforced concrete culvert on McKeen road near Bailey were also adopted and the clerk directed to advertise for bids to be opened on Mon, day, June 19th, 1916, at 11 o'clock a. m.

STREET IMPROVEMENT—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. The City Engineer has been instructed by the City Council to prepare plans and specifications for the improvement of three streets with waste rock and redwood curbing. The streets are Gell street from South Main to Iverson street; North Rikei street, from Central avenue to South Park street, and Capitol street to the east line of Homestead avenue. Bids will be called for on completion of the plans.

STREET IMPROVEMENT—Cost not stated. Salinas, Monterey Co., Cal. Engineer, City Engineer, Salinas. Owners, City of Salinas. The City Council has ordered bids received up to June 1st for the improvement of East Gabilan street from Monterey to California streets. Plans for this work may be had from the City Engineer or City Clerk at Salinas.

RESIDENCE — 2 story and base, concrete and frame, $60,000. Burlingame, San Mateo Co., Cal. Architect, Charles E. Gottschalk, Phelan Bldg., S. F. Owner, Edwin Christensen. Location near Burlingame. Designed for a country home and will contain fourteen rooms, several baths and conservatory. A number of out buildings are also included in the plans. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water, hot water circulating system and vacuum cleaning. Bath rooms finished in tile. Open fire places and tile or brick mantels. A considerable amount of landscape work is also included. Exterior faced with cement plaster. Plans complete and figures to be called for shortly.

RESIDENCE — 1 story, frame. Cost not stated. Hollister, San Benito Co., Cal. Architect, Albert Farr, Foxcroft Bldg., S. F. Owner, W. L. Hawkins. Location, near Hollister. Designed in the Spanish Colonial style and will contain twelve rooms, three baths and sleeping porch. Built around an open patio. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior faced with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

SCHOOL—1 story, frame. Cost not ated. San Bruno, San Mateo Co., Cal. rchitects, Edwards & Norberg, Bank dg., Burlingame. Owners, San Bruno hool District. Will contain two class oms. Interior finish pine. Stoves fo eating. Exterior covered with ce ent plaster. Plans complete and new tures being taken. Bids open on ay 31st at 8 p. m.

Contracts Awarded

STREET PAVING — $142,679. Palo lto, Santa Clara Co., Cal. Engineer, ty Engineer, Palo Alto. Owners, ty of Palo Alto. Contractors, Paul & ldwell, Stockton. Contract price, 142,679.

SIDEWALKS, ETC.—Cost not stated. edwood City, San Mateo Co., Cal. Enineer, City Engineer, Redwood ity. wners, Redwood City. Contractor, oward Dam, Redwood City. Contract rice not stated.

OILING ROADS—Cost as follows. edwood City, San Mateo Co., Cal. Enineer, County Surveyor, Redwood ity. Owners, San Mateo County. Conactors, Blanchard-Brown Co., 660 arket street, S. F. Contract price, .166 per square yard.

STREET PAVING—$8,846.91. Salinas, onterey Co., Cal. Engineer, City Enineer, Salinas. Owners, City of Sanas. Contractor, W. A. Dontanville, alinas. Contract price, $8,846.91.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

CREEK IMPROVEMENT—Cost not tated. Petaluma, Sonoma Co., Cal Engineer, City Engineer, Petaluma wners, City of Petaluma. At the last neeting of the City Council the City Engineer was ordered to prepare plans nd specifications for the improvement f Thompson Creek.

STREET IMPROVEMENTS—Cost not tated. Petaluma, Sonoma Co., Cal. Eneer, City Engineer, Petaluma. Ownrs, City of Petaluma. At the last neeting of the City Council the City Engineer was instructed to prepare lans and specifications for the imrovement of Payran and Ellis streets n East Petaluma. On resolution by Councilman McCargar, the City Engineer was ordered to prepare plans and specifications for the curbing and gutering of East Washington street. Plans were also ordered for the sewer in Cherry Valley.

STREET IMPROVEMENT—Cost not stated. Sonoma, Sonoma Co., Cal. Engineer, City Engineer, Sonoma. Ownrs, City of Sonoma. Bids will be received until June 2 at 8 p. m. to furnish all tools, implements, labor and material and build and construct a one-course concrete pavement on Napa street, between 1st street east and 1st street west, 570 feet more or less. City will furnsh the roller and roll subgrade.

GARAGE—1 story, reinforced concrete, $18,000. Sausalito, Marin Co., Cal. Architect, T. Patterson Ross, 310 California street, S. F. Owners, Schnell Estate. The main portion of the building will contain a commercial garage, while the rear, which extends out over the water will be arranged for a wharf, at which over 30 motor boats will be cared for. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 1 story, frame, $1,500 to $1,600 each. Giant, Contra Costa Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Each house will contain five rooms and bath. Interior finish pine and redwood. Open fire places and tile mantels. Exteriors cement plaster and rustic. Plans being prepared and work to be done by Day Labor.

SCHOOL—1 story, frame, $9,000. Moraga, Contra Costa Co., Cal. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Moraga School District. Will contain two class rooms, library, teachers' rooms and two open-air class rooms. Interior finish pine. Stoves for heating. Exterior covered with cement plaster. Plans being prepared.

SCHOOL ADDITION AND ALTERATION—Cost not stated. Pittsburg, Contra Costa Co., Cal. Architect, William Knowles, Central Bank Bldg., Oakland. Owners, Pittsburg School District. Bids will be received until May 31st at 2 p. m. for extensive alterations and additions to the present building. Plans can be secured from the architect.

Contracts Awarded.

LIBRARY—1 story, frame, $2,550. Walnut Creek, Contra Costa Co., Cal. Architect, none. Owners, Town of Walnut Creek. Contractor, C. Randolph Hook, Walnut Creek. Contract price, $2,550.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

HIGHWAY CONSTRUCTION — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. At the last meeting of the County Supervisors plans and specifications for the construction of the Bakersfield-Mojave road were accepted and bids will be received for said construction up to 10:30 a. m. June 8th. Plans may be had from the County Engineer at Bakersfield.

SEWER PUMPING PLANT—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. At the last meeting of the City Council City Engineer Ray was authorized to draw plans and specifications for installation of the pump and motor at the Myrtle sewer pumping station.

BRIDGES AND ROAD CONSTRUCTION—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Bids will be received until June 8th at 10 a. m. for grading, paving and construction of bridges and culverts on Division 6, Section 2, McKittrick-Maricopa road, being that portion lying between a point 400 feet west of the office of the American Oilfields Co. and the west city limits of Taft, length approximately 7.45 miles.

STREET PAVING — Cost not stated. Bakersfield, Kern Co., Cal. Engineer City Engineer, Bakersfield. Owners City of Bakersfield. In response to a petition presented to the City Council the City Engineer was directed to prepare plans and specifications for the paving of 17th street, from Oak to Union avenue. The City Engineer was also directed to prepare the necessary plans and specifications to grade, roll and tamp all the streets east of Union and north of the Southern Pacific tracks.

STREET IMPROVEMENT Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield Owners, City of Bakersfield. After awarding a contract to Fred Nighbert N17 I street, Bakersfield, the City Council after further consideration withdrew the award for grading and tamping in Districts No. 24, 25 and 26, as the work was protested.

BRIDGE—Reinforced concrete and steel. Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, associated with Consulting Engineers, Leonard & Day, Rialto Bldg., S. F. Owners, Stanislaus County. New bids have been called for on the construction of the bridge to be erected over the Tuolumne River near Modesto. The structure will be over 1,000 feet long, 40 feet wide, and provides for a wagon road and two foot paths. Bids will be opened on June 13th at 2 p. m.

ROAD MACHINERY—Cost not stated. Hanford, Kings Co., Cal. Engineer, County Clerk, Hanford. Owners, King ounty. Bids will be received by the Board of Supervisors up to 10:30 a. m. of June 5th for furnishing the county one traction engine, or caterpillar, with at least 22 H. P. draw-bar pull, for road working purposes. Also, bids will be received by the Board up to 10:35 a. m. of June 5th for furnishing the county one M. Haynes Universal road machine for road working purposes. E. F. Pickerill is the ex-officio Clerk of the Board.

STREET IMPROVEMENTS—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Bids will be received on May 29th at 5 p. m. for street improvements ordered under the following resolutions: That 24th St., from the west line of G street to the west line of Chester avenue; 25th St., from the east line of G street to the west line of Chester avenue; 26th street, from the east line of G street to the west line of Chester avenue; 27th street, from the east line of G street to the west line of Chester avenue; 28th street, from the east line of H street to the west line of Chester avenue; G street, from the north line of 24th street to the north line of 28th street; I street, from the north line of 28th street to the south line of 29th street, together with all the intersections of streets and alleys, be graded, tamped and rolled.

RESIDENCE — 2 story and base, frame, $10,000. Exeter, Tulare Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owner, A. C. Dungan. Will contain twelve rooms, three baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE — 1 story and base, frame, $2,000. Fresno, Fresno Co., Cal. Architect, none. Owner, A. A. Sadler, 1943 Fresno street, Fresno. Location, Arlington Heights. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place anad tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $3,000. Fresno, Fresno Co., Cal. Architect, none. Owner, Fred Jones, Fresno. Location, East Fresno. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HOTEL AND STORES—4 story and base, brick and steel. Cost not stated. Visalia, Tulare Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owner, J. Sub Johnson. Will cover an area of nearly 100 by 100 feet. First floor arranged for stores besides the hotel lobby. Upper floors will contain in the neighborhood of 110 rooms a large percentage of which will have private baths. Interior finish pine, hardwood and redwood. Steam heat, oil burning plant, hot water supply, vacuum cleaning and elevator service. Patent store fronts and marble bases. Tile bath rooms. Exterior faced with presed brick. Plans being prepared.

SCHOOL AND COTTAGES — Frame construction, $10,000. Bullard, Fresno Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Bullard School District. Plans have been completed and figures are now being taken for a one-story frame school and school cottages. Bids will be opened on June 5th at 2 p. m. Plans and specifications can be secured from the architects.

SCHOOL—1 story and base, reinforced concrete. Cost not stated. Round Valley, Inyo Co., Cal. Architect's name not given. Owners, Round Valley School District. Will contain two class rooms and an assembly hall. Interior finish pine with maple floors. Stoves for heating. Exterior faced with cement plaster. Plans complete and figures to be opened June 1 at 10:30 a. m. Plans on file at the City Market, Round Valley.

Contracts Awarded

SCHOOL—1 story and base, brick and concrete, $21,600. Bakersfield, Kern Co., Cal. Architect, O. L. Clark, Brower Bldg., Bakersfield. Owners, City of Bakersfield. Contractor, M. T. Kean, 2200 24th street, Bakersfield. Contract price, $21,600.

BRIDGE—Concrete and timber, $1,281. Merced, Merced Co., Cal. Engineer, County Surveyor, Merced. Owners, Merced County. Contractor, W. H. McElroy, Merced. Contract price, $1,281.

PAVING—$10,625.20. Oakdale, Stanislaus Co., Cal. Engineer, City Engineer, Oakdale. Owners, City of Oakdale. Contractors, Raisch Improvement Co., Crocker Bldg., S F. Contract price, $10,625.20.

CULVERTS, GRADING AND PAVING—$65,030.98. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractors, W. C. Price & Co., Bakersfield. Contract price, $65,030.98.

STREET IMPROVEMENT—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, F. W. Nighbert, 817 I street, Bakersfield. Contract price not stated.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

PAVING PLANT AND EQUIPMENT —Cost not stated. Lodi, San Joaquin Co., Cal. Engineer, City Engineer, Lodi. Owners, City of Lodi. The bids for furnishing a paving plant for this city, which were reopened at the last meeting of the City Council, were many and varied. Nine companies in all submitted bids, and as each one of these submitted a number of propositions, it will require considerable study before the most attractive ones can be chosen. The Council decided to take ten days before deciding definitely, and May 25th was the date set for the final decision.

BRIDGE—Reinforced concrete. Cost not stated. Ukiah, Mendocino Co., Cal Engineer, County Surveyor, Ukiah. Owners, Mendocino County. At the last meeting of the County Supervisors plans and specifications for the construction of the proposed new bridge across Salmon Creek were accepted by the Board, and it was ordered that bids be advertised for the construction. Bids to be received on wooden piling and also a bid on reinforced concrete piling. Plans may be had from the County Clerk.

BRIDGE—Reinforced concrete. Cost not stated. Placerville, El Dorado Co. Cal. Engineer, County Surveyor, Placerville. Owners, El Dorado County. Bids will be received until June 6th at 2 p. m. for furnishing all labor, materials and mechanical workmanship necessary for the construction of a new bridge over the South Fork of the American River near the town of Coloma, and the clearing of said ground for the reception of bridge.

STREET AND SEWER CONSTRUCTION—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 1st at 11 a. m. for street and sewer work ordered under the following resolutions: That 15th street, from the south line of B street to the north line of G street (except the intersections of C, D, E, and F streets with 15th street) be improved by removing and disposing of basalt block gutters and all other surplus and refuse material; construct concrete curb on official line and grade; construct concrete gutter on official line and grade where concrete gutter does not exist; placing six cast iron gutter drains with 6-inch vitrified ironstone sewer pipe elbows attached; construct three concrete manholes, complete, with cast iron curbs and covers, reconstruct three concrete catchbasins by placing same to official grade; construct 6 and 8-inch vitrified ironstone sewer pipe drains; placing 174 linear feet of concrete protective covering over sewer pipe.

STREET IMPROVEMENTS — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 1st at 11 a. m. for street improvements ordered under the following resolutions: That 30th St., from the north line of Y street to the Lower Stockton road (except the intersections of 30th and Orange avenue, 30th and Magnolia and 30th and Madrone) be improved by removing and disposing of one 20 by 32 foot wooden bridge at the intersection of 30th and Y streets, and all other surplus and refuse material; construct concrete curb on official line and grade; construct concrete gutter on official and grade; construct cast iron gu drains with 6-inch vitrified, ironst sewer pipe elbows attached; consti concrete manholes, complete, with iron curbs and covers; reconstruct 1 concrete manholes by placing same official grade; construct 6 and 8-i vitrified, ironstone sewer pipe dra grade the roadway from the north of Y street to a point 40 feet south the south line of Cypress avenue, construct thereon an asphaltic conc pavement, consisting of a hydra concrete foundation 4 inches in thi ness, an asphaltic cement flush c and an asphaltic concrete wearing s face 1½ inches thick.

SEWER CONSTRUCTION — $3, Stockton, San Joaquin Co., Cal. En neer, City Engineer, Stockton. O ers, City of Stockton. Plans and s cifications prepared by the City En neer for sanitary sewers in North Dorado street, from the center line Wyandotte street, will be approved the City Council at their next meet and a call for bids will be issued that time. Further mention will made of this work when bids are ca for.

STREET PAVING—$12,398. Sto ton, San Joaquin Co., Cal. Engin City Engineer Compton, Stock Owners, City of Stockton. Because lack of funds the city will not pave of Miner avenue this year. Plans specifications have been filed with City Council for the paving of the st to be done at this time and will be proved by the Council at the n meeting. Further mention will made of this work when bids called.

STREET IMPROVEMENT—Cost stated. Napa, Napa Co., Cal. Engin Town Engineer, Napa. Owners, To of Napa. Bids will be received on M 29th at 7:30 p. m. for work authori under the following resolution: T the roadway on Laurel street, from west line of Grant avenue to the e line of Even street, except the int sections of Union and Laurel stre and Franklin and Laurel streets, graded and that cement concrete cu be constructed on both sides of s roadway between said limits. A that the roadway be paved with tw course asphalt macadam, consisting crushed rock 6 inches in depth af its final rolling and asphaltum with penetration between 101 and 150 grees District of Columbia Standard

BANK AND OFFICES—2 story s base, brick, $25,000. Ukiah, Mendoc o., Cal. Architect, W. H. Weeks, Post street, S. F. Owner, Bank of M docino County. Bids have been open for the construction of this buildi and a contract will be awarded short The entire first floor will be occup by the bank and will be finished hardwoods and tile. Special bank f tures and vaults are to be install Upper floors will be arranged for m ern offices and will be finished in p and redwood. A central heating s tem will be installed. Exterior will faced with pressed brick.

BRIDGE—Reinforced concrete. C not stated. San Andreas, Calaveras C Cal. Engineer, not selected. Owne Calaveras County. At the last meeti of the County Supervisors the follo ing submitted plans and specificatio for a reinforced concrete bridge o

the north fork of the Calaveras River between the towns of San Andreas and North Branch: Leonard & Day, A. V Saph, Given & Pearce, Commonwealth Engineering Co. Action in the matter was laid over. Further mention will be made of this work.

BRIDGE—Reinforced concrete. Cost not stated. San Andreas, Calaveras Co., Cal. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. At the last meeting of the County Supervisors W. S. Coulter, County Surveyor, was directed to immediately prepare plans and specifications for a reinforced concrete bridge of the girder type over the Middle Fork of the Mokelumne River, near the town of West Point, and it was further ordered that the Clerk of the Board advertise for sealed bids, said bids to be received by and filed with the Clerk up to 1 o'clock p. m. Monday, June 5th, 1916. Further information may be had from the County Clerk.

BATH HOUSE—1 story and base, concrete and frame. Cost not stated. Calistoga, Napa Co., Cal. Architect, Frank S. Holland, Call Bldg., S. F. Owners, Calistoga Mud and Sulphur Baths. Will contain rest room, hot rooms, dressing rooms and office. A separate building, also one story, will be erected to house the pumping plant. New wells have been put down and a continuous flow of hot sulphur water has been obtained. Special plumbing fixtures will be required. Exterior will be faced with cement plaster. Plans complete and figures are being taken.

LIBRARY—1 story, frame, $7,000. Lakeport, Lake Co., Cal. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, Town of Lakeport. Will contain reading rooms, librarian's office and stack room. Lecture room in the basement. Interior finish pine. Maple floors. Exterior covered with cement plaster. Plans complete and contract to be let at once.

SCHOOL—1 story and base, frame and plaster, $13,572. Newcastle, Placer Co., Cal. Architect, Allen D. Fellows, East Auburn. Owners, Newcastle School District. The lowest bid received for the construction of the new school building was that of Liscom & Mountz, Newcastle, for $13,572, and they will probably be awarded the contract. A complete list of the bids received will be found under the heading Sacramento and Northern California.

Bids Received For Newcastle School.

Liscom & Mountz, Newcastle, Will Build New School, Designed by Architect Allen D. Fellows.

Three sets of figures were received by the Board of School Trustees of the Newcastle School District, Placer County, for the construction of a one-story frame and plaster building, designed by Architect Allen D. Fellows, of East Auburn. Liscom & Mountz, Newcastle, submitted the lowest bid at $13,572. A contract will be awarded shortly.

Newcastle School.

Liscom & Mountz, Newcastle	$13,572
W. B. Lardner, Jr., Auburn	13,600
Herndon & Finnegan, Sacramento	14,189

LOS ANGELES & SOUTHERN CALIFORNIA.

ROAD BUILDING MACHINERY—Cost not stated. Arcadia, Los Angeles Co., Cal. Engineer, City Engineer Arcadia. Owners, City of Arcadia. Bids will be received until June 1st at 8 p m. for furnishing road building machinery as follows: One 12 to 15-ton gasoline roller; one scarifier; one light road grader, and one street sweeper. Bids will be received on each item separate as well as a combined amount of all items. Each bid must be accompanied by detailed specifications covering each item. Certified check for 5per cent. George E. Grimes, City Clerk.

THEATRE—9 story and base. Class A construction, $600,000 to $700,000. Los Angeles, Cal. Architect, J. J. Frauenfelder, Story Bldg., L. A. Owners, Business Stability Asociation. Location, southwest Broadway and 3rd street, covering an area of 120 by 199 feet. It will contain a theatre auditorium with a seating capacity of 3,000 people, 125 studio suites, and several small meeting rooms in the upper floors and 13 store rooms on the ground floor. Reinforced concrete structural frame, marble, tile, ornamental terra cotta exterior finish, plate glass windows, marble and tile flooring, mahogany interior trim, sound-deadening walls, double doors, metal frames, wire glass, three passenger elevators, steam heating, vacuum cleaning, composition roof, staff ornamentation, sprinkler system. A local theatrical man has taken a lease on the theatre portion of the building. The owners of the property are Charles D. and Fred Stimson of Seattle, from whom the property has been leased for a long term of years by the syndicate.

STREET IMPROVEMENTS—Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, City Engineer, San Luis Obispo. Owners, City of San Luis Obispo. Bids will be received until June 6th at 10 a. m. for paving that part of Higuera street, extending from the south boundary of the city to the northerly line of Nipomo street therein, a distance of 5,083.3 feet, more or less, and the installation of three concrete culverts, with the necessary grading and excavating to complete the same.

SEWER CONSTRUCTION—Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, City Engineer, Santa Barbara. Owners, City of Santa Barbara. Bids will be received until 12 noon on June 1st for: First—To construct an 8-inch vitrified pipe sewer in Gutierrez street from an existing manhole at Garden street to a manhole to be constructed in Laguna street. Second—To construct a 6-inch vitrified pipe sewer in Rose avenue from a manhole to be constructed in Gutierrez street to a manhole to be constructed in rose avenue, 328 feet northwest therefrom. Third—To construct an 8-inch vitrified pipe sewer in Laguna street from a manhole to be constructed 295 feet northwest therefrom. Together with manholes, flushing manholes and all appurtenances necessary for the construction, operation and completion of said sewers.

PIER—Reinforced concrete and timber, $70,000. Manhattan Beach, Los Angeles Co., Cal. Engineer, A. L. Harris, Phoenix, Ariz. Owners, Town of Manhattan Beach. Engineer A. L. Harris has completed plans for the new cement pier to be erected to replace the wooden structure recently destroyed. It will be 1,600 feet long on reinforced concrete piers, with observation tower, boat landing and public comfort stations.

JETTIES AND PIER—Concrete and timber, $85,000 and $35,000. Ocean Beach, San Diego Co., Cal. Engineer, City Engineer, Ocean Beach. Owners, City of Ocean Beach. The War Department has granted permission to the city to construct two jetties and a pleasure pier at Ocean Beach. City Engineer George Cromwell is preparing plans, which consist of a concrete pier 800 feet long, with comfort station, cement steps, similar to the pier erected at the La jolla biological station, to be erected at the foot of Narraganset street. One jetty will extend from Narraganset street and the other from the south side of the channel of Mission Bay. Estimated cost, pier $35,000, and the jetties $85,000.

HOTEL—4 story and base. Class C construction, $30,000. Los Angeles, Cal. Architect, Charles E. Shattuck, Mason Bldg., L. A. Owner, A. L. Phillips. Location, 6th street near Ruth avenue. Will contain 60 rooms and a number of public baths. Interior finish pine. Steam heat, oil burning system and hot water supply. Bath rooms tile. Exterior faced with ruffled brick. Plans are being prepared.

HOTEL—3 story and base, hollow tile. Cost not stated. Culver City, Los Angeles Co., Cal. Architect, Arthur G. Lindley, Hollingsworth Bldg., L. A. Owner, Leslie Cranhourne. Will contain a number of single rooms and baths. Interior finish pine. Steam heat and hot water supply. Oil burning furnace. Bath rooms tile. Exterior faced with cement plaster. Preliminary plans being prepared.

HOSPITAL WARDS—1 story, reinforced concrete, $22,775. Los Angeles, Cal. Architect, George Low, Hall of Records, L. A. Owners, Los Angeles County. The National Fireproofing Co., Central Bldg., L. A., presented the low figure for this work and will probably be awarded the contract.

HOSPITAL—2 story and base, reinforced concrete. Cost not stated. San Pedro, Los Angeles Co., Cal. Architect, Charles F. Durr, San Pedro. Owner, P. H. Berg, 112 Severance Bldg., L. A. Will cover an area of 38 by 82 feet. Construction fireproof. Interior arranged for wards and single rooms. Steam heat, oil burning system, hot water supply and vacuum cleaning. Interior finish pine and white enamel. Hardwood floors. Bath rooms tile. Exterior faced with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—2 story and base, hollow tile, $50,000. Beverly Hills, Los Angeles Co., Cal. Architect, Edwin Bergstrom, Citizens' National Bank Bldg., L. A. Owner, M. H. Whittier. Will contain 18 rooms and 6 baths. Interior finish pine, hardwood and white enamel. Bath rooms finished in tile and equipped with showers. Hardwood floors throughout. Central heating system, probably hot water, oil burning plant. Hot water circulating system. Open fire places and tile or brick mantels. Clay tile roof and cement plas-

ter exterior. Plans being prepared.

RESIDENCE — 2 story and base, frame and plaster. Cost not stated. Oak Knoll, Los Angeles Co., Cal. Architect, Robert M. Taylor, Marsh-Strong Bldg., L. A. Owner's name not given. Will contain 17 rooms and 4 baths, sleeping porches and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heat, oil burning plant and hot water circulating system. Bath rooms tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Roof clay tile. Plans being prepared.

SCHOOL—1 story and base, brick, $20,000. San Dimas, Los Angeles Co., Cal. Architect, Norman F. Marsh, Broadway Central Bldg., L. A. Owners, San Dimas School District. Besides the class rooms, plans provide for manual training, domestic science and an auditorium. Interior finish pine. Maple floors in class rooms. Central heating system. Exterior faced with pressed brick. Plans being prepared.

SCHOOL—1 story and base, brick. Cost not stated. Inglewood, Los Angeles Co., Cal. Architect, Norman F. Marsh, Broadway Central Bldg., L. A. Owners, Inglewood School District The building will be in the nature of an addition to the present auditorium. Interior finish pine with maple floor. Central heating system extended from the present plant. Exterior faced with pressed brick. Plans complete and bids to be opened on June 2nd.

Contracts Awarded.

BANK AND OFFICES—3 story and base, brick and steel, $50,000. Anaheim, Orange Co., Cal. Architect, M. Eugene Durfee, Anaheim. Owners, First National Bank of Anaheim. Contractors, Nance Construction Co., 9th street and Central avenue, Orange. Contract price, $50,000. The steel contract has been let separately to the Baker Iron Works.

SCHOOL—2 story and base, brick, $20,000. Pasadena, Los Angeles Co., Cal. Architect, John P. Lynch, 4265 South Normandie avenue, Pasadena. Owners, Roman Catholic Archbishop of Monterey. Contractor, J. V. McNeil, 530 Wesley Roberts Bldg., Pasadena. Contract price, $20,000.

PORTLAND AND OREGON

MAUSOLEUM—1 story, stane and reinforced concrete, $53,000. Pendleton, Ore. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Portland Mausoleum Co. Will contain a large number of crypts, a chapel and office. Interior finish Caen stone Modern plumbing and electric work. Art glass windows and ornamental iron and bronze. Exterior faced with granite and marble. Plans being prepared.

SCHOOL—1 story and base, brick, $20,000. Milwaukee, Ore. Architect, Claussen & Claussen, Macleay Bldg., Portland. Owners, Milwaukee School District. Will contain eight class rooms and auditorium. Interior finish pine with maple floors in the class rooms. Steam heat. Exterior faced with pressed brick. Plans are being prepared.

SCHOOL—2 story and base, brick and reinforced concrete, $125,000. Baker City, Ore. Architects, Lawrence Holford, Chamber of Commerce Bldg., Portland. Owners, Baker City. Designed for a high school, and will contain, besides the class rooms, science departments and manual training. A large auditorium is also provided. Interior finish pine with maple floors. Steam heat, oil burning furnaces and vacuum cleaning. Exterior faced with pressed brick. Plans complete and bids to be opened on June 12th.

Contracts Awarded

ROUNDHOUSE—1 story, reinforced concrete, $40,000. La Grande, Ore. Architect, none. Owners, Oregon-Washington Railroad and Navigation Co. Contractor, M. J. Hursen Co., Globe Bldg., Seattle. Contract price, $40,000.

SCHOOL—2 story and base, brick and concrete, $22,417. North Powder, Ore. Architects, Tourtellotte & Hummel, Rothchild Bldg., Portland. Owners, North Powder School District. Contractor, C. H. Rush, La Grande. Contract price, $22,417.

SEATTLE AND WASHINGTON

DOCK WORK — $30,000. Seattle, Wash. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids have been called for the Port of Seattle Commission, Bell Street Dock, to be opened June 7th, for the excavation, slope revetment and substructure work for the extension of the Spokane street wharf. The dock will be 113 by 380 feet, the improvement involving 751,000 feet of lumber, 8,870 pounds of steel column bases, 390 feet track, 280 feet crane rail, 47,000 feet creosoted piling, 3,000 feet untreated piling and 6,000 cubic yards of rock riprap. The dredging will cost $4,000, slope protection, $11,500, and substructure work, $12,000. Plans may be had from the City Engineer at Seattle.

GUIDE WALL—Reinforced concrete $17,285.51. Seattle, Wash. Engineer. United States Engineer, Burke Bldg. Seattle. Owners, United States Government Bids opened in the U. S. Engineer's office for the construction of an 800-foot guide wall at the Lake Washington Canal locks show Lester & Monohan, 18 Colman Dock, Seattle, the lowest bidder at $17,285.51. Work involves 35,710 feet creosoted piles, 1,470 feet plain piles, 154,844 feet lumber, 1200 pounds spikes, 12,000 pounds iron and steel.

GRAIN ELEVATOR—Reinforced concrete, $90,000. Seattle, Wash. Engineer, Port of Seattle Commision, Seattle. Owners, City of Seattle. Plans have been authorized by the Port of Seattle Commission for the doubling of the capacity of the commission's grain elevator on the East Waterway, and plans have already been started for the work by Chief Engineer J. R. West. Ten additional reinforced concrete bins will be constructed. Bids will be called for the latter part of this week.

MILL ADDITION—Reinforced concrete, $250,000. Seattle, Wash. Architects, Grant Smith & Co., Henry Bldg., Seattle. Owners, Fisher Flouring Mills Co.. Location, West Waterway. The drawings show the first unit will consist of an 8 and 7 story mill building, 90 by 150 feet, and a 5 story 90 by 120 foot warehouse. A 90 by 102 foot extension will be made to the present dock. All building work will be of reinforced concrete construction. Further mention will be made of this work.

PIERCE-BOSQUIT
Abstract & Title Co.
CAPITAL STOCK, $100,000
Sacramento, Placerville, Nevada City, Reno
SACRAMENTO OFFICE
ROSS E. PIERCE - Manager
905 SIXTH STREET

Contracts Awarded

APARTMENT HOUSE—3 story and base, brick, $45,000. Seattle, Wash. Architect, C. Alfred Breitung, Walker Bldg., Seattle. Owner, Phillip Miller. Contractor, William Willis, Crary Bldg., Seattle. Contract price, $45,000.

SCHOOL—2 story and base, brick and concrete, $56,184. Seattle, Wash. Architect, Edgar Blair, 901 7th avenue, Seattle. Owners, City of Seattle. Contractor, John Larson, 4103 Ainsworth avenue, Seattle. Contract price, $56,-184.

CHILE TO CONSTRUCT NEW SCHOOL BUILDINGS.

A law recently passed by the Chilean Congress and approved by the Council of State authorizes the President to invest 10,000,000 pesos ($3,650,000) in the construction of public school buildings on sites now held by the Government. This law, as published (although not yet signed) in the Diario Oficial of March 31, also authorizes the President to issue bonds to raise the required sum, the bonds to bear 8 per cent annual interest and 2 per cent cumulative annual amortization. The bonds to be issued in the first year shall not be more than 2,-000,000 pesos ($730,000), in the second year not more than 3,000,000 pesos ($1,095,000), and in the third year, 5,-000,000 pesos ($1,825,000), but if the sums authorized for the first or second years should not be issued during the stated periods they may be added to the issue of the second or third years.

The bonds will be offered in public proposals and bids will be asked on the construction of the school buildings subject to plans and estimates to be approved by the President. Authorization is given for the use of 30,000 pesos ($1,095) of the second school-building fund in a competition and prizes for the best designs and estimates of the proposed buildings. The bond interest will be provided for in the budget law, under the division pertaining to the Ministry of Public Instruction.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1466	Keenan	Keenan	5000
1467	Same	Same	5000
1468	Same	Same	5000
1469	Same	Same	5000
1470	Same	Same	5000
1471	Cassidy	Cassidy	600
1472	Pickering	Pickering	1200
1473	Velissartos	Lagomarsino	800
1474	Schroeder	Schroeder	8000
1475	Peterson	Peterson	2400
1476	Stange	Stange	500
1477	Rucker	Rucker	4000
1478	Douglas Rlty	Owner	450
1479	Sweeney	Kempton	175
1480	Hartter	Johnson	960
1481	Zalles	Frontel	500
1482	Miller	Brumfield	400
1483	Herberts	Brumfield	1200
1484	Crocker	Nielsen	600
1485	Rednall	Rednall	8700
1486	Same	Same	4900
1487	Finocchio	Swanson	5525
1488	Leahy	Hamill	5550
1489	Pacific G & E Co.	Brandon	555
1490	Breeze	Johnson	1725
1491	Haner	Haner	400
1492	Rosenbloom	Haner	400
1493	Chiappelone	Owner	2000
1494	Ehrenpfort	Horstmeyer	1381
1495	Hond	Braunton	3000
1496	Main St. Iron	Owner	2500
1497	Universal Elec	Owner	1400
1498	Jackson	Parry	1500
1499	Delorenzi	Sangiacomo	2000
1500	Brown	Little	7000
1501	Kelham	Kelham	15000
1502	Ford	Otis	7139
1503	Welch	Palace	1500
1504	Metter	Ichters	8400
1505	Musante	McKenzie	5569
1506	Archbishop	Masow	4700
1507	Bahrs	Bahrs	3000
1508	Hare	Hare	400
1509	Doerr	Doerr	1500
1510	Lobrovich	Lobrovich	400
1511	Sam Lung	Guilfoy	500
1512	Meyer	Meyer	1800
1513	Burk	Altoff	500
1514	Segal	Abrahams	400
1515	Nelson	Nelson	1000
1516	Nelson	Nelson	2500
1517	Nelson	Nelson	2500
1518	Nelson	Nelson	2500
1519	Show	Show	50000
1520	Leach	Leach	2500
1521	Kidd	Coburn	5400
1522	Olcese	Liebert	4500
1523	Smith	Davis	1774
1524	Clinton	Band	2125
1525	Same	Rex Elec	4600
1526	Same	Otis	6100
1527	Same	Pacific Fire Extg	8500
1528	Ghiselli	Dioguardi	2225
1529	Ford	Paraffine	780
1530	Same	Percy	1050
1531	Same	Raymond	1050
1532	Same	Turner	1485
1533	Same	Band	4190
1534	Same	Maundrell	4750
1535	Same	Clark	5576
1536	Same	Pac Fire Extg	8300
1537	De Lorenzi	Sangiacomo	2000
1538	Chr Scientist	McDiarmid	8883
1539	Gilmour	Gilmour	7000
1540	Folger	Novelty	1000
1541	Friedman	Novelty	500
1542	Burr	Becaas	400
1543	Sumner	Sumner	1500
1544	Dunn	Dunn	2895
1545	Schleef	Glunz	400
1546	Van Horn	Haskins	400
1547	Stockholm	Allyn	4000
1548	Schmidt	Schmidt	450
1549	Garney	Barney	450
1550	McSheehy	McSheehy	800
1551	S P Co	Fay	——
1552	Parlettini	De Rendetti	3500
1553	Hart	Denke	1660
1554	S P Co	Fay	2708
1555	Selix	Higginson	12650
1556	Boos Bros	Boos	5000
1557	Peterson	Peterson	10000
1558	Barich	Randall	3000
1559	Daly	Callaghan	9500
1560	Remis	Remis	1900
1561	G G Iron Works	Owner	950
1562	Putnam	Putnam	500
1563	Titus	Titus	1900
1564	McDonough	Costello	1400
1565	Thomson	Grahn	800
1566	Buckland	Buckland	1000
1567	Frohman	Frohman	500
1568	Heimann	Cazzaretto	400
1569	Born	Born	4400
1570	Brown	Brown	1800
1571	Brown	Brown	1800
1572	Anderson	Anderson	2600
1573	Anderson	Anderson	2600
1574	Western Pacific	Hyde	——

FRAME FLATS

(1466) E TWENTY-SIXTH AVE 175 S Clement. Two-story and basement frame (2) flats.
Owner.....H. C. Keenan, 300 Webster San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS

(1467) E TWENTY-SIXTH AVE 200 S Clement. Two-story and basement frame flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None.
Day's work. COST, $5000

(1468) E TWENTY-SIXTH AVE 225 S Clement. Two-story and basement frame flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None
Day's work. COST, $5000

FRAME FLATS

(1469) E TWENTY-SIXTH AVE 250 S Clement. Two-story and basement frame flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS

(1470) E TWENTY-SIXTH AVE 275 S Clement. Two-story and basement frame flats.
Owner.....H. C. Keenan, 300 Webster, San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME DWELLING

(1471) W EIGHTEENTH AVE 100 S Cabrillo. One-story and basement frame dwelling.
Owner.....Jas. Cassidy, 2666 Bush, San Francisco.
Architect ...None.
Day's work. COST, $600

ALTERATIONS

(1472) W GOUGH 175 S Washington. Reset and alter dwelling.
Owner.....R. & L. Pickering, Care Architect.
Architect ...— Hyman, 404 Lick Bldg., San Francisco.
Day's work. COST, $1200

ADDITIONS

(1473) N CLEMENT 37½ W 24th Ave. Raise and add to dwelling.
Owner.....Mrs. D. E. Velissartos, 250 35th Ave., San Francisco.
Architect ...None.
Contractor..L. Lagomarsino, 278 29th Ave., San Francisco.
COST, $800

BRICK STORES

(1474) E LARKIN 87-6 N Ellis. One-story and basement brick store.
Owner.....John R. Schroeder, 641 Post, San Francisco.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Day's work. COST, $8000

FRAME RESIDENCE

(1475) W NINTH AVE 78 N Cabrillo. Two-story and basement frame residence.
Owner.....Elizabeth Peterson, 642 10th Ave., San Francisco.
Architect ...None.
Contractor..Gustav Peterson, 642 10th Ave., San Francisco.
COST, $2400

ADDITION

(1476) NO. 304 HOLLOWAY AVE. Addition to dwelling.
Owner.....John Stange, Premises.
Architect ...None.
Day's work. COST, $500

FRAME FLATS

(1477) S FIFTEENTH 225 E Castro. Two-story and basement frame (2) flats.
Owner.....William Rucker, Premises
Architect ...None.
Day's work. COST, $4000

NEW STAIRS

(1478) NO. 902 MARKET. New stairs
Owner.....Douglas Realty Co, Prem.
Architect ...Earl B. Bertz, 68 Post, San Francisco.
Day's work. COST, $150

ALTERATIONS

(1479) NO. 31 COLLINGWOOD. Alter for flats.
Owner.....Mrs. Alice I. Sweeney, 4115 19th, San Francisco.
Architect ...None.
Contractor..M. C. Kempton, 89-A Merritt, San Francisco.
COST, $175

GARAGE

(1480) NO. 820 STEINER. Erect garage.
Owner.....L. Hartter, Premises.
Architect ...S. Schnaittacher, 233 Post, San Francisco.
Contractor..J. H. Johnson, 507 15th Ave., San Francisco.
COST, $900

FRAME POOL ROOM

(1481) NE MARIPOSA AND VERMONT One-story and basement frame pool room
Owner.....Pasko Zalles, 670 Kansas, San Francisco.
Architect ...None.
Contractor..Jack Frontel.
COST, $500

ELECTRIC SIGN
(1482) NO. 535 GOLDEN GATE AVE. Electric sign.
Owner.....Miller Rubber Co., Prem.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

MARQUISE
(1483) NO. 135 POWELL. Erect marquise.
Owner.....“Herbert's,” Premises.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $1200

ALTERATIONS
(1484) NO. 2220 WASHINGTON. General alterations to dwelling.
Owner.....Mrs. Mary Ines Crocker.
Architect ...N. Blaisdell, 255 California San Francisco.
Contractor..N. F. Nielsen, 1263 42nd Ave., San Francisco.
COST, $600

FRAME RESIDENCE
(1485) N GREEN 66-2 E Lyon. Two-story and basement frame residence.
Owner.....W. W. Rednall, 2500 Filbert, San Francisco.
Architect ...Plans by Owner.
Day's work. COST, $5700

FRAME RESIDENCE
(1486) E LYON 115 N Green. Two-story and basement frame residence.
Owner.....W. W. Rednall, 2500 Filbert, San Francisco.
Architect ...Plans by Owner.
Day's work. COST, $4900

FRAME BUILDING
(1487) NE REVERE AVE (18th Ave South) 137-6 NW Keith (K) NW 37-6xNE 100. All work for one-story and basement frame building.
Owner.....G. B. Finocchio, 1147 Quesada Ave., San Francisco.
Architect ...M. J. Welsh, 915 Treat Ave., San Francisco.
Contractor..O. Swanson, 4066 18th, San Francisco.
Filed May 12, '16. Dated May 10, '16.
Frame up $881.25
Brown coated $81.25
Completed $81.25
Usual 35 days..... $81.25
TOTAL COST, $3525.00
Bond, $3525. Suety, Guardian Casualty & Guaranty Co. Limit, 100 days from May 15. Forfeit,$ 1. Plans and specifications filed.

FRAME RESIDENCE
(1488) W TWENTIETH AVE 100 N Balboa N 25xW 120. All work for two-story and basement frame residence.
Owner.....Frank Leahy, 233 9th Ave., San Francisco.
Architect ...None.
Contractor..Thos. Hamill, 5525 Geary, San Francisco.
Filed May 13, '16. Dated May 11, '16.
Rough frame up $887.50
Brown coated 887.50
Completed and accepted..... 887.50
Usual 35 days..... 887.50
TOTAL COST, $3550.00
Bond, none. Limit, 90 days from May 11. Forfeit, none. Plans and specifications filed.

EXCAVATING, ETC.
(1489) W HYDE 114-6 N McAllister N 23xW 70. Excavating, removing sand and dirt from lot, underpinning and new brick foundation beneath south wall of building.
Owner.....Pacific Gas & Electric Co., 445 Sutter, San Francisco.
Architect ...None.
Contractor..Brandon & Lawson, 180 Jessie, San Francisco.
Filed May 13, '16. Dated ——
Accepted 75%
Usual 35 days..... 25%
TOTAL COST, $555
Bond, $300. Surety, The Aetna Accident & Liability Co. Limit, forfeit, plans and specifications, none.

ALTERATIONS
(1490) NOS. 1176-74-72 MARKET. Alter interior and exterior of stores.
Owner.....Breeze Invst. Co., Mills Bldg., San Francisco.
Architect ...W. F. Breeze.
Contractor..J. Harold Johnson, 507 15th Ave., San Francisco.
COST, $1725

ALTERATIONS
(1491) NO. 3702 FOLSOM. General alterations for dwelling.
Owner.....John F. Haner, 3580 20th, San Francisco.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1492) NO. 2456 MISSION. Alter store
Owner.....R. Rosenbloom, Premises.
Architect ...None.
Contractor..John F. Haner, 3580 20th, San Francisco.
COST, $400

BRICK GARAGE
(1493) E LAGUNA 125 S Lombard. One-story brick private garage.
Owner.....G. Chiappelone, Premises.
Architect ...L. Traverso, 854 Union, San Francisco.
Day's work. COST, $2000

REPAIRS
(1494) SW BRENHAM & WASHINGTON. Repair fire damage.
Owner.....Wm. Ehrenpfort, 801 Fillmore, San Francisco.
Architect ...None.
Contractor..Wm. Horstmeyer Co., 39 Eureka, San Francisco.
COST, $1381

ALTERATIONS
(1495) NO. 230 CALIFORNIA. Build stairway, elevator and partitions from 1-st floor to basement.
Owner.....Hind Estate Co., Prem.
Architect ...John Reid Jr., 1st Nat'l. Bank Bldg., S. F.
Contractor..Harold Braunton, 185 Stevenson, San Francisco.
COST, $3000

FRAME SHOP
(1496) S FOLSOM 91 W Main. One-story frame boiler shop.
Owner.....Main Street Iron Works, Main & Folsom, S. F.
Architect ...None.
Contractor..Neal A. McLean Co., 525 Chronicle Bldg., S. F.
COST, $2500

ALTERATIONS
(1497) S STEVENSON 95 W Third. Reinforced concrete floor, concrete partitions, etc.
Owner.....Universal Elec. & Gas Co., Claus Spreckels Bldg., San Francisco.
Architect ...J. R. Miller, 213 Lick Bldg. San Francisco.
Day's work. COST, $1400

FRAME DWELLING
(1498) S KIRKHAM 75 W 47th Ave. One and one-half-story and basement frame dwelling.
Owner.....Mrs. C. Jackson, 4340 Kirkham, San Francisco.
Architect ...None.
Contractor..T. H. Parry, 222 Raymond Ave., San Francisco.
COST, $1500

FRAME DWELLING
(1499) W ALABAMA 25 N Mullen. One-story and basement frame dwlg.
Owner.....Mario Delorenzi, 1629 Alabama, San Francisco.
Architect ...None.
Contractor..G. Sangiacomo, 458 9th Ave., San Francisco.
COST, $2000

(1500) N HOWARD 387-6 E Sixth. Two story and basement brick (2) flats and store.
Owner.....Ralph Brown, 1273 Vallejo, San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Contractor..M. A. Little, 1347 4th Ave., San Francisco.
COST, $7000

(1501) SEA CLIFF, Lot 67. Two-story and basement frame residence.
Owner.....Mrs. Geo. W. Kelham, 30 Florence, San Francisco.
Architect ...Geo. W. Kelham, 305 Sharon Bldg., San Francisco.
Day's work. COST, $15,000

ELEVATORS
(1502) SE TREAT AVE & TWENTY-first. Elevators for five-story garage addition to west of present bldg.
Owner.....Ford Motor Co., Premises.
Architect ...Albert Kahn and Ernest Wilby, Detroit, Mich.
Contractor..Otis Elevator Co., Beach & Stockton, San Francisco.
Filed May 15, '16. Dated Mar. 27, '16.
85% of work upon estimates made by Architect .....
15% within 30 days after completion .....
TOTAL COST, $5439
Bond, $2720. Surety, National Surety Co. Limit, 85 days. Forfeit, none. Specifications only filed.

HARDWARE
(1503) N BROADWAY 125 W Broderick N 137-6xW 55. Hardware for bldg.
Owner.....Julia de L. Welch, 244 California, S. F. & San Mateo.
Architect ...Willis Polk & Co., Hohart Bldg., San Francisco.
Contractor..The Palace Hardware Co., 581 Market, San Francisco.
Filed May 15, '16. Dated May 2, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1500
Bond, $750. Surety, Fidelity & Deposit Co. of Maryland. Limit, Nov. 1, 1916. Forfeit, none. Plans only filed.

FRAME APARTMENTS
(1504) E JULIAN AVE 155 S 15th S 30xE 84. All work for three-story frame apartments.

er.....Marie Metter.
itect...L. M. Weismann & Philipp Schwerdt, Pacific Bldg., San Francisco.
tractor..Emil Ichters, 75 College Ave., San Francisco.
d May 15, '16. Dated May 12, '16.
ame up to roof.....$1850
rown coated, rough plumbing
d rough electric work in..... 1650
hite coated, sash glazed and
ing and standing finish on.... 1400
ompleted and accepted..... 1400
sual 35 days..... 2100
TOTAL COST, $8400
d, $4200. Sureties, A. J. Smith and C. Bell. Limit, 100 days. Forfeit, e. Plans and specifications filed.

AME RESIDENCE
5) W JONES 167-6 S Green S 25x 110. Concrete, lumber, mill work, astering, plumbing, tinning, electrical work, etc., for two-story and asement frame residence.
ner.....A. S. Musante, 325 Columbus Ave., San Francisco.
hitect...Foulkes & Hildebrand, Crocker Bldg., S. F.
tractor..K. H. McKenzie & Co., 2783 McAllister, San Francisco.
d May 15, '16. Dated May 11, '16.
ame up and roof on.....$1892
rown coated 1392
ompleted and accepted..... 1393
sual 35 days..... 1392
TOTAL COST, $5569
d, $2790. Sureties, L. M. Zimmerman Jas. H. Pinkerton. Limit, 90 days. feit, $5. Plans and specifications d.

ISH BASEMENT
06) NE COLUMBUS AVE AND allejo E 77-8¼xN 137-6. All work equired in finishing basement of uilding known as Saint Francis hurch.
ner.....Roman Catholic Archbishop of S. F., Cpn., 1100 Franklin, San Francisco.
hitect...Chas. J. Devlin, Pacific Bldg., San Francisco.
ntractor..Masow & Morrison, Monadnock Bldg., S. F.
ed May 15, '16. Dated May 9, '16.
On 1st and 15th of each month commencing June 1, 1916.....75%
Usual 35 days..... 25%
TOTAL COST, $4700
nd, $2350. Surety, U. S. Fidelity Co. mit, 60 days after notification. Fort, $10. Plans and specifications filed

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AME DWELLING
507) E FIFTEENTH AVE 258-7½ N Anza. Two-story and basement frame dwelling.
vner.....Wilhelmina Bahrs, 635 17th Ave., San Francisco.
chitect...None.
ntractor..William Bahrs, 635 17th Ave., San Francisco.
COST, $3000

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508) NE EIGHTH AND MINNA. Alter store.
wner.....John P. Hare, 139 8th, S. F.
rchitect...None
ay's work. COST, $400

RAME DWELLING
509) W MOSCOW 175 N Italy. One story and basement frame dwelling.
wner.....W. W. Doerr, 750 Moscow, San Francisco.
rchitect...None.
ay's work. COST, $1500

ALTERATIONS
(1510) W BRYANT 54-5 N Army. Alter store.
Owner.....M. Lobrovich, 2876 Bryant, San Francisco.
Architect...None.
Day's work. COST, $400

MARQUISE
(1511) NO. 1050 GRANT AVE Erect marquise.
Owner.....Sam Lung & Co., Prem.
Architect...None.
Contractor..Guilfoy Cornice Works, 229 8th, San Francisco.
COST, $500

FRAME DWELLING
(1512) S GENEVA 228 E Paris. One-story and basement frame dwelling.
Owner.....Gussie A. Meyer, 53 Walter San Francisco.
Architect...None.
Contractor..Henry L. Meyer, 53 Walter San Francisco.
COST, $1800

ALTERATIONS
(1513) NO. 110 BOSWORTH. Alter residence.
Owner.....J. J. Burk, Premises.
Architect...A. J. Barnett, 77 College Ave., San Francisco.
Contractor..Ben Altoff, 75 College Ave San Francisco.
COST, $500

FRAME SHOP
(1514) NO. 2125 BUSH. One-story frame flower shop.
Owner.....M. Segal, Premises.
Architect...None.
Contractor..H. Abrahams, 138 Hale, San Francisco.
COST, $400

FRAME MARKET
(1515) SW IRVING & THIRTIETH Ave. One-story frame market.
Owner.....Fernando Nelson, 2701 Lincoln Way, S. F.
Architect...None.
Day's work. COST, $1000

FRAME DWELLING
(1516) W TWENTY-EIGHTH AVE 77 N Irving. Two-story and basement frame dwelling.
Owner.....Fernando Nelson, 2701 Lincoln Way, S. F.
Architect...None.
Day's work. COST, $2500

FRAME DWELLING
(1517) W TWENTY-EIGHTH AVE 52 N Irving. Two-story and basement frame dwelling.
Owner.....Fernando Nelson, 2701 Lincoln Way, S. F.
Architect...None.
Day's work. COST, $2500

FRAME DWELLING
(1518) W TWENTY-EIGHTH AVE 27 N Irving. Two-story and basement frame dwelling.
Owner.....Fernando Nelson, 2701 Lincoln Way, S. F.
Architect...None.
Day's work. COST, $2500

BRICK APARTMENTS
(1519) S CALIFORNIA 65 W Gough. Four-story and basement brick Class "C" (14) apartments.
Owner.....Martin S. Show, 1240 Bush, San Francisco.
Architect Albert Schroepfer, Foxcroft Bldg., San Francisco.
Day's work. COST, $50,000

FRAME COTTAGE
(1520) E TWENTY-FOURTH AVE 250 N Judah. One-story and basement frame cottage.
Owner.....William Leach, 1559 9th Ave., San Francisco.
Architect...C. O. Clausen, Hearst Bldg., San Francisco.
Day's work. COST, $2500

FRAME RESIDENCE
(1521) S BALBOA 94 W 24th Ave W 26xS 192 m or l. All work for two-story and basement frame residence.
Owner.....James B. Kidd, 53 Palm Ave, San Francisco.
Architect...Alfred H. Jacobs, 110 Sutter, San Francisco.
Contractor..Ira W. Coburn, 180 Jessie, San Francisco.
Filed May 16, '16. Dated May 11, '16.
Entire frame up.....$1350
1st coat plaster on 1350
Completed 1350
Usual 35 days..... 1350
TOTAL COST, $5400
Bond, $5400. Surety, National Surety Co. Limit. Sept. 11, 1916 Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1522) N VALLEJO 124-6 E Van Ness Ave 24xN 122-6. All work for two-story frame residence.
Owner.....Emilio Olcese, 529 Front, San Francisco.
Architect...None.
Contractor..Liebert & Martinelli, 195 Lexington Ave., S. F.
Filed May 16, '16. Dated Mar. 25, '16.
Frame up $1125
Brown coated 1125
Completed and accepted..... 1125
Usual 35 days..... 1125
TOTAL COST, $4500
Bond, $2250. Sureties, Jno. Banachowski and Pilade Carmignani. Limit, 90 days. Forfeit, $3. Plans and specifications filed.
NOTE:—1st report Apr 18th. No. 1135.

ALTERATIONS
(1523) N HAYES 192-6 E Fillmore E 56-10x137-6. All work except wall beds, fixtures, linoleum and shades for alterations and additions building into apartment house.
Owner.....R. K. Smith, 2600 Jackson, San Francisco.
Architect...Coxhead & Coxhead, Hearst Bldg., S. F.
Contractor..B. S. Davis.
Filed May 16, '16. Dated May 16, '16.
33⅓% of work done.....$2693.50
66⅔% of work done..... 2693.50
Completed and accepted..... 2693.50
Usual 35 days..... 2693.50
TOTAL COST, $10,774.00
Bond, none. Limit, 100 days. Forfeit, $5. Plans and specifications filed.
NOTE:—1st report May 11th, No. 1377.

PLUMBING
(1524) E THIRD 125 N Townsend N 150xE 160. Rough and finish plumbing for five-story warehouse.
Owner.....Clinton Construction Co., 140 Townsend, S. F.
Architect...George Wagner, 518 Hearst Bldg., San Francisco.
Contractor..S. W. Band, 580 Valencia, San Francisco.
Filed May 16, '16. Dated Apr. 29, '16.
On 15th of each month..... 75%

Usual 35 days..... 25%
TOTAL COST, $2125
Bond, $1802.50. Surety, U. S. Fidelity & Guaranty Co. Limit, Sept. 1, 1916. Forfeit, $25. Plans and specifications filed.

(1525) ELECTRICAL WORK ON above.
Contractor..Rex Elec. & Constr. Co., 1174 Sutter, San Francisco.
Filed May 16, '16. Dated Apr. 26, '16.
Payments same as above.....
TOTAL COST, $4600
Bond, $2300. Surety, American Surety Co. Limit, Sept. 1, 1916. Forfeit, $25. Plans and specifications filed.

(1526) THREE STANDARD FREIGHT elevators and 1 side walk lift on above.
Contractor..Otis Elevator Co., Beach & Stockton, San Francisco.
Filed May 16, '16. Dated May 4, '16.
Payments same as above.....
TOTAL COST, $6100
Bond, $3050. Surety, National Surety Co. Limit, Sept. 1, 1916. Forfeit, $25. Plans and specifications filed.

(1527) AUTOMATIC SPRINKLER system on above.
Contractor..Pacific Fire Extinguisher Co., 507 Montgomery, S. F.
Filed May 16, '16. Dated Apr. 22, '16.
Payments same as above.....
TOTAL COST, $8500
Bond, $4250. Surety, Hartford Accident & Indemnity Co. Limit, Sept. 1, 1916. Forfeit, $50. Plans and specifications filed.

FRAME COTTAGE
(Correction in work)
(1528) SE ELLINGTON (Porter Ave) 133-4 SW Foote Ave SW 26-8xSE 120. All work except grading, light fixtures, and shades for one-story and basement frame cottage.
Owner.....Onorato Ghiselli.
Architect...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor, L. Dioguardi, 715 Garden, San Francisco.
Filed May 16, '16. Dated May 4, '16.
Frame up, rafters and roof sheathing on $555
Brown coated 555
Completed and accepted..... 555
Usual 35 days..... 560
TOTAL COST, $2225
Bond, none. Limit, 60 days after completion of grading. Forfeit, $5. Plans and specifications filed.

ADDITION
(1529) SW TREAT AVE AND 21ST. Composition roofing for five-story garage addition to west of present building.
Owner.....Ford Motor Co., Premises.
Architect...Albert Kahn, Detroit, Mich
Contractor..Clinton Constr. Co., 140 Townsend, San Francisco.
Sub-Contractor..The Paraffine Paint Co., 34 1st, San Francisco.
Filed May 16, '16. Dated Apr. 25, '16.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $780
Bond, $390. Surety, National Surety Co. Limit, forfeit, none. Plans and specifications, none.

(1530) COPPER AND GALVANIZED iron work on above.
Sub-Contractor, Percy Sheet Metal Works, 430 Guerrero, S. F.
Filed May 16, '16. Dated Apr. 14, '16.
Payments same as above.....
TOTAL COST, $1050
Bond, $525. Surety, Hartford Accident & ndemnity Co. Limit, forfeit, plans and specifications, none.

(1531) GRANITE WORK ON ABOVE.
Sub-Contractor..Raymond Granite Co., 3 Potrero Ave., S. F.
Filed May 16, '16. Dated Apr. 25, '16.
Payments same as above.....
TOTAL COST, $1050
Bond, $525. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, plans and specifications, none.

(1532) SPRINKLER WORK ON ABOVE
Sub-Contractor..The Turner Co., 278 Natoma, San Francisco.
Filed May 16, '16. Dated Apr. 5, '16.
Payments same as above.....
TOTAL COST, $1695
Bond, $1695. Surety, Massachusetts Bonding & Investment Co. Limit, two weeks after roof slab stripped. Forfeit, none. Plans and specifications, none.

(1533) PLUMBING ON ABOVE.
Sub-Contractor..S. W. Band, 580 Valencia, San Francisco.
Filed May 16, '16. Dated Apr. 19, '16.
Payments same as above.....
TOTAL COST, $4190
Bond, $2095. Surety. U. S. Fidelity & Guaranty Co. Limit, 5 days after notification. Forfeit, plans and specifications, none.

(1534) PAINTING ON ABOVE
Sub-Contractor..Harry Maundrell, 320 Hayes, San Francisco.
Filed May 16, '16. Dated Apr. 19, '16.
Payments same as above.....
TOTAL COST, $4750
Bond, $2375. Surety, Aetna Accident & Liability Co. Limit, forfeit, plans and specifications, none.

(1535) TERRA COTTA TO BE DEliverred at building.
Sub-Contractor..N. Clark & Sons, 116 Natoma, San Francisco.
Filed May 16, '16. Dated Apr. 6, '16.
Payments same as above.....
TOTAL COST, $5570
Bond, $2785. Surety, Massachusetts Bonding & Insurance Co. Limit, 55 days after receipt of drawings. Forfeit, plans and specifications filed.

(1536) ELECTRICAL WORK ON above.
Sub-Contractor..Pacific Fire Extinguisher Co., 507 Montgomery, San Francisco.
Filed May 16, '16. Dated Apr. 5, '16.
Payments same as above.....
TOTAL COST, $8300
Bond, $4150. Surety, Royal Indemnity Co. Limit, forfeit, plans and specifications, none.

FRAME RESIDENCE
(1537) E Alabama 25 N Mullen N 25x E 80. All work for one-story and basement frame residence.
Owner. ...Marco and Rosina De Lorenzi, 1629 Alabama, S. F.
Architect...None.
Contractor..G. Sangiacomo, 458 9th Ave., San Francisco.
Filed May 17, '16. Dated May 17, '16.
Frame up and roof on. $600
1st coat plaster on.....6
Completed and accepted..... 60
Usual 35 days..... 20
TOTAL COST, $200
Bond, none. Limit, 90 days. Forfei none. Plans and specifications filed.
NOTE:—1st report May 16th, No. 1499.

CLASS "C" CHURCH
(1538) SE CUMBERLAND & DOLORE S 89 E 105 S 25 E 25 N 114 W 13 M B 77. Carpenter, mill, tin an galvanized iron, roofing, glazing, sk lights, rough hardware, etc., for on story and basement, mezzanine an gallery Class "C" edifice.
Owner.....Second Church of Chris Scientist, Incorporated.
Architect...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..W. G. McDiarmid, 394 Fai Oaks, San Francisco.
Filed May 17, '16. Dated May 16, '16.
On 1st and 15th of each month 75
Usual 35 days..... 25
TOTAL COST plus 5% for contracto not to exceed $8850.
Bond, $4440. Sureties, Geo. O. Perr and Lawrence Rath. Limit, 50 day after completion of brick work. Forfeit, $10. Plans and specifications filed

FRAME DWELLING
(1539) W EDGEWOOD AVE 117-6 Sunset. Two-story and basemen frame dwelling.
Owner.....W. G. Gilmour, 803 Humboldt Bank Bldg., S. F.
Architect...Rousseau & Rousseau, 11 Sutter, San Francisco.
Days work. COST, $700

ELECTRIC SIGN
(1540) — SPEAR AND HOWARD Electric roof sign.
Owner.....J. A. Folger & Co., Prem.
Architect...None.
Contractor..Novelty Elec. Sign Co. 165 Eddy, San Francisco.
COST, $100

ELECTRIC SIGN
(1541) NO. 1013 MARKET. Electric sign.
Owner.....Friedman & Cohnrich Premises.
Architect...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $500

REPAIRS
(1542) NOS. 30 TO 34 WAYNE PLACE Repair fire damage.
Owner.....G. C. Burr, 30 Wayne Place San Francisco.
Architect...None.
Contractor..B. Becaas, 915 Pacific, S. F.
COST, $400

FRAME DWELLING
(1543) N HOLLISTER 150 E Ingalls. One-story and basement frame dwlg.
Owner.....Herbert Sumner, 1090 Hollister, San Francisco.
Architect...None.
Day's work. COST, $1500

FRAME RESIDENCE
(1544) E TWENTY-FOURTH AVE 75 N Anza. Two-story and basement frame residence.
Owner.....Ernest E. Dunn, 329 23rd Ave., San Francisco.
Architect...None.
Day's work. COST, $2895

ALTERATIONS
(1545) NE LAKE & SEVENTEENTH Ave. New oak floors, minor alterations to dwelling.
Owner.....Mrs. Schleef, 1550 Lake, San Francisco.
Architect ...None.
Contractor..J. B. Glunz, 527 Balboa, San Francisco.
COST, $400

ALTERATIONS
(1546) NO. 1366 FORTY-SEVENTH Ave. Alter dwelling.
Owner.....R. H. Van Horn, Premises
Architect ...None.
Contractor..Wm. Haskins, 2023 Anza, San Francisco.
COST, $400

FRAME MARKET
(1547) N ELLIS 87-6 W Fillmore. One-story frame market.
Owner.....Stockholm & Allyn, 678 Monadnock Bldg., S. F.
Architect ...None.
Day's work. COST, $4000

ALTERATIONS
(1548) NO. 141 STEINER. Alter store
Owner.....E. F. Schmidt, Premises.
Architect ...None.
Day's work. COST, $450

REPAIRS
(1549) NO. 206 FOURTH. Repair fire damage.
Owner.....Dr. T. R. Barney, 2711 Dana, Berkeley.
Architect ...None.
Day's work. COST, $450

ALTERATIONS
(1550) NE CHATTANOOGA & 23RD. Alter flats.
Owner.....Jas. McSheehy, 1147 Dolores, San Francisco.
Architect ...None.
Contractor..McSheehy Bros., 73 Langton, San Francisco
COST, $800

SIDEWALKS, ETC.
(1551) E THIRD, bet. Fourth and 18th All work for bituminous rock side walks.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect .. None.
Contractor..Fay Improvement Co., Phelan Bldg., S. F.
Filed May 18, '16. Dated May 9, '16. Payable 35 days after completion
TOTAL COST, Approximately 16,200 sq. ft. at .0523c per sq. ft.
Bond, none. Limit, 60 days after beginning. Forfeit, none. Plans and specifications filed.

FRAME STORE AND FLAT
(1552) E MISSION 100 S Excelsior S 25xE 83. All work for two-story frame store and flat building.
Owner.....N. Paglientini, 4523 Mission, San Francisco.
Architect .. None.
Contractor..A. De Benedetti, 20 Cotter, San Francisco.
Filed May 18, '16. Dated May 15, '16.
Building roofed $875
Brown coated 875
Completed and accepted..... 875
Usual 35 days..... 875
TOTAL COST, $3500
Bond, $1750. Sureties, Pio De Martini and Jno. Gnecco. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1553) NE COR. CALIFORNIA AND Divisadero; No. 2796 California. All work for alterations and additions to store.
Owner.....John P. Hart, 2800 California, San Francisco.
Architect ...E. H. Denke, 1317 Hyde, San Francisco.
Contractor..F. G. Denke, 1445 11th Ave., San Francisco.
Filed May 18, '16. Dated ——.
Store floor laid.....$415
Concrete laid in basement and plumbing completed 415
Show windows built, interior wood work completed..... 415
Usual 35 days..... 415
TOTAL COST, $1660
Bond, $830. Surety, E. H. Denke. Limit, 60 days. Forfeit, $2. Plans and specifications filed.

PAVEMENT, ETC.
(1554) FIFTEENTH, ALABAMA, Florida and Alameda. All work for asphalt paving.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..The Fay Improvement Co., Phelan Bldg., S. F.
Filed May 18, '16. Dated Mar. 5, '16. Payments not given.....
TOTAL AREA of pavement to be constructed, 34,000 sq. ft. at 8.2c per sq. foot.
Bond, limit, forfeit, none. Plans and specifications filed.

APARTMENTS
(1555) S PAGE 175 W Webster W 25x S 137-6 W A 296. All work except electric fixtures, shades, finish hardware and wall beds for three-story and basement apartment house.
Owner.....Bessie Selix.
Architect ...Rousseau & Roussea, Inc., 110 Sutter, San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed May 18, '16. Dated Apr. 24, '16.
Frame up $3000
Brown coated 3000
Completed and accepted..... 3050
Usual 35 days..... 3000
TOTAL COST, $12,050
Bond, $6025. Sureties, J. H. McCallum and E. O. Benner. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1556) NO. 725 MARKET. Erect partition, tile floors and walls.
Owner.....Boos Bros. Cafeteria, 1051 Market, San Francisco.
Architect ...Plummer & Feil, 601 Bancroft Bldg., San Francisco.
Day's work. COST, $5000

FRAME FLATS
(1557) NW CABRILLO AND NINTH Ave. Three-story and basement frame (6) flats.
Owner.....Elizabeth Peterson, 642 10th Ave., San Francisco.
Architect ...None.
Contractor..Gustav Peterson, 642 10th Ave., San Francisco.
COST, $10,000

FRAME STORE AND FLAT
(1558) SW VERMONT AND 18th. One-story and basement frame store and flat.
Owner.....P. J. Barich, 326 Utah, San Francisco.
Architect None.
Contractor. J. H. Randall, 1205 10th Ave., San Francisco.
COST, $3000

ALTERATIONS
(1559) NO. 1532 SANCHEZ. New foundation, rat proofing and alter flats.
Owner.....J. W. Daley, Premises.
Architect ...None.
Contractor..Callaghan Bros., 900 Clayton, San Francisco.
COST, $2500

FRAME RESIDENCE
(1560) W ARLINGTON 50 N Mateo. One-story and basement frame residence.
Owner.....C. G. Bemis, 2056 Mission, San Francisco.
Architect ...G. H. Old, 1512 Castro, San Francisco.
Day's work. COST, $1900

ADDITION
(1561) NO. 1541 HOWARD. Add to present frame building.
Owner.....Golden Gate Iron Works, Premises.
Architect ...None.
Day's work. COST, $950

FRAME STUDIO
(1562) NO. 840 FORTY-FIFTH AVE. One-story frame studio.
Owner.....Arthur Putnam, Premises.
Architect ...None.
Day's work COST, $500

FRAME DWELLING
(1563) S OCEAN 91-4½ W Cayuga. Two-story and basement frame dwlg.
Owner.....Watson A. Titus, 302 Brazil San Francisco.
Architect ...None.
Day's work. COST, $1900

FRAME DWELLING
(1564) S ARMY 25 W Bryant. One and one-half-story and basement frame dwelling.
Owner.....M. McDonough, 90 St Mary's Ave. and L. Costello 93 College Ave., S. F.
Architect ...None.
Day's work. COST, $1400

REPAIRS
(1565)NO. 2715 FILBERT. Repair fire damage.
Owner.....H. S. Thomson, Premises.
Architect ...None.
Contractor..Wm. H. Grahn, 2840 Bryant, San Francisco.
COST, $500

FRAME STORE
(1566) N CLEMENT 132-6 W 31st Ave. One-story frame store.
Owner.....Mrs. F. E. Buckland, 2423 Washington, S. F.
Architect ...None.
Day's work. COST, $1000

ALTERATIONS
(1567) W POLK 140 N California. Alter theatre.
Owner.....Chas. Frohman, Polk near California, S. F.
Architect ...N. W. Sexton, Merchants National Bank Bldg., S. F.
Day's work. COST, $500

ALTERATIONS
(1568) NO. 863 GREENWICH. Concrete floor, walks, etc.

Owner.....Miss A. Hermann, 1105 Parker Ave., Alameda.
Architect...None.
Contractor..Cazzaretto & Co., 2503 Franklin, San Francisco.
COST, $400

FRAME RESIDENCE
(1569) LOT "A" LINCOLN MANOR. Two-story and basement frame residence.
Owner.....S. A. Born Bldg. Co., 660 Market, San Francisco.
Architect...None.
Contractor..S. A. Born Bldg. Co., 660 Lincoln Manor, S. F.
COST, $4400

FRAME DWELLING
(1570) W EDINBURGH 150 N Excelsior. One-story and basement frame dwelling.
Owner.....Ward C. Brown, 2945 Harrison, San Francisco.
Architect...None.
Day's work. COST, $1800

FRAME DWELLING
(1571) W EDINBURGH 125 N Excelsior. One-story and basement frame dwelling.
Owner.....Ward C. Brown, 2945 Harrison, San Francisco.
Architect...None.
Day's work. COST, $1800

FRAME DWELLING
(1572) W EIGHTEENTH AVE 75 S Balboa. Two-story and basement frame dwelling.
Owner.....A. V. Anderson, 1604 10th Ave., San Francisco.
Architect...None.
Day's work. COST, $2600

FRAME DWELLING
(1573) W EIGHTEENTH AVE 50 S Balboa. Two-story and basement frame dwelling.
Owner.....A. V. Anderson, 1604 10th Ave., San Francisco.
Architect...None.
Day's work. COST, $2600

FREIGHT SLIP
(1574) E END TWENTY-FIFTH ST. All work for piling and replacing 208 piles for spring line; 22 Douglas fir brace piles; 25,000 feet B M of 4 inch Oregon pine lumber for sheathing and chocks, etc., for freight slip.
Owner.....Frank G. Drum and Warren Olney Jr., Receivers Western Pacific Railway Co., Mills Bldg., S. F.
Architect...None.
Contractor..Hyde Harjes & Co., 110 Market, San Francisco.
Filed May 19, '16. Dated May 16, '16.
On completion 75%
36 days after..... 25%
TOTAL COST, spring line piles including pulling present piles, $25.15 each; brace piles, $48 each; lumber for sheathing and chocks, $34 per M feet B M.
Bond, $3600. Surety, Massachusetts Bonding & Insurance Co. Limit, 40 days after commencement. Forfeit, none. Plans and specifications, none.

LEASES.

May 18, 1916—NO. 1833 O'FARRELL. J B Cabana to Albert Rossi and Lorenzo Isala. 2 years. $1320.
May 18, 1916—N EIGHTEENTH 25 E Diamond E 25xN 75. Claude De Beo to Louis Stagi and Vincent Barsotti. 5 years. $35 per month.
May 18, 1916—APARTMENT NO. 6, Jordan Court, No. 3408 Geary. Erma A Waterman to Fred W Kirske. 2 years. $1320.
May 12, 1916—NO. 1401 CLEMENT. S Petrucci and E Puccini to Henry Zelinsky. March 1, 1921. $20 per month, etc.
May 16, 1916—S SUNNY DALE AVE 1430 W Schwerin W 3432 m or l 174-3 W 66 N 288. Wm H Crim Jr to Geo Dietterle. 10 years. $6000.
May 16, 1916—NO. 915-A GRANT AVE. Suey Wing Benevolent Ass'n to Suey Sing Tong Benevolent Society. 10 years. $50 per month.
May 16, 1916—NO. 2219 FILLMORE. Ellen Haley to Owl Tailors, Aaron Sidlowski. 5 years. $2400.
May 17, 1916—SW FILLMORE AND Sacramento. Geo B Burton to Joseph Orsi. 5 years. $9000.

INCORPORATIONS.

San Francisco Taxi Car Co. Capital Stock, $25,000; subscribed, $30; shares, $10 each. Directors—E. J. White, C. K. Karst and F. J. Herold, 1 share each. Place of business, San Francisco.

NOTICE OF NON-RESPONSIBILITY.

May 17, 1916—S GROVE 201-2½ E Van Ness Ave E 24 S 80 E 24 S 40 W 48 N 120. Catherine M Ruddoch as to improvements on leased property.....
May 12, 1916—W STEINER 130 S Waller S 25xW 91-3. Cecilia A Brunwin as to improvements on leased property .....

COMPLETION NOTICES.

San Francisco

RECORDED ACCEPTED
May 11, 1916—S BUSH 59 E Van Ness Ave 25x31. F W Noltemeier to Wm Martin.....May 10, 1916
May 11, 1916—S GEARY 83-6 E Leavenworth E 27xS 83-6. W L Heise to Schroeder Bros..May 1, 1916
May 11, 1916—W TWENTY-FIFTH Ave 300 S Geary S 25xW 100. H P Otten to whom it may concern. .....May 10, 1916
May 12, 1916—NW TWELFTH AND Folsom 43x75. B G McDougall (as agent Arthur Arlett) to whom it may concern .....May 6, 1916
May 12, 1916—E LYON 82-6 N Post N 55xE 110. Mrs Georgiana Shea to E A Reynolds.....May 12, 1916
May 12, 1916—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern.May 6, 1916
May 12, 191..—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern..May 9, 1916
May 12, 1916—SW SEVENTH 175 — Harrison — 125 SW 85 NW 25 NE 5 NW 75 SW 80 NW 25 NE 160. Workman Packing Co to Kiernan & O'Brien.....May 11, 1916
May 12, 1916—E TWENTY-FOURTH Ave 100 N Anza N 25xE 120. Frank E Ruggles to W Davies..May 12, 1916
May 12, 1916—W THIRTY-THIRD AV 100 N Balboa (B) 25x120. W F Nilsson to whom it may concern .....May 11, 1916
May 13, 1916—NW MASON AND Sutter W 45xN 137-6. Chas Schlessinger to O C Holt.....May —, 1916
May 15, 1916—NW CALIFORNIA & Van Ness Ave W 159-4xN 69-3. Pope Estate Co to Geo A Bos..... .....May 10, 1916
May 15, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to F W Snook Co.. .....May 10, 1916
May 15, 1916—NE TWENTY-FIRST Ave 225 S California S 50xE 120. H C Keenan to whom it may concern .....April 10, 1916
May 15, 1916—LOT 16 BLK 6521 Treat Ave., bet. 24th and 25th; W Treat Ave 125 N 25th N 25xW 112-6. Walter Phillips to whom it may concern.....May 10, 1916
May 15, 1916—E SEVENTH AVE 100 N Geary N 25xE 120. Jos C Kirby to whom it may concern.May 15, 1916
May 15, 1916—S GREEN 132-6 E Baker 25x137.6. Susanne G McEwen to McKenzie & Prough..May 8, 1916
May 16, 1916—S POST 63-6 W Buchanan W 24xS 87-6. Tillie and I Weinstein to Bay City Bldg Co.. .....May 13, 1916
May 16, 1916—W VERMONT 175 S 25th S 25xW 100. Richard A Downing to whom it may concern..... .....May 16, 1916
May 16, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. A Chazel to G Cavaglieri.....May 10, 1916
May 16, 1916—SW QUESADA AVE 290-7½ SE **from above** — 28x100. Emilio E Ambrosetti to Frank Rossi. .....May 11, 1916
May 17, 1916—W MISSION 138-6 N 17th N 25xW 100. James C Sellers to D W Ross & Co.....May 9, 1916
May 18, 1916—S EDDY 137-6 W Jones — 25 S 77-6 E 25 N 77-6. Alvin C and Estelle R Selig to Monson Bros.....May 15, 1916
May 19, 1916—E TWELFTH AVE 225 S Cabrillo. H C Christiansen to H C Christiansen.....May 19, 1916
May 19, 1916—COMG. 108 S CASSELLI Ave and 314-8 W Douglass 25x95-2¼. H E and T W MacArthur to whom it may concern..May 18, 1916
May 19, 1916—SW BROADWAY & Jones 22-9x60. Edward J Duffey to J S Malloch.....May 18, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT
May 13, 1916—N PAGE 165-7½ W Central Ave W 44-4½xN 137-6. Richmond Sheet Metal Works vs Carrie Green and James P Fletcher $196
May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. M Leutholdt & Co vs Carrie and D H Green and James P Fletcher....$290
May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Veyhle & Collins vs Caroline Green and James P Fletcher.....$1305.43
May 15, 1916—E FORTY-SEVENTH Ave 215 N Cabrillo N 25xE 120. Schwarz & Gottlieb vs A McBarnes $41.20
May 16, 1916—N BUSH 137-6 W Buchanan W 34-4½xN 137-6. W Knightly and R Proctor (Co-partners) vs Gertrude C Limae.....$93
May 17, 1916—W NINTH AVE 260 S California S 25xW 120. I Weinberg vs Harry Blendes and Jacob Finkelstein $250

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1201	Sturges	Christensen	16000
1202	Hartman	Brown	1200
1203	Watkinson	Jones	1000
1204	Lazear	Jones	5000
1208	Langalos	Corbett	400
1209	Miller	Corbett	500
1210	Strickan	Sommarstrom	600
1211	Simonis	Wieben	1200
1215	Lazear	Jones	4000
1216	Trowette	Nichols	1175
1217	Prentiss	Andersen	1000
1220	Maasberg	Maasberg	3000
1221	Sullivan	Gilman	1080
1222	Southers	Cooke	1000
1223	Weyreck	Griffin	1000
1224	Devinney	Devinney	1500
1225	Helmuth	Kaler	1685
1227	Wood	Peterson	4800
1228	Archambeault	Hopper	3000
1229	App	Burnett	5500
1230	Piedmont Bldg.	Owner	16000
1233	Cuckovich	Perona	400
1234	Kellogg	Kellogg	1600
1235	Anderson	Jackson	1700
1236	Wilson	Wilson	1450
1237	Willchoff	Pearce	1600
1238	Same	Same	1600
1246	Johnson	Maganini	6000
1249	Jurgens	Powell	50270
1255	E. & A.	Owner	2000
1256	Kissell Kar	Hahan	400
1257	Bertoldy	Bertoldy	600
1258	Ferguson	Wells	1500
1259	Goveia	Travasso	2500
1260	Cutter	Rutherford	3300
1261	Nakaskima	Owner	1200
1262	Butterfield	Barker	400
1265	Chambers	Chambers	1750
1266	Gallo	Johnson	2500
1267	Armino	Uccello	1000
1268	Greenfield	Rose	2100
1269	Arnstein	Palmer	19950

DWELLING
(1201) FOOTHILL BLVD & 106TH Ave., Oakland. Two-story 9-room dwelling.
Owner.....V. K. Sturges, 26th and Union, Oakland.
Architect ...M. C. Couchot, 110 Sutter, San Francisco.
Contractor..Christensen Bros., 565 16th, Oakland.
COST, $16,000

DWELLING
(1202) S HILLSIDE 250 E 90th Ave., Oakland. One-story 5-room dwlg.
Owner.....H. F. Hartman.
Architect ...None.
Contractor..Tom Brown, 1642 89th Ave., Oakland.
COST, $1200

ALTERATIONS
(1203) NO. 355 TWENTY-EIGHTH, Oakland. Alterations.
Owner.....Mrs. J. H. Watkinson, Premises.
Architect ...None.
Contractor..F. J. Jones, 1217 Webster, Oakland.
COST, $1000

APARTMENTS
(1204) N OAK GROVE AVE 305 W College Ave., Oakland. Two-story 12-room apartments.
Owner.....Mrs. M. E. Lazear, Marysville, Cal.
Architect ...None.
Contractor..Jones Bros., 5829 Lawton Ave., Oakland.
COST, $5000

DWELLING
(1207) E LOCKSLEY AVE 150 S Hudson (rear), Oakland. One-story three room dwelling.
Owner.....J. W. and Mrs. B. Carlen, 5370 Locksley Ave., Okd.
Architect ...None.
Contractor..J. W. Carlen, 5370 Locksley Ave., Oakland.
COST, $500

ALTERATIONS
(1208) NO. 1006 CLAY, Oakland. Alterations.
Owner.....John Langalos, Premises.
Architect ...None.
Contractor..Corbett & Bayless, 1110 Franklin, Oakland.
COST, $400

ALATRATIONS
(1209) NO. 1542 BROADWAY, Oakland. Alterations.
Owner.....J. Miller & Co., Premises.
Architect ...None.
Contractor..Corbett & Bayless, 1110 Franklin, Oakland.
COST, $500

ALTERATIONS
(1210) NO. 1719 CASTRO, Oakland. Alterations.
Owner.....Mrs. Emilia Strickan, 202 E-12th, Oakland.
Architect ...None.
Contractor..Sommarstrom Bros., 202 E-12th, Oakland.
COST, $600

DWELLING
(1211) W MINNESOTA AVE 100 S Harper, Oakland. One-story 4-room dwelling.
Owner.....C. Simonis, 2025 Minnesota Ave., Oakland.
Architect ...None.
Contractor..Alex C. Wieben, 1461 Alice, Oakland.
COST, $1200

FRAME APARTMENTS
(1215) N OAK GROVE AVE 306.18 W College Ave W 50xN 130, Oakland. All work for two-story frame apartment house.
Owner.....Mrs. Mary E. Lazear, Marysville, Yuba Co., Cal.
Architect ...None.
Contractor..Jones Bros., 5829 Lawton, Oakland.
Filed May 15, '16. Dated May 8, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $4000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.
NOTE:—1st report May 13th, No. 1204

(1216) W NINETY-THIRD AVE 75 N "A," Oakland. One-story 5-room dwlg
Owner.....Victor J. Trowette, E-14th Oakland.
Architect ...None.
Contractor..H. J. Nichols, 1325 93rd Ave., Oakland.
COST, $1175

ADDITION
(1217) NOS 1011-17 SEVENTH AVE., Oakland. Two-story addition.
Owner.....Chas. E. Prentiss, 4115 Agna Vista, Oakland.
Architect ...None.
Contractor..Chris. C. Andersen, 4115 Agna Vista, Oakland.
COST, $1000

DWELLING
(1220) W PARK BLVD 270 N Hampel, Oakland. One-story 7-room dwlg.
Owner.....E. Maasberg, 3915 Greenwood Ave, Oakland.
Architect ...None.
Days work.
COST, $3000

ALTERATIONS
(1221) NO. 1026 TWENTY-SECOND, Oakland. Alterations.
Owner.....Daniel Sullivan, Premises.
Architect ...None.
Contractor..Gilman & Wiand, 2704 San Pablo Ave., Oakland.
COST, $1080

DWELLING
(1222) E BLEINHEIM 52 N Hortense, Oakland. One-story 4-room dwelling
Owner.....Mrs. Anna Southers, 145 Gough, San Francisco.
Architect ...None.
Contractor. Ralph H. Cooke, 739 Haight, San Francisco.
COST, $1000

ADDITION
(1223) E MARKET 200 S 16th, Oakland. Addition.
Owner.....— Weyreck.
Architect ...None.
Contractor..C. M. Griffin, 764 5th Ave., Oakland.
COST, $1000

DWELLING
(1224) E MANILA AVE 200 S 38th, Oakland. One-story 5-room dwelling.
Owner.....W. A. Devinney, 1375 California, San Francisco.
Architect ...None.
Day's work.
COST, $1600

DWELLING
(1225) N PEARMAN 150 E 107th Ave., Oakland. One-story 5-room dwlg.
Owner.....L. Helmuth, 1325 7th Ave., San Francisco.
Architect ...None.
Contractor..M. C. Kaler, 731 51st, Okd.
COST, $1685

FRAME DWELLING
(1227) W MONTE AVE., bet Park Way and Pala Ave. being Lot 73 Alta Piedmont Tract, Oakland. All work for two-story frame dwelling.
Owner.....L. D. Wood, 3717 Telegraph Ave., Oakland.
Architect ...Chas. W. McCall, Central Bank Bldg., Oakland.
Contractor..A. Peterson, 1201 19th, Okd
Filed May 16, '16. Dated May 15, '16.
Frame up, roof sheathed, brick chimney build $1199
Brown coated 1199
Completed and accepted..... 1150
Usual 35 days..... 1203
TOTAL COST, $4800
Bond, $4800. Sureties, Oscar L. Zels and Wm. Wright Jr. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1228) W YORK DRIVE 350 S Arroyo, Piedmont. Two-story frame dwlg.
Owner.....Geo. E. Archambeault, 4150 Piedmont Ave., Oakland.
Architect ...None.
Contractor..Hopper & Sons, 90 Glen Ave., Oakland.
COST, $3000

FRAME DWELLING
(1229) COR. MOUNTAIN AVE AND Hager, Piedmont. One-story 7-room and basement frame dwelling.
Owner.....Mrs. Elizabeth App.
Architect ...None.
Contractor..Bruce B. Burnett, 316 Oak Ave., Oakland.
COST, $5500

FRAME RESIDENCE
(1230) PIEDMONT. Two-story and basement frame residence and separate garage.

Owner.....Piedmont Home Bldg. Co.
Architect...Falch & Knoll, Hearst Bldg., San Francisco.
Day's work. COST, $10,000

ALTERATIONS
(1233) NO. 1616 SAN PABLO AVE., Oakland. Alterations.
Owner.....Philip Cuckovich, Prem.
Architect...None.
Contractor..John Perona, 568 7th, Okd. COST, $400

DWELLING
(1234) W HIGH 200 S Santa Rita, Oakland. One-story 5-room dwelling
Owner.....I. A. Keilogg, 3404 Champion, Oakland.
Architect...None.
Day's work. COST, $1600

DWELLING
(1235) N GALINDO 200 E 35th Ave., Oakland. One-story 4-room dwlg.
Owner.....C. Anderson, 3528 Galindo, Oakland.
Architect...None.
Contractor. C. A. Jackson, 2911 Viola, Oakland. COST, $1700

DWELLING
(1236) N FIFTY-SEVENTH 300 W Lowell, Oakland. One-story 4-room dwelling.
Owner.....Robert Wilson, 972 57th, Oakland.
Architect...None.
Day's work. COST, $1450

DWELLING
(1237) S OLIVE 225 E 98th Ave., Oakland. One-story 4-room dwelling.
Owner.....C. Willchoff, Oakland.
Architect...None.
Contractor..J. C. Pearce, 6932 Lockwood, Oakland. COST, $1600

DWELLING
(1238) S OLIVE 175 E 98th Ave., Oakland. One-story 4-room dwelling.
Owner.....C. Willchoff, Oakland.
Architect...None.
Contractor..J. C. Pearce, 6932 Lockwood, Oakland. COST, $1600

DWELLING
(1246) N ARIMO AVE 332 W Walla Vista Ave., Oakland. Two-story 8-room dwelling.
Owner.....Wm. Elliott Johnson, 1225 4th Ave., Oakland.
Architect...Walter J. Mathews, 927 Broadway, Oakland.
Contractor..J. F. Maganini, 603 36th, Oakland. COST, $6000

CLASS "A" STORE & LOFT BLDG.
(1249) NW FIFTEENTH AND CLAY W 100xN 103-9, Oakland. Concrete, cantilevers, piers and foundations, side walks, retaining wall and reinforced concrete for eight-story and basement Class "A" store and loft building.
Owner.....The Chas. Jurgens Co., 373 13th, Oakland.
Architect...Walter J. Mathews, 927 Broadway, Oakland.
Contractor..Powell Bros. Constr. Co., 2708 Harrison Ave., Ala.
Filed May 17, '16. Dated May 16, '16.
1/8 completed $4712.75
1/4 completed 4712.75
3/8 completed 4712.75
1/2 completed 4712.75
5/8 completed 4712.75
3/4 completed 4712.75
7/8 completed 4712.75
Completed 4712.75
Usual 35 days.....12568.00
TOTAL COST, $50,270.00
Bond, $26,000. Surety, Maryland Casualty Co. Limit, July 8. Forfeit, none. Plans and specifications filed.

DWELLING
(1255) S MARIN 105 W Pomona, Albany. One-story 5-room dwelling.
Owner.....E. & A. Co., Syndicate Bldg Oakland.
Architect...None.
Day's work. COST, $2000

ALTERATIONS
(1256) NW TWENTY-FOURTH AND Broadway, Oakland. Alterations.
Owner.....Pacific Kissell Kar Co., Premises.
Architect...None.
Contractor..A. Hahan, 1730 Eagle Ave., Alameda. COST, $400

(1257) NO. 5640 VICENTE, Oakland Two-story addition.
Owner.....Joe Bertoldy, 5642 Vicente Oakland.
Architect...None.
Day's work. COST, $600

DWELLING
(1258) E NINETY-SIXTH AVE 65 N Cherry, Oakland. One-story 5-room dwelling.
Owner.....Geo. Ferguson, 2129 96th Ave., Elmhurst.
Architect...None.
Contractor..E. E. Wells, 8724 E-14th Oakland. COST, $1500

(1259) N E-TENTH 100 W 28th Ave., Oakland. Two-story 9-room dwelling
Owner.....Manuel Goveia, Elmhurst.
Architect...None.
Contractor..Frank Travasso, 1326 E-15th, Oakland. COST, $2500

DWELLING
(1260) NE AILEEN & LOS ANGELES E 80xN 100, Oakland. All work for two one-story 5-room frame dwlgs.
Owner.....C. H. Cutter, Oakland.
Architect...None.
Contractor..Thomas Rutherford, 935 35th, Oakland.
Filed May 18, '16. Dated May 18, '16.
Frames up 1/4
Brown coated 1/4
Completed and accepted..... 1/4
Usual 35 days..... 1/4
TOTAL COST, $3300
Bond, $1650. Sureties, J. E. MacCormac and Daniel Geary. Limit, 60 days after May 19. Forfeit, $3. Plans and specifications filed.

GREEN HOUSES
(1261) EDES AVE near 107th Ave., Oakland. Three one-story green houses.
Owner..... Nakashima, Premises.
Architect...None.
Day's work. COST, $1200

ALTERATIONS
(1262) NO. 1501 HENRY, Oakland. Alterations.
Owner.....Butterfield & Barker, 2614 Benvenue Ave., Oakland.
Architect...None.
Day's work. COST, $400

DWELLING
(1265) W VIEW 440 N Mather, Oakland. One-story 5-room dwelling.
Owner.....J. F. Chambers, 206 Plaza Bldg., Oakland.
Architect...None.
Day's work. COST, $1750

ALTERATIONS
(1266) NW COR FORTY-NINTH AND Broadway, Oakland. Alter two-story store & flat building; alter 2nd story into apartments.
Owner.....Joe Gallo, 4901 Broadway, Oakland.
Architect...A. W. Smith, 1010 Broawway, Oakland.
Contractor..Geo. H. Johnson, 5457 Vicente, Oakland. COST, $2500

STORES
(1267) W SHATTUCK AVE 70 N 47th Oakland. One-story stores.
Owner.....G. Armino, 4701 Shattuck Ave., Oakland.
Architect...None.
Contractor..D. Uccello, 434 Avon, Okd. COST, $1000

DWELLING AND GARAGE
(1268) REAR NO. 248 LAKE SHORE Blvd, being Lot 39 Revised Map Ppty **Alamed** Land Co, Oakland. All work for two-story dwelling and garage.
Owner.....Anna M. Greenfield, Prem.
Architect...None.
Contractor..A. H. Rose & Co., 545 17th, Oakland.
Filed May 19, '16. Dated May 18, '16.
Frame up $500
Brown coated 500
Completed and accepted..... 575
Usual 35 days..... 525
TOTAL COST, $2100
Bond, none. Limit, 75 days after May 18. Forfeit, none. Plans and specifications filed.

CLASS "C" STORES
(1269) W BROADWAY at junction of Webster, being S line Oakland Homestead Tract at pt where intersected by W line Broadway 5251 N 243 E 62-6, Oakland. All work except electric fixtures for one-story Class "C" stores.
Owner.....Mrs. Alice Arnstein, Care Walter Arnstein, Hobart Bldg., San Francisco.
Architect...Walter D. Reed, Oakland Bank of Savings Bldg., Oakland.
Contractor..P. A. Palmer, Monadnock Bldg., San Francisco.
Filed May 19, '16. Dated May 16, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $19,950
Bond, none. Limit, 100 days. Forfeit, $5. Plans and specifications filed.

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1205	Willits	Boldt	400
1206	Smith	Tupper	400
1207	Carlen	Carlen	500
1212	Texdahl	Texdahl	1950
1213	Larson	Anderson	2000
1214	Manasse	Manasse	1500
1218	Underwood	Underwood	1200
1219	Hagopian	Jones	4500
1226	Moore	Fluth	43470
1231	Univ. Cal.	Scott	29880
1232	Same	Ne Page	20426
1251	Hollman	Hanson	3250
1252	Malley	Malley	2000
1253	Hall	Coggins	2600

54 Harrison .....Riddell 400
63 Berkeley Dev.....Mason 3000
64 Engler .....Engler 4500

ARAGE
205) NO. 2733 WOOLSEY, Berkeley. Garage.
wner.....C. D. Willitts, Premises.
rchitect ...None.
ontractor..Wm. L. Boldt, 2610 Grove, Berkeley.
COST, $400

EPAIRS
206) NO. 2309 HOWE, Berkeley. Repairs.
wner.....S. R. Smith, Premises.
rchitect ...None.
ontractor..Thad. M. Tupper, 2310 Russell, Berkeley.
COST, $400

WELLING
1212) W TENDAHL 80 S Oegon, Berkeley. One-story 5-room dwelling.
wner.....C. Texdahl, 3035 Harper, Berkeley.
rchitect ...None.
ay's work. COST, $1950

LTERATIONS
1213) N FRANCISCO 100 W Milvia, Berkeley. Alter one-story dwelling into 2-story 11-room flats.
wner.....Oscar Larson, 1939 Francisco, Berkeley.
rchitect ...R. L. Holt, 2011 Shattuck Ave., Berkeley.
ontractor..J. J. Anderson, 1911 Berkeley Way, Berkeley.
COST, $2000

DDITION
1214) FOURTH AND CAMELIA, Berkeley. One-story addition to factory
wner.....Manasse Block Tanning Co., Premises.
rchitect ...None.
ay's work. COST, $1500

WELLING
1218) NO. 1730 McGee, Berkeley. One-story 5-room dwelling.
wner.....C. C. Underwood, 1309 Carlton, Berkeley
rchitect ...None.
ay's work. COST, $1200

DWELLING
(1219) NO. 810 SANTA BARBARA AV Berkeley. Three-story 10-room dwlg
wner.....D. R. Hagopian, 1007 Spruce, Berkeley.
rchitect ...None.
ontractor..C. C. Jones, 800 Santa Barbara Ave., Berkeley.
COST, $4500

HOTEL
(1226) W DANA 400 N Bancroft Way N 65-9NW 120, Berkeley. All work for Three-story and basement 56-rooms hotel.
Owner.....Mary A. and E. P. Moore, Berkeley.
Architect ...George W. Patton, 2136 Emerson, Berkeley.
Contractor..J. H. Fluth, 1608 McGee Ave., Berkeley.
Filed May 16, '16. Dated Apr. 12, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $13,470
Bond, $21,735. Surety, Massachusetts Bonding & Insurance Co. Limit, 120 days. Forfeit, none. Plans and specifications filed.

(1231) UNIVERSITY CAMPUS, Berkeley. Heating and ventilating for University Library.
Owner.....Regents University of California, Berkeley.
Architect ...John Galen Howard, 604 Mission, San Francisco.
Contractor..Scott Co., 243 Minna, San Francisco.
COST, $29,880

(1232) ELECTRIC WORK ON ABOVE
Contractor..Ne Page-McKinney Co., 149 New Montgomery, S. F.
COST, $20,426

DWELLING
(1251) E HILLEGASS 170 N Ashby. Berkeley. One and one-half-story 7 room dwelling.
Owner.....R. Hollman, 2236 Durant Berkeley.
Architect ...W. L. Broderick, 1201 Colusa, Berkeley.
Contractor..J. S. Hanson, 1633 Josephine, Berkeley.
COST, $3250

(1252) N ALCATRAZ AVE 400 E Adeline, Berkeley. Two-story 5-room dwelling.
Owner.....F. T. Malley, 3001 Grove, Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1253) W PINE AVE 55 S Russell, Berkeley. Two-story 6-room dwlg.
Owner.....Leola Hall Coggins, 2929 Piedmont Ave., Berkeley.
Architect ...None.
Contractor..Hall & Coggins, 2929 Piedmont Ave., Berkeley.
COST, $2600

REPAIRS
(1254) NO. 51 OAKVALE AVE., Berkeley. Repairs.
Owner.....Miss O. Harrison, Premises.
Architect ...None.
Contractor..Riddell Bldg. Service Corp. 2247 Telegraph Ave., Bkly.
COST, $400

DWELLING
(1263) W FRESNO 215 S Solano Ave., Berkeley. One-story 6-room dwelling
Owner.....Berkeley Development Co., Shattuck and Addison, Bkly
Architect ...None.
Contractor..Mason-McDuffie Co., Shattuck and Addison, Bkly.
COST, $3000

ADDITION
(1264) N HASTE — E College Ave., Berkeley. Three-story 9-room addition to Sorority house.
Owner.....Louis Engler, 2721 Haste, Berkeley.
Architect ...None.
Day's work. COST, $4500

Building Contracts Awarded

Alameda

1239	Surf Beach	Spence	29990
1240	Noble	Noble	2000
1241	Same	Same	2000
1242	Panama Lbr	Owner	400
1243	Ala Bk	Young	400
1244	Elks' Club	Eiberger	500
1245	Kelly	Kelly	700
1247	Alameda	Klyce	82137
1248	Same	Schrader	11800
1250	Hill	Andresen	500

BATH ROOMS
(1239) SURF BEACH PARK, Alameda Bath rooms.
Owner.....Surf Beach Amusement Co. Premises.
Architect ...Edw. J. Symmes, Pacific Bldg., San Francisco.
Contractor..A. T. Spence, 641 Taylor Ave., Alameda.
COST, $29,990

DWELLING
(1240) NO. 2520 SAN JOSE AVE., Alameda. One-story 5-room dwelling.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1241) NO. 2510 BUENA VISTA AVE., Alameda. One-story 5-room dwlg.
Owner.....G. H. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

SHED
(1242) WEBSTER at the Bridge, Alameda., Shed.
Owner.....Panama Lumber Co., Prem
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1243) NO. 1025 UNION, Alameda. Alterations.
Owner.....Alameda Bank, Park and Central Ave., Alameda.
Architect .. None.
Contractor..E. Young, 2115 Webb Ave., Alameda. COST, $400

BOWLING ALLEY
(1244) ELKS' CLUB, Alameda. Bowling alley.

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White Brothers

Fifth & Brannan Sts. **San Francirco**

Owner.....Elks' Club, Alameda.
Architect...None.
Contractor..M. Eiberger, 745 5th Ave., San Francisco.
COST, $500

DWELLING
(1245) NO. 2028 CLINTON, Alameda. One-story 4-room dwelling.
Owner.....W. Kelly, Premises.
Architect...None.
Days work. COST, $700

BRICK SCHOOL
(1247) S ALAMEDA AVE 250 W Oak S 150 W 14 S 140 W 186 N 290 E to pt beg., Alameda. All work except steel for two-story and basement brick school (Porter School).
Owner.....City of Alameda.
Architect...Carl Werner and Charles E. J. Rogers, Phelan Bldg., San Francisco.
Contractor..H. A. Klyce, Sheldon Bldg., San Francisco.
Filed May 17, '16. Dated May 13, '16.
Payments each month of..... 75%
Usual 35 days..... 25%
TOTAL COST, $82,137
Bonds, $41068.50; $41068.50. Surety, New Amsterdam Casualty Co. Limit, 140 days. Forfeit, $10. Plans and specifications filed.

1248) STRUCTURAL STEEL AND ornamental iron work on above.
Contractor..Schrader Iron Works, 1247 Harrison, San Francisco.
Filed May 17, '16. Dated May 15, '16.
Payments same as above.....
TOTAL COST, $11,800
Bonds, $5900 and $5900. Surety, New Amsterdam Casualty Co. Limit, 75 days. Forfeit, $10. Plans and specifications filed.

DWELLING
(1250) CENTRAL AVE., Alameda. One story 2-room dwelling.
Owner.....Florence M. Hill, 1900 Alameda Ave., Alameda.
Architect...None.
Contractor..H. C. Andresen, 1229 Pearl, Alameda.
COST, $500

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED
May 11, 1916—LOT 57 Nova Piedmont, Piedmont. Mabel Woodard to E W Woodard.....May 10, 1916
May 12, 1916—E BROADWAY 274.75 N Moss Ave, Oakland. Mary E McCarthy to A L & J E Lundy.....Feb. 29, 1916
May 12, 1916—SE UNIVERSITY AVE and Grove, Bkly. W H Heywood by James W Plachek to C Texdahl..May 9, 1916
May 12, 1916—LOTS 11 AND 12 BLK "R" Revised Map Oakland Heights Alameda Co. Albert Hammarberg to whom it may concern.May 11, 1916
May 12, 1916—LOTS 10, 11 AND 12 Blk "U" Leonard Tract, being No. 2845 Telegraph Ave, Bkly. Margaret O Dunn to A Cederborg and A H Anderson.....May 12, 1916
May 13, 1916—LOTS 8 TO 24 INCL and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R. J. McMullen's Sbdvn Blk 576, Oakland. Pacific Coast Shredded Wheat Co to E L B Zimmer.....May 3, 1916
May 15, 1916—S 20 LOT 26 and N 20 Lot 25 Map Broadway Terrace, Okd. Walter H Packard to whom it may concern.....May 11, 1916
May 15, 1916—REAR NO. 5663 W Broadway, bet. Kales and Taft Ave, Okd. J F Kilpatrick to Joseph J Costodio.....May 13, 1916
May 16, 1916—LOTS 6 AND 7 BLK "E" Claremont Court, Berkeley. Mrs Samuel B McLenegan to Frank M Garden & Co.....May 8, 1916
May 16, 1916—LOT 24 BLK 6, Brookdale Terrace, Okd. Nannie A Brown to W C Brown.....May 15, 1916
May 16, 1916—LOTS 8 TO 24 Incl and ptn 5, 6, 7 and 25 to 32 incl, R J McMullens Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Steiger Terra Cotta & Pottery Works.....May 10, 1916
May 16, 1916—LOT 26 BLK 21 Map Mathews Tract, Bkly. W P Dunning by J S Hanson to whom it may concern.....May 1, 1916
May 17, 1916—SW TELEGRAPH AVE and 30th, Okd. Charles H J Truman to Johnston Co.....May 15, 1916
May 17, 1916—SW FARRAGUT AVE and King Ave W 150xSE 211.5, Okd. Elizabeth B Moore to Alfred Peterson.....May 13, 1916
May 18, 1916—LOT 95 Amended Map Alta Piedmont Tract and Alta Heights, Piedmont. R E Stubbe to whom it may concern.May 18, 1916
May 18, 1916—LOTS 8 TO 24 incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R J McMullen's Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Detroit Steel Products Co..May 10, 1916
May 18, 1916—BRYANT ST., Oakland. Eunice C Wiser to Gordon J Wiser.....May 18, 1916
May 18, 1916—LOT 17 BLK 8 Rockridge Terrace, Okd. J C O'Connor to whom it may concern.May 17, 1916

LIENS FILED

ALAMEDA COUNTY.

May 15, 1916—SW HOWARD 185.145 from NW Oakland Ave NW 40xSW 100, Piedmont. E S Thompson & Son vs H J Garcia.....$612.60
May 15, 1916—N 20 LOT 140 and S 20 Lot 142 Map Terminal Junction Tct, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50
May 17, 1916—LOT 146 and S 5 Lot 148 Map Terminal Junction Tract, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50
May 17, 1916—SE E-TWENTIETH 55 SE 55th Ave SE 52 SW 127.72, Okd. Arthur W Meyers or Myers (given both) vs J Edward Mitchell and Wm L Newby.....$97
May 17, 1916—SW SACRAMENTO & Francisco W 80xN 100, Bkly. E M Spaulding, $97; A Dobinson, $39; Swift & Wilcox, $67.95 vs E M Reagh and Henry Lehfeldt.....
May 18, 1916—LOTS 1 TO 10 and 13 to 24, incl Blk 20, Town of Woodstock, Ala. W W Montague & Co vs Frank Sobrero, Gerolama Firpo, Luigi Queirolo and Angelo Stagnara (Alamada Vegetable Gardens Co).....$87.31
May 19, 1916—LOT 18 BLK 1 Brookdale Terrace(Okd. H A Liese vs Robert Davies and W H Little....$20

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

DWELLING
E N-THIRTEENTH, bet. Jackson and Taylor, San Jose. All work for six-room, dwelling.
Owner.....Salvatore Oliveri, 642 N-13th St., San Jose.
Architect...None.
Contractor..B. Campisi, 581 N-13th St., San Jose.
Filed May —, '16. Dated May 6, '16.
Frame up.....$600.00
Plastering done..... 600.00
Usual 35 days..... 594.75
TOTAL COST, $1794.75
Bond, $1000. Sureties, D. Campisi and A. Zolezzi. Limit, July 24, 1916. Forfeit, none. Plans and specifications filed

BRICK AND FRAME STORE, ETC.
UNIVERSITY AVE & HIGH ST., Palo Alto. All work for three-story brick and frame store and office building.
Owner.....Ernest Wilson Co., Palo Alto, Cal.
Architect...Arthur S. Heineman, San Fernando Bldg., Los Angeles.
Contractor..Dreyfus Bros., 324 California St., San Francisco.
Filed May 16, '16. Dated May 15, '16.
Foundations in.....$ 750
2nd story joists up..... 1500
Roof framed and sheathed..... 2000
Plumbing, wiring roughed in and roof on..... 3640
Plastering done..... 1200
Interior trim and sash and doors ready..... 3500
Completion..... 3000
Usual 35 days..... 5197
TOTAL COST, $20,787
Bond, $10,393. Surety, Guardian Casualty & Guaranty Co. Limit, 100 days after date. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

RESIDENCE
PTN LOT "C" BLK 10, Burlingame Land Co., No. 2, Burlingame. All work except finish hardware and light fixtures for residence.
Owner.....H. W. Regan, Hatch Bldg., Burlingame.
Architect...Thos. M. Edwards, Bank Bldg., Burlingame.
Contractor..Chris. Larsen & Son, 1132 Rhinette St., Burlingame.
Filed May 9, '16. Dated May 3, '16.
When framed.....$528
When plastered..... 528
5 days after filing Notice of Completion..... 528
Usual 35 days..... 530
TOTAL COST, $2114
Bond, none. Limit, 90 days. Forfeit, $2.50 per day. Plans and specifications filed.

FRAME BUNGALOW
LOT 16 BLK 53, Bowie Estate, Eastern Addition, San Mateo. All work for one-story frame bungalow.
Owner.....E. F. Baer, San Mateo.
Architect...None.
Contractor..D. F. Valentine.
Filed May 12, '16. Dated May 11, '16.
Framed and roofed..... ¼
When plastered..... ¼
Completed, etc..... ¼

'sual 35 days..... ¼
TOTAL COST, $750
ond, none. Limit, 40 working days. orfeit, none. Plans and specifications filed.

RAME BUILDING
OT 7 BLK 4, Central Addition to San Mateo, San Mateo. All work except glass and glazing, light fixtures and window shades for one-story and frame building.
vner.....Edwin O., Charles A., and Harry W. Hessler, 712 B St., San Mateo.
rchitect...Thos. M. Edwards and Ernest L. Norberg, Bank Bldg., Burlingame.
ontractor..Croop & Keegan, San Mateo.
led May 13, '16. Dated May 11, '16.
Framed and roofed.....$600
When plastered 600
When completed 600
Usual 35 days..... 695
TOTAL COST, $2495
ond, $1250. Sureties, M. F. Boland and lizabeth Brown. Limit, 90 working ays. Forfeit, $2 per day. Plans and pecifications filed.

RAME SCHOOL
XTR. EL CERRITO AVE AND MEDway Road, Hillsborough. All work for one-story frame school building.
wner.....Board of Trustees Hillsborough District School, Hillsborough.
rchitect...Lewis P Hobart, Crocker Bldg., San Francisco.
ontractor..McLeran & Peterson, Sharon Bldg., San Francisco.
iled May 15, '16. Dated May 3, '16.
On 15th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $13,000
ond, $6,500. Surety, Casualty Co. of merica. Limit, August 1, 1916. Forfeit, $25 per day. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
May 12, 1916—W FIFTH ST., bet. William and Reed, San Jose. Nettie and I L Severtson to whom it may concern.....May 11, 1916
May 12, 1916—E THIRTEENTH, bet. Washington and Empire, San Jose. F A Souza to E W Wolford.....May 11, 1916
May 15, 1916—N BUSCH AVE near The Alameda, Hanchett Park Tract, near San Jose. George A Prindiville to Al Compton.....May 11, 1916
May 15, 1916—LOT 3 BLK 53, Hamilton Ave near Seneca, Palo Alto. Robert C Ray to Collman & Collman.....May 10, 1916
May 11, 1916—WASHINGTON ST. near Main, San Jose. C P Bailey & Sons to whom it may concern.....May 8, 1916
May 13, 1916—LOT 36 Gunckel Sbdvn being sbdvn of Lot 17 of Odd Fellows Savings Bank Tract, San Jose. Alvin I Hall to whom it may concern.....May 11, 1916
May 16, 1916—NO. 537 N-SIXTEENTH St., San Jose. Ruth O'Neil to whom it may concern.....May 15, 1916
May 17, 1916—LOT 56 WALSH TCT Map No. 2 Book "N" Page 94, Recorder's Office. Guy M Latta to whom it may concern..May 16, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
May 7, 1916—LOT 25 and SE ½ Lot 26 Blk 30, Palo Alto, T Matheson vs E P Gamble.....$38

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

FRAME RESIDENCE
RICHMOND TRAFFIC CENTER TCT., Richmond. Frame residence.
Owner.....Downer Land Co., Richmond, Cal.
Architect...Jas. T. Narbett, 704 MacDonald Ave., Richmond.
Contractor..J. A. Fagestrom, 25 9th St., Richmond.
COST, $2832

RESIDENCE
LOT 12 BLK 82 East Richmond Heights Tract No. 2, Richmond. Concrete, carpenter and mill work, chimney, roof, plumbing, painting, etc., for two-story and basement residence.
Owner.....John Milicevich, 140 San Pablo Ave., Richmond.
Architect...None.
Contractor..A. A. Beckman, Sutter St. east of 5th, Richmond, Cal.
Filed May 15, '16. Dated Apr. 10, '16.
Frame erected $600
Covered and enclosed..... 200
Finished and accepted..... 361
Usual 35 days..... 387
TOTAL COST, $1548
Bond, $774. Sureties. E. M. Tilden and W. F. Sand. Limit, 60 working days. Forfeit, none. Plans and specifications filed.

BRICK BUILDING
PTN LOTS 6 AND 7 BLK 323 of Additional Survey of Town of Martinez. Concrete, iron and steel, brick work, carpenter and mill work, roofing, tin and galvanized iron, glass and glazing, hardware, marble, lathing, plastering, etc., for two-story brick building.
Owner.....J. A. Kelly, Main & Ferry St., Martinez.
Architect...W. H. Crim Jr., 425 Kerny, San Francisco.
Contractor..C. H. Ludden and R. W. Lambly, Estudillo and Thompson Sts., Martinez.
Filed Apr. 14, '16. Dated Apr. 4, '16.
Brick work completed.....$1492.25
Plastering completed..... 1492.25
Completed and accepted..... 1492.25
Usual 35 days..... 1492.25
TOTAL COST, $5969.00
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

BRICK BUILDING
SE MacDONALD AVE & NINTH ST., Richmond. All work for two-story brick building.
Owner.....Ida M. Boyle, Richmond.
Architect...J. B. Ogborn, 822 MacDonald Ave., Richmond.
Contractor..C. Overaa, 1808 Roosevelt Ave., Richmond.
Filed May 17, '16. Dated May 8, '16.
Roof on $2526.50
Brown coated 2526.50
Completed and accepted..... 2526.50
Usual 35 days..... 2526.50
TOTAL COST, $10,106.00
Bond, $5053. Sureties, Julia Overaa and J. H. Plate. Limit, forfeit, none. Plans and specifications filed.

TANKS ETC.
AT COMPANY'S PPTY AT AVON, CAL. All work for 1 battery of 2 class "E" Stirling boilers with Peabody oil furnace; 1 battery of 2 steam stills with flues and stack and 1 single steam setting and 1 boiler stack for tanks.
Owner.....Associated Oil Co., Sharon Bldg., S. F. and Avon, Cal.
Architect...None.
Contractor..J. I. Thorpe & Son.
Filed May 8, '16. Dated May 1, '16.
On 10th day of each month.... 75%
Usual 35 days..... 25%
TOTAL COST, $3240
Bond, $1620. Surety, New Amsterdam Casualty Co. Limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS.

MARIN COUNTY.

COTTAGE
COUNTY FARM, Marin County. Erect cottage for tuberculosis patients.
Owner.....Marin County.
Architect...None.
Contractor..Joseph Williams.
COST, $2590

ALTERATIONS
SAN ANSELMO. All work for alterations to residence.
Owner.....Mabel F. Jones, San Anselmo.
Architect...Mitchell & Hodges, 742 Market, San Francisco.
Contractor..E. Eilingson, 110 Jessie, San Francisco.
Filed May 17, '16. Dated May 16, '16.
Frame up $775
Roof and walls sheathed..... 775
When completed 775
Usual 35 days..... 785
TOTAL COST, $3110
Bond, $1555. Surety, New Amsterdam Casualty Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
May 16, 1916—SAUSALITO, Marin Co. Margaret E Watson to Harry Davinett et al.....May 4, 1916

RELEASE OF LIENS.

MARIN COUNTY.

RECORDED AMOUNT
May 12, 1916—ROSS. F Paolinelli et al to A Devincenzi et al.....$52.50

BUILDING CONTRACTS.

FRESNO COUNTY.

DWELLING
LOTS 6 AND 7 BLK 41, Arlington Heights, Fresno. Dwelling
Owner.....Thomas Elrod.
Architect...None.
Contractor..J. S. Taylor.
COST, $1000

DWELLING AND GARAGE
LOTS 28 AND 29 BLK 9, Arlington Heights, Fresno. Dwelling and garage.

Owner.....A. A. Sadler, 1943 Fresno St., Fresno.
Architect ...None.
Day's work. COST, $1850

DWELLING
LOTS 20, 21 AND 22 BLK 54, East Fresno. Dwelling.
Owner.....Fred Jones.
Architect ...None.
Day's work. COST, $3900

DEPOT
BET. MARIPOSA AND TULARE STS., Fresno. All work for depot building.
Owner.....Southern Pacific Co.
Architect ...None.
Contractor..B. T. Owsley, 119 Jessie, San Francisco.
Filed May 12, '16. Dated May 4, '16.
At end of each month..... 75%
35 days after completion....Balance
TOTAL COST, $14,496
Bond, $7248. Surety, New Amsterdam Casualty Co. Limit, 115 days. Forfeit, none. Plans and specifications filed.

HEATING PLANT
MARIPOSA AND TULARE STS., Fresno. Heating plant for depot building and in Hotel Truckee.
Owner.....Southern Pacific Co.
Architect ...None.
Contractor..Scott Co., 243 Minna St., San Francisco.
Filed May 12, '16. Dated ——.
COST, $3285

REPAIRS
NO. 1028 O ST., Fresno. Repair dwlg.
Owner.....M. K. Harris, 1029 O St., Fresno.
Architect ...None.
Contractor..W. H. Minard, 319 Abby St., Fresno.
COST, $1800

FRAME SHOP
LOT 2 BLK 1 Van Ness Park Addition, Fresno. All work for one-story frame barber shop.
Owner.....Geo. Kaehler, 102 Forth-Camp St., Fresno.
Architect ...E. Mathewson, Cory Bldg., Fresno.
Contractor..Hansen Constr. Co., 2225 Fresno St., Fresno.
Filed May 17, '16. Dated May 17, '16.
Upon completion $690
TOTAL COST, $690
Bond, none. Limit, 10 working days. Forfeit, none. Plans and specifications filed.

DWELLING
LOTS 25 AND 26 BLK 2, Berry Tract, Fresno. Dwelling.
Owner..... Emma Kohlfing, 112 West St., Fresno.
Architect ...None.
Contractor..Dow & Cannon, Fresno.
COST, $1300

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
May 12, 1916 LOTS 9 AND 10 BLK 2, Altamont Add'n., Fresno. Lou E Williams to whom it may concern.....May 11, 1916

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
May 11, 1916—LOT 18 W 5 feet Lot 17 Blk 3, Arlington Heights Tract No. 1, Fresno. D M Kimes vs Lucy E Glunz $33

COMPLETION NOTICES

SACRAMENTO COUNTY.

RECORDED ACCEPTED
May 12 1916—LOCATION NOT GIVEN Libby, McNeill & Libby to whom it may concern.....April 14, 1916

BUILDING CONTRACTS

SACRAMENTO COUNTY.

HEATING, ETC.
LOT 4 L, M, 27th and 28th Sts., Sacramento. Heating and ventilating for building.
Owner.....Scottish Rite Cathedral Association of Sacramento.
Architect ...None.
Contractor..Ideal Heating & Eng. Co., 1892 Folsom, San Francisco.
Filed Maq 11, '16. Dated May 6, '16.
COST, $4797

BUILDING CONTRACTS.

SACRAMENTO COUNTY.

BRICK STORE
NO. 1025 FRONT ST., on N 20 feet of W 73 feet Lot 4 J, K, 1st and 2nd Sts., Sacramento. Two-story brick store building.
Owner.....Jay Wickler and Elmer Fox, Berkeley, Cal.
Architect ...None.
Contractor..Gene Pendergast, 1311 22d St., Sacramento.
COST, $4500

MOVE BUILDING
NO. 2020 J ST., on E ½ Lot 3 J, K, 20th and 21st Sts., Sacramento. Move building to rear.
Owner.....A. Ansen.
Architect ...None.
Day's work. COST, $450

STATE CORPORATION DEPARTMENT.

SACRAMENTO, Cal.—Commissioner of Corporations H. L. Carnahan has authorized Grass Valley Consolidated Gold Mines to issue 225,000 shares of its capital stock to C. E. Weeks in exchange for options to purchase the Allison Ranch Mine and the Sullivan-Donovan group of claims lying in the south end of the Grass Valley Mining District, Nevada County, and to sell 375,000 shares at the price of 60c per share, so as to net the company not less than 82½% of the selling price. The purchase price of the Allison Ranch Mine is $25,000 and of the Sullivan-Donovan group $19,900. It is estimated that approximately $500,000 will be eventually required to develop the properties on the extension plan proposed. With the proceeds arising from the sale of the first block of stock, the old workings on the Allison Ranch Mine will be unwatered and a mill, cyanide plant and other equipment installed. The Commissioner's permit requires that the 225,000 shares issued in payment for the options be held as an escrow and withheld from sale except by permission first obtained from him.

Guarantee Battery Co., San Francisco, is permitted to issue 2997 shares to Fred J. Brand and George E. Cushman in exchange for the property and assets of their business and to sell 250 shares to Albert O. Harwood, 200 shares to Robert H. Ohea and 50 shares to Jacob Gietzen at par, $10 per share, net to the company.

Home Lumber Company, formed for the purpose of starting a lumber business at Manteca, California, is permitted to sell 75 shares to Carl F. Palm, 74 shares to Bruce R. Du Vall and 1 share to Rhoda S. De Vall, at par, $100 per share, net to the company.

Parchmyn Paper Co., San Francisco, which has started the operation of a plant in Alameda for the manufacture of a parchmyn paper under a new process, is permitted to sell 500 shares to its incorporators, C. M. O'Connor, John R. Kennett, R. W. Harrison, Carlos Harrison, and I. J. Gutte, at par, $100 per share, net to the company.

Unit System of Heating & Manufacturing Co., Los Angeles, is permitted to sell 23,495 shares at par, $1 per share, to net the company not less than 90, to issue 500 shares to J. P. Chandler for legal services, 10,200 shares to Charles Atherton in exchange for a sheet metal business, and when the company shall have received letters patent of the United States for a gas furnace, for which application has been made, to issue 15,299 shares to Charles Atherton and 500 shares to J. P. Chandler in exchange for the invention.

GOVERNMENT PUBLICATIONS FOR SALE.

The following were among the publications received in stock by the Superintendent of Documents, at Washington, during the week ended April 29:

General Statistics of Cities, 1915 (Bureau of the Census).—Tables and descriptive text of municipal organizations, police department, liquor traffic, and municipally owned water-supply systems, with map of cities in the United States having a population of over 30,000. Price, cloth, 55 cents.

Export trade suggestions (Bureau of Foreign and Domestic Commerce, Miscellaneous Series 35).—Contains suggestions for furthering the foreign trade of the United States, and criticism of methods now in vogue. Price, 15 cents.

Some Foreign Specifications for Railway Materials (Bureau of Standards Technologic Paper 61).—Discussion and statistics of specifications of rolling stock of railways of the principal foreign countries of the world for the purpose of determining the cause of railway accidents due to faulty construction of wheels, rails, axles, etc. Price, 25 cents.

OIL AND MINING COMPANIES IN BURMA.

Consul Maxwell K. Moorhead, at Rangoon, has transmitted a list of oil and mining companies in Burma, copies of which can be obtained at the Bureau of Foreign and Domestic Commerce, Customhouse., San Francisco. Refer to file No. 68194.

STANDARDS FOR GRADE CROSSINGS ADOPTED.

American Railway Association Makes Specific Recommendations for Protection.

NEW YORK, N. Y.—Specific standards for protecting grade crossings on all railroads of the country, to lessen the likelihood of accidents, were adopted recently by the semi-annual meeting of the American Railway association. This action was taken on the recommendation of a committee which reported that largely because of the increased use of the automobile, accidents at grade crossings in many parts of the country have increased 1000 per cent in the last five years.

It is planned to standardize crossing signals throughout the country in order that motorists may easily recognize the warning. The special committee was authorized to join with a committee of the national association of railway commissioners in recommending standards to be followed and to obtain legislation in all the states requiring compliance with such standards.

Recommend Practices.

The association recommended five specific practices for adoption by public service commissions and other city or state authorities which have jurisdiction over railroads. These standards cover uniformity in approach warning signs; color of lights for night indication; use of a disc approximating 16 inches in diameter with the word "stop" painted thereon in large letters, instead of vari-colored flags now in use by crossing watchmen; painting of crossing gates alternate diagonal strips of black and white (somewhat like a barber's pole); rules govering crossing watchmen or flagmen while controlling or regulating street or highway traffic.

The circular disc, the railroad men explained, will eliminate the complaint that flags, now generally used, do not give automobile drivers sufficiently clear indication whether the flagman is urging them to stop or to cross.

CAPE TOWN DRAINAGE SCHEME.

Supplementing the report published in Commerce Reports for April 14, Vice Consul Charles H. Heisler has transmitted a copy of the report of the city engineer of Cape Town, South Africa, on the main drainage scheme of the southern suburbs of that city. It is expected that plans and specifications will be shortly placed before the public, bids called for, and construction started at the earliest possible date. The engineer's report referred to can be examined at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisca. Refer to file No. 75754.

KEYHOLD LATH TO BE PUT ON THE MARKET.

J. F. Makowski, for many years identified with the metal lath and furring business in San Francisco, has just returned from a year's trip of the Eastern states. He has perfected a patent keyhold lath which meets all requirements of the new ordinance permitting the use of plaster board and will shortly place keyhold lath on the San Francisco market.

The new lath uses any plaster board and is perforated so as to make a perfect key. Mr. Makowski is now in Los Angeles and will return shortly when he will be located at 3331 26th street.

THE NEWER FASHION IN SELLING GOODS.

By Herbert S. Houston

President, Associated Advertising Clubs of the World.

Time was when the buyer who was not expert in knowledge of what he bought was likely to come out a poor second on every purchase. Selling, in those time, was laborious sand expensive.

Then business men began to realize that it was possible so to organize a business that every customer should have a square deal and the public be induced to rely upon the seller's expert knowledge and the seller's desire for a trade that would be fair to all parties. That is the newer fashion in selling goods.

One of the agencies in bringing the public to a knowledge of this desire was advertising—it was the powerful educational force that was to revolutionize selling and to make the public feel safe in buying upon the reputation of the seller.

Advertising Misused.

It is not surprising, in a world which still has its fair share of selfish unconcern for the other fellow, that there should have arisen some business men who were willing to misuse this mighty force for good—this time-saver, this money-saver.

In their turn, those who desired that the force should be applied to good purposes and not to bad, discovered that these blemishes which had appeared upon the surface were likely to make the whole system seem bad in the public eye—that some there were who thought it rotten to the core. The few advertisers were hurting the many.

It was then that the Associated Advertising Clubs of the World arose and said to the crooked advertiser:

"Thou shalt not!"

Truth makes business pleasanter.

There are three laws against advertising misrepresentation.

Laws Against False Advertising.

First, there is the law of the land—legislation. That has been powerful toward keeping men straight as well as affording a means for the punishment of those who insist upon the crooked path.

Second, there is the law of pride. Liars do not have the respect and confidence of the public and the average business men is animated as much by a desire for leadership, a desire to be somebody in the community, as by a desire for those profits we measure in dollars and cents.

Third, and greatest of all, probably is the law of self-preservation. The business death rate is amazingly high among liars! Public confidence is an essential to successful selling—the first essential.

Business Men for Better Things.

Business men have sickened of the sinister things in business. They have realized, as never before, that the square deal is pleasanter—and more profitable—and as they have been converted, through their own natural hungering for better things, they have found the Associated Advertising Clubs, with a powerful central organization and with branches everywhere, ready to help them, ready to act as a great clearing house for this newly recognized national sentiment.

This tendency is so strong that all alert business men have observed it; Government officials have observed it; state legislatures have recognized it and have worked in harmony with it.

Not long ago, Joseph E. Davies, chairman of the Federal Trade Commission, remarked that the advertising interests of this country were doing, voluntarily and from within, what the Trade Commission was organized to do for other branches and phases of business from without. That expresses the situation in a direct, forcible way—and was a greater compliment ever paid any business?

Makes Advertising Pay.

The movement for absolute truth in advertising has had the heartiest support from business men. In communities where advertising clubs affiliated with the Associated Advertising Clubs of the World have carried on a vigorous campaign to eliminate the few remaining advertising misrepresentations, the merchants and other sellers of goods have backed the cause, morally and financially. They have been the mainstay of such movements—and why?

In the answer to that question is the crux of the whole matter—TRUTH IN ADVERTISING PAYS the advertiser, because it makes advertising pay the public better.

June 25 to 30, at Philadelphia, there will be a gathering of the men who have been doing this work—the annual convention of the Associated Advertising Clubs of the World. It will be a meeting not of mere advertising craftsmen, but of business men—members and non-members of the Associated Clubs. They will gather to find new courage for a still more vigorous effort to make advertising what they believe it is and should be—the servant of the buying public.

AN ASSOCIATION FOR NATIONAL DEFENSE.

The following letter received at this office is printed herewith in full, with a ballot form on national military training and full directions for its use. Send in your answers to this office. No names will be mentioned—merely the number of "ayes" and "nays" will be used to secure an expression from the people on this very important issue.

Washington, D. C. May 10, 1916.

To the Editor:

Sir: Amid the confusion of ideas as to how the question of national defense should be solved, the Association for National Service appeals to the Daily Press of the Country. It is asking every daily paper to take a referendum vote, of its readers, by using the inclosed ballot.

Every Secretary of War, from General Knox to and including Garrison, after carefully considering the problem, reached the conclusion that the only solution is Equal or National Military Training. This same view was held by Washington, Jefferson, and practically all the founders of our Government. Every member of Congress, who has given serious thought to the prob-

lem, will admit in private conversation that we cannot secure a sufficient force of trained citizen soldiers under our present so-called voluntary military system. The United States is the only country that now clings to this undemocratic, dangerous and vicious military system by which a few patriotic citizens and professional soldiers are depended upon for its defense.

England has just been forced to resort, first to Conscription and finally to adopt compulsory service exactly as this country did in the Civil War. The progressive portion of the British Empire, Australia and New Zealand, inaugurated a national military training policy some years ago, and as a result they are furnishing practically all the efficient soldiers that Great Britain has in the European war aside from the English Regular Army. This is not due to any lack of patriotism and bravery on the part of her people, but to the dependence upon the volunteer system to produce trained soldiers after the breaking out of war.

All of these facts are admitted by members of Congress and the authorities at Washington, but the advocates of National Military Training are continually met with the declaration that "the American people will not stand for it." The Association for National Service does not believe that the people will refuse to discharge their plain duty if the question is presented to them in the proper form. At any rate Congress should know just what is the sentiment of the country on this vital issue. There is no way in which it can be obtained better than by a direct appeal through the Daily Press.

The plan for conducting this vote, briefly, is as follows: At the close of each week you are requested to mail or wire the count of the vote so it will reach this office not later than Monday a. m. Wires should be sent prepaid as our funds are limited. The results will be tabulated by States and given to the press for publication alternately Tuesday morning and afternoon. The manner in which you may publish the result of this vote in your paper is optional with you.

May 16 it is proposed to open the poll for the vote in all of the papers which participate in the campaign. The Association for National Service will furnish two or three stories each week, at the head of which our form-ballot is to be printed. The first installment of these stories will be found inclosed. Of course you are at liberty to take issue with any statement in our material, or publish articles on the other side of the question, but we insist that we be given space to present the Association's views in the event that you undertake the referendum vote. Your agreement to take this vote and publish our material is not to be an endorsement of the principles we advocate.

Hoping that you can see your way clear to co-operate with us in securing an expression from the people on this issue, we are,

Respectfully,

ASSOCIATION FOR NATIONAL SERVICE, INC.

S. D. M. YOUNG,
President.

RECORD FOREIGN TRADE FOR MARCH.

According to preliminary figures compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce, 410 million dollars' worth of goods was exported from the United States in March. This exceeds the corrected total for February by 7 milion dollars and is more goods than any country ever exported before in any one month. It is 113 millions more than the previous March and is nearly double the March average for the preceding five years. In the nine months ending with March, exports fell less than 5 million dollars short of 3 billion dollars in value, thus exceeding by more than 1 billion dollars the record for the corresponding period of any preceding fiscal year.

March imports amounted to 214 million dollars, exceeding by 20 million the previous record of February, by 56 million the total for March, 1915, and by 50 per cent the March average for the preceding five years. Nine months' imports to March 31 last aggregated 1,505 million dollars, compared with 1,214 million last year and 1,402 in 1912-13, the former record year. Of March imports, 67.8 per cent entered free of duty.

Export Balance—Gold Movement.

The month's export balance was $196,000,000, compared with $139,000,000 in March, 1915, and $5,000,000 in March, 1914. For the nine months the present fiscal year to date shows an export balance of $1,491,000,000, being more than double that of last year and more than three times that of two years ago. Present indications point to an export balance of $2,000,000,000 by the end of the fiscal year.

Gold imports during March totaled $9,776,839, compared with $25,620,467 in March, 1915, and $7,842,249 in March, 1914, and for nine months to March 31, 1916, $337,831,231, against $71,887,676 in 1915 and $57,288,712 in 1914. Gold exports in March totaled $10,774,354, compared with $923,891 in March, 1915, and $2,632,049 in March, 1914. Gold exports in the nine months under review aggregated $58,515,929, compared with $141,310,900 last year. Nine months of the current fiscal year show a net inward gold movement of $279,315,302, as against a net outward movement of $69,423,224 in a like period of the preceding year and a net inward gold movement of $10,599,835 in nine months of 1913-14.—Commerce Reports.

GROWING SALES OF ASBESTOS FROM COUNTRY'S MINES.

On account of restrictions placed upon the shipments of asbestos from Canada, which is the world's chief source of supply, attention has been given by the United States Geological Survey to the possibility of utilizing the asbestos deposits in this country to an increased extent. Facts which the survey has furnished for the benefit of prospective purchasers of the domestic product are as follows:

In 1915 there was a great increase in the production of high-grade asbestos in Arizona. The lower-grade asbestos comes mainly from Georgia. Both Arizona and Georgia are capable of increasing their output. Some years ago (1911) Vermont had a productive mine, largely in the chrysotile variety of asbestos, in the same belt of rocks that contains the rich deposits of asbestos in Canada. For the last few years the mine has not been operation, but as a result of the Canadian embargo it may again become a valuable source of supply. Virginia in 1905 and 1906 produced a small quantity of low-grade asbestos that is still used in the manufacture of a local asbestos product. The fiber is of the amphibole variety and slip-fiber type. It was quarried near Body Camp and hauled 12 miles to a mill at Bedford City.

There has been much interest in the asbestos reported from the Casper Mountain and other regions in Wyoming. Some mills have been erected, but although there has been as yet no commercial production the quality of the fiber, in part chrysotile, is locally encouraging. Idaho has in the Kamiah region large deposits of material like that of Georgia. California has produced asbestos, generally of low grade, at a number of points.

On the whole the encouraging outlook in Arizona, which includes also the Grand Canyon region, with the possible resumption of production in Vermont and an increased production in Georgia, may be expected to make up at least part of the loss by embargo in Canada.

The United States marketed in 1915 1,731 short tons of asbestos of domestic production, valued at $76,952. Compared with the production of 1914 this represents a gain of 484 tons, or 39 per cent in quantity and 306 per cent in value.

In 1915 the cut was 1,119,628,000 board feet, as against 1,183,300,000 in 1913. These figures are compiled from the reports of 136 sawmills, having a daily capacity of 50,000 feet or more. Foremost among the woods was redwood. Of this timber 418,824,000 feet were cut, western pine was next with 389,991,000 feet; sugar pine was third, with 114,494,000 feet; next came Douglas fir, with 117,951,000 feet. California eucalyptus made 200,000 feet of the total. In addition to the total lumber cut given, there were 200,755,000 shingles, 38,284,000 laths, and 6,628,000 shakes manufactured in California in 1915.

"Why don't you announce yourself as a presidential candidate?"

"Because," replied Senator Sorghum, "I don't believe I could get nominated. And if I did get nominated I couldn't be elected. And if I did get elected I couldn't fill the position properly. And if I did fill it properly I wouldn't get much credit for it anyhow."—Washington Star.

UNITED STATES CIVIL SERVICE EXAMINATION.

ASSISTANT SHOP SUPERINTENDENT (MALE).

June 7, 1916.

The United States Civil Service Commission announces an open competitive examination for assistant shop superintendent, for men only, on June 7, 1916. From the register of eligibles resulting from this examination certification will be made to fill a vacancy in this position at $5.01 per diem in the Hull Di-

vision, Navy Yard, Philadelphia, Pa., and vacancies as they may occur in positions requiring similar qualifications in any navy yard or other naval establishment of the United States, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer, or promotion.

In filling vacancies in navy yards or other naval establishments certification will be made by the highest eligibles residing in the vicinity of the place at which the vacancy occurs, except that upon request of the Navy Department certification will be made of the highest eligibles on the register for the entire country who have expressed willingness to accept appointment where the vacancy exists.

The duties of the position consists of estimating, planning, and routing work, either repairs or manufacture, through the various shops of a large shipbuilding establishment. The appointee to this position must have a knowledge of plate and angle shop, pipe shop, joiner shop, and machine shop operations and the requirements for operating and maintaining equipment in the above-mentioned shops. He must be qualified to prepare specifications for the above, to arrange machines or other equipment in the various shops in order to obtain maximum efficiency of production, and to analyze production costs to determine what measures should be taken to increase productive efficiency.

Competitors will be examined in the following subjects, which will have the relative weights indicated:

Subjects.	Weights.
1. Practical questions	50
2. Training and experience	50
Total	100

Persons who meet the requirements and desire this examination should at once apply for Form 1312, stating the title of the examination for which the form is desired, to the United States Civil Service Commission, Washington, D. C., or to the Secretary of the United States Civil Service Board, at San Francisco, Sacramento and San Jose. Applications should be properly executed, excluding the medical and county officer's certificates, and filed with the Commission at Washington in time to arrange for the examination at the place selected by the applicant. The exact title of the examination as given at the head of this announcement should be stated in the application form.

Issued May 3, 1916.

POTASH IN LAKE MUDS OF WESTERN UTAH.

Potash in surprisingly large proportions is present in the brines and muds of the Salduro Marsh, a sink in the Salt Lake Desert, about 60 miles west of the southwest edge of Great Salt Lake. From the clays underlying the salt body which covers the marsh the U. S. Geological Survey collected samples at depths of 8 to 12 feet, in which the dissolved salts were found to contain from 2 to 3½ per cent of potash, and 2¼ per cent was found in the soluble salts at a depth of about 4 feet. Of the dissolved salts contained in the brines occupying the spaces between the salt crystals in the crust overlying these muds 3 to 4 per cent was found to be potash.

Singularly enough the salt crust left at the surface of the desert through the evaporation of the brines contains little more than a trace of potash, most of the potash being confined to the brines and to the muds underlying the salt crust. The successful extraction of this potash is a fascinating as well as most pressing problem for the chemical engineer. According to analyses made by the Survey, the brines and muds from the Salduro Marsh contain considerable magnesium chloride, as well as chlorides of potassium and sodium, and so are somewhat similar in composition to the deposits from which potash is manufactured in Germany. Therefore, it appears that success in methods for manufacturing potash at the Salduro Marsh should prove comparatively easy. While no extensive exploratory work has been done by the Survey to show the area of the deposit it is believed that the amount of potash present in the region, if it can be extracted with commercial success, is sufficient to provide a valuable source of supply to the country.

ALASKA SMASHES RECORDS.

The value of the mineral production of Alaska in 1915 amounted to $32.-854,229—$13,788,563 more than the value in 1914 and far more than that of any previous annual output during the 36 years that mining has been carried on in the Territory. The collection of mineral statistics of Alaska for 1915, just completed by Alfred H. Brooks, of the United States Geological Survey, shows that the value of the gold produced during the year amounted to $16,702,144, copper $15,139,129, and silver $543,393. Tin, lead, antimony, marble, gypsum, and a small amount of petroleum and coal bring the total value of Alaska's mineral products to $32,854,229.

Since 1880, when mining first began in Alaska, the Territory has produced gold, silver, copper, tin, and other minerals to the value of $300,953,751, the gold production alone to the close of 1915 amounting to $260,858,943. Of this gold, $186,192,992 worth was produced by the placers, the rest being derived from lode deposits.

WIDOW OF CELEBRATED ARCHITECT MARRIED.

NEW YORK—Mrs. William Hamilton Russell and Alexander S. Webb were married quietly at her home, No. 271 Lexington avenue. Mrs. Russell is the widow of the well known architect and was Miss Florence Sands. She is the daughter of the late James W. Sands.

Webb, who is president of the Lincoln Trust Company, is a son of the late General and Mrs. Alexander S. Webb and a brother of Mrs. John E. Alexander. He belongs to the Union and Manhattan clubs, the Society of Colonial Wars and Society of the Cincinnati.

PROOF OF ORIGIN FOR EXPORTS TO NEW ZEALAND.

Judging from some reports that have reached the Bureau of Foreign and Domestic Commerce in regard to trade conditions in New Zealand, it would be highly advisable for American exporters to that country to supply certificates of origin with their shipments. The regulations incident to the enforcement of the "Trading with the enemy act" and the general attitude of the New Zealand public toward goods of enemy origin are apt to give rise to complications, and American exporters should therefore make a special effort to prove the American origin of their goods. In the case of Australia, where a similar situation exists, manufacturers' invoices are accepted as proof of origin, and it may be assumed that such documents would be acceptable to the New Zealand authorities.

CONSTRUCTION WORK ABROAD.

INDIA.

Railways to Build Branch Lines.

Sanction has been accorded for the construction of the following branch lines of railway: A branch line on the meter (3.28-foot) gauge from Katakhal station on the Assam-Bengal Railway to Lalabazar, a distance of 23.30 miles; a branch on the 2.5-foot gauge from Larkhana, a station on the North Western Railway, to Jacobabad via Kamber and Shahdakot, a distance of 75.45 miles; a branch on the 2.5-foot gauge from Khulna to Bagirhaut, a distance of 20.53 miles; and an extension of the Phagwara Rahon Railway (5.5-foot gauge) from Nawashahr to Jaijon via Garhshankar, a distance of about 19 miles. Permission has also been given for an engineering and traffic reconnaissance survey by the South Indian Railway for a line of meter gauge between Arni, a station on its Villupuram-Katpadi section, and Padalam or Madurantakam, alternatively, a distance of 60 miles.

Sanction has been accorded to a detailed survey being carried out by the Madras & Southern Mahratta Railway Co. for a light railway on the meter gauge from Ollapalem to Kanigiri via Singarayakonda, a distance of about 45 miles.

Electrical Development in Mysore.

The Madras Times of March 20, 1916, prints a dispatch from its correspondent at Bangalore, Mysore, as follows:

In view of the growing demand for electric power on Mysore, Mr. S. G. Forbes, chief electrical engineer, has formulated two projects to supplement the present works at the Cauvery Falls. They are known as the Shimsha and Mekedatu schemes, and are estimated to cost about 67 lacs ($2,173,703) and 30 lacs ($973,300), respectively. An increase production up to 40,000 horsepower is provided for, with further possible increases. In discussing a paper on the subject before the Mysore Engineers Conference, Mr. Forbes suggests that a supply of from 3,000 to 4,000 horsepower might be supplied to Mysore City and that the railway from Bangalore to Myrose might be electrified He thinks that the schedule of trains over the 87-mile section could be so arranged that power consumption would be fairly uniform throughout the day at an avearge of 1,000 horsepower.

[Those interested should address Mr. S. G. Forbes, Chief Electrical Engineer, Mysore Government, India. Mr. Forbes is an American.]

A YEAR'S WORK AT THE FOREST PRODUCTS LABORATORY.

The Laboratory's Object.

The experimental work carried on at the Forest Products Laboratory, maintained by the Forest Service of the U. S. Department of Agriculture in co-operation with the University of Wisconsin at Madison, Wis., gave results during the past year which, like

the results of previous years, have a direct interest for the various industries which depend upon wood in some form for their raw material. To benefit both these industries and the consumers of their products by bringing about a better and more economical use of wood in all its forms in the object of the Laboratory's experiments. Obviously, with a field so broad, the investigation work must expand gradually, the most urgent problems being selected for study first. A study of the industries themselves is the usual method for deciding what these problems are. In the following brief summary of recent progress in the Laboratory's investigations, many of which must necessarily extend over several years before final results are obtained, the various projects are grouped according to the industry affected.

Dry Kiln Experiments.

Several years ago a humidity-regulated kiln, in which a number of the more refractory woods can be dried successfully, was patented by a member of the Laboratory staff, and the patent dedicated to the public. During the year just past the work in connection with this experimental kiln aimed chiefly toward a reduction of the time required for drying, particularly in the case of wood green from the saw. White fir, Alaska cedar, incense cedar, and Douglas fir were the woods used. Green white fir was successfully kiln-dried in 43 hours.

An unusual an uneven shrinkage in certain western woods, red cedar among others, was found to be due to a collapse or breaking down of the cells during drying. After this discovery it was possible to apply a remedy which entirely overcomes the trouble. For red cedar the solution of the problem is to keep the temperature below 135 or 140 degrees so long as the cell walls are wet. Redwood exhibits a similar tendency to collapse in drying, and it is probable that this occurs in a lesser degree in nearly all woods.

Improvements which simplify its construction and increase its efficiency were made in the Forest Service kiln. The year saw kilns of this type constructed by one of the eastern railroads and by two lumber companies.

The cause of casehardening and the condition of casehardened wood were studied. Anaylsis of the trouble and methods for preventing it were published in the trade journals.

Wood Block Paving.

Although wood seems to furnish an excellent material for street paving, the consumption for this purpose has fallen off 30 per cent since 1911. One of the chief reasons for this is the tendency of oil to exude from the treated blocks and of the blocks themselves to swell. Tests carried on by the Laboratory to remove these defects have been very successful, and the methods of treatment evolved have been adopted by the Committee on Paving of th American Society of Municipal Improvements and by several cities in the United States. Briefly, the method is to apply both a preliminary and a final vacuum in the course of preservative treatment.

Sap Stain.

The loss to lumber manufacturers caused by sap stain is estimated to be $7,000,000 annually. The Laboratory has discovered that in treating lumber to prevent sap stain, sodium fluoride gives results far superior to those obtained by the soda dipping process. Tests made in co-operation with lumber companies showed that in solutions of equal strength dodium fluoride is at least twice as effective as sodium bicarbonate. Besides preventing stain, sodium fluoride tends to protect the wood against decay-producing fungi.

Preservation of Piling.

Great destruction of piling, even when creosoted, is caused by marine borers. Tests made by the Laboratory, in co-operation with the bureau of Fisheries, are bringing to light better methods of preventing this loss. An examination during the year of test piling placed in the Gulf of Mexico indicated that the value of creosote as a protection against marine borers is increased by adding certain metal salts. It was also shown that light fractions of creosote have much less resistance than the heavy ones; that water-gas-tar creosotes are slightly less resistant than coal tar creosotes; that wood tars and their creosotes are not very resistant; and that crude oils are of no value as preservatives for piling.

Creosoted Wood in Silos.

Investigation by the Laboratory has shown that creosoted wood can be used in silos without contaminating the ensilage. This fact is important to lumber manufacturers, since silos furnish a promising field for the utilization of certain kinds of timber.

Fireproofing Tests.

An experimental fire house was constructed at the Laboratory, in which it is possible to duplicate conditions existing in modern offices. Several test fires were built in this house and the results promise to yield valuable data regarding the extent to which wood constitutes a fire hazard in modern buildings. Fire tests were made of 18 commercial paints designed for exterior use, of which only 5 proved to have fire-retarding properties. Unpainted test pieces used for comparison resisted ignition 43 seconds, while the 5 pieces just referred to resisted for periods varying from 1 minute 3 seconds to 2 minutes 10 seconds. Four interior paints tested gave good results in comparison with untreated wood. Patents were applied for, to be dedicated to the public, on a new fireproofing compound developed by the Laboratory.

Durability of Railroad Ties.

Inspections were made during the year by representatives of the Laboratory of 18 test tracks throughout the country maintained by various railroads in co-operation with the Forest Service, to determine under actual service conditions the exact value of preservative treatment for various kinds of tie woods. The knowledge thus gained is rapidly assisting in standardization of preservative methods. One additional test track was completed during the year. The most comprehensive report ever compiled on the durability of treated wood under actual service conditions was prepared by the Laboratory and presented at the meeting of the International Engineering Congress at San Francisco, September, 1915.

Relative Resistance of Untreated Wood to Decay.

About 70 species of hardwoods and 40 species of conifers were tested to determine their relative resistance to decay. Tests wer made both in a specially constructed fungus pit and in culture jars. The pit tests are not yet completed, but the jar tests showed that the sapwood of all conifers, except western cedar, western juniper, California juniper, and arborvitae, lost 60 per cent or more in weight during 12 months. Eastern arborvitae proved the most durable of the conifers, losing only 7.7 per cent in weight. The heartwood of all spruces, hemlocks, firs, and lodgepole pine also lost more than 60 per cent in weight. The resinous hard pines varied widely, the loss in weight ranging from 17 to 58 per cent. Eastern arborvitae, western red cedar, western juniper, Port Orford cedar, and California bigtree proved highly durable, the junipers and arborvitae particularly so.

Investigations to determine the effect of resin in wood upon its durability made definite progress, and indications are that the results will conflict with prevailing opinions.

Lumber Yard Sanitation.

Further field studies were made of conditions in lumber yards to determine the extent and cause of the decay existing in stored timber and the relation of this to outbreaks of rot in buildings. These studies show that an exceedingly bad condition exists in many lumber yards in respect to the sanitary handling of timber. The majority of dealers do not realize the full danger in supplying infected stock to the building trades, and take few precautions to maintain their material in sound condition. The "house fungus" (Merulius lachrymas) of Europe was found widely distributed in lumber yards in the eastern United States. Since the same fungus is often found in buildings in the same localities, it is probable that it is introduced in infected building material. It is hoped that through these investigations of the Laboratory the lumber dealers of the United States will give greater attention to keeping their yards in sanitary condition.

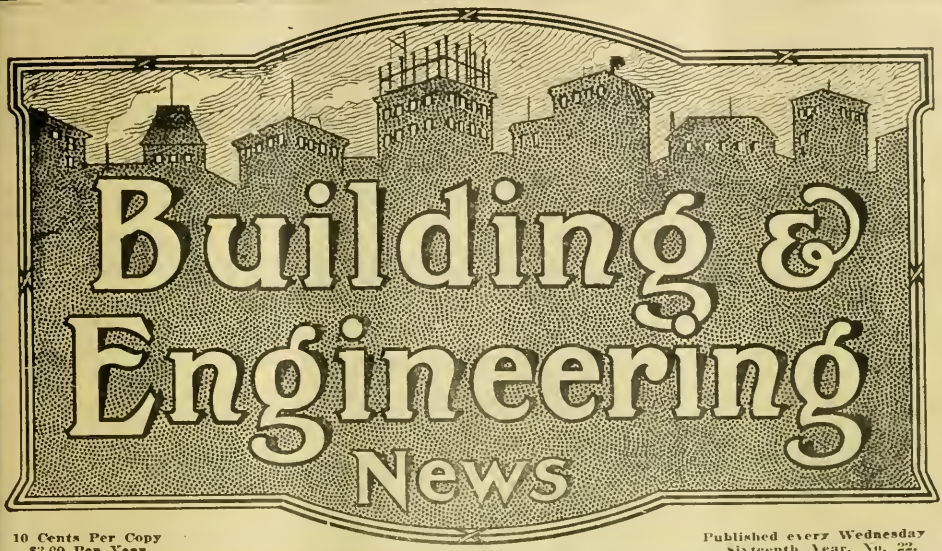
LAWN MOWERS AND GARDEN HOSE.

It is estimated that 1,000 lawn mowers and 500,000 feet of garden hose are sold annually in Victoria, British Columbia. Consul R. B. Mosher has furnished a list of dealers in lawn tools and similar supplies in that city, which may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to No. 75785.

DISPLAY OF ILLUMINATING GLASS WARE.

The Jefferson Glass Company, manufacturers of fine art illuminating glassware and specialties in glass for illumination have moved from their small show room, 251 Rialto Building, to a suite of rooms, entrance 203 Rialto Building, this city, and have equipped a studio for the display of glassware.

They extend an invitation to all architects, builders, or owners, but at the same time will say that there is nothing for sale direct in their studio, for they deal through the lighting fixture trade. The idea of their studio is to give the architects, builders and owners an opportunity of reviewing the advance ideas in lighting.



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GRAPHITE A WAR-TIME NECESSITY.

Because of its use in the manufacture of crucibles for melting metals and for foundry facings, graphite is a mineral resource of vital importance and in great demand in time of war. The extraordinary activity both in this country and abroad in the manufacture of munitions has greatly stimulated the graphite industry. Most of the established graphite mines in the Eastern States notably increased their output in 1915, and in the Ashland district, Ala., a number of new mines have recently been opened, most of which have not yet reached the producing stage. Early in 1916 active development work was also begun on a graphite deposit of much promise in the Llano region, in Texas.

The full effect of the increased demands will not be shown until these new concerns begin to market their product, but even in 1915, the output of natural crystalline graphite showed an increase of about 1,850,000 pounds over that for 1914.

Among the manufacturers of graphite products the crucible makers in particular have greatly increased their output, and many of them have been unable to meet the increased demands because of the difficulty of procuring suitable raw materials, crystalline graphite and refactory clay, in large enough quantities.

In spite of the activity among American graphite miners the output of American mines has been wholly inadequate to meet the domestic demands, and in 1915, as in previous years, the greater part of the graphite used in this country came from foreign deposits. In 1915 the graphite imported had a value about four times that of the domestic output of natural graphite. Most of the imports came from Ceylon, but some came from Chosen (Korea), Madagascar, Mexico, and Canada. The imports in 1915 exceeded in value, though not in quality, those for any previous year and amounted to 23,075 short tons, valued at $2,241,163.

The prices for the better grades of Ceylon graphite increased steadily during 1915 and at the end of the year were nearly twice as much as at the beginning. The high prices are the result of the increased demands, increased freight rates, war surchages, and higher rates of insurance. At the end of 1915 the freight rates from Ceylon to New York were approximately three times as much as before the outbreak of the war, and early in March, 1916, they had increased to about five and one-half times as much. The lower grades of Ceylon graphite were practically excluded from this market by the demand for the higher grades and the high freights.

Madagascar graphite increased in price from about 6 cents a pound at the beginning of the year to 11 and 12 cents at the end. Korean graphite increased from $25 to $40 a short ton, and in March, 1916, its price had reached $50 a ton.

The troublous conditions in Mexico reduced the imports of graphite from that country in 1915 to less than half the amount in 1914. The small Canadian production of graphite was almost entirely absorbed by the United States.

In addition to natural graphite the United States produces large amounts of manufactured graphite in electric furnaces at Niagara Falls. While this material is not suited for the manufacture of crucibles, its manufacture was also stimulated by the European war, because much of it is placed in the market in the form of graphite electrodes used in electric steel furnaces and in other electro-chemical industries. The number of electric steel furnaces in the United States is reported to have increased 78 per cent in 1915, and there were also great increases abroad: the resulting increase in the demand for graphite electrodes may readily be inferred. The graphite electrodes made at Niagara Falls range in size from the diameter of a pencil "lead" to 12 inches in diameter and 7½ inches long.

GOVERNMENT PUBLICATIONS FOR SALE.

The following were among the publications received in stock for sale by the Superintendent of Documents at Washington during the week ended May 13:

Lumber markets of the east coast of South America (Special Agents Series 112).—Full and specific information for American exporters of lumber and lumber products who wish to extend their trade in South America. Price, 25 cents.

[Postage stamps and defaced coins will not be accepted in payment for publications.]

PLASTERING WITHOUT LATHS IN SOUTHERN ITALY.

Buildings in Naples and in the southern part of Italy, generally, are of "tufa," a soft or porous stone. The walls are, as a rule, from 1 to 4 feet in thickness and are treated externally with stuccowork. Strips and laths are not used for interior work, but the wall to be plastered is first thoroughly wet and the first coat of plaster is then applied, having nothing to adhere to except the tufa. Later the putty coat is applied.

Cement for building purposes is coming gradually into use, the last figures available showing that, in 1914, 2,392 tons were imported into Naples, compared with 1,721 tons in 1913.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $20,000. Architect, none. Owner, O. H. Curtaz, 521 Hayes street, S. F. Location, west 7th street north of Natoma, covering an area of 59 by 56 feet. Will contain 17 apartments of two, three and four rooms. Interior finish pine, redwood and elm panels. Some hardwood floors. Steam heat, oil burning furnace and hot water supply. Bath rooms composition floors. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, French-California Wine Co. Location, northeast corner of Powell and Pacific streets. Will contain two stores on the ground floor and 13 apartments of two, three and four rooms on the upper two floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water circulating system. Bath rooms composition floors. Wall beds. Patent store fronts and marble bases. Exterior faced with brick veneer and shiplap. Plans nearly complete and figures to be taken shortly.

EUREKA, HUMBOLDT CO., CAL.—Apartment house, 3 story and base. Class C, $45,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owners, Daly Bros. Mercer-Fraser Co., Eureka, submitted the lowest figure for this work at $43,500, exclusive of plumbing, heating and fire escapes. Lamont & Richardson were second at $44,700. Both bids have been taken under advisement.

PORTLAND, ORE.—Apartment house, 4 story and base, brick, $60,000. Architect, none. Owner, H. O. Triplett, Chamber of Commerce Bldg., Portland. Location, west Gilsan and 23rd streets, covering an area of 50 by 96 feet. Will contain 36 apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Wall beds and vacuum cleaning. Bath rooms finished in tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick. Plans complete and segregated figures being taken by the owner.

LOS ANGELES, CAL. — Apartment house, 3 story and base. Class C construction, $25,000. Architect, Leonard L. Jones, Delta Bldg., L. A. Owner, G. C. De Garmo. Location, Fremont avenue between 3rd and 4th streets, covering an area of 50 by 150 feet. Will contain 50 rooms arranged in suites of two and three rooms with private baths and wall beds. Interior finish pine and white enamel with some hardwood floors. Steam heat, oil burning equipment, automatic elevator and hot water circulating system. Bath rooms tile. Exterior faced with cement plaster and pressed brick. Plans complete and segregated figures being taken.

Contracts Awarded

LOS ANGELES, CAL. — Apartment house, 2 and 4 story and base. Class C construction, $35,000. Architect, none. Owner, Mrs. C. Bart. Contractors, The L. F. C. Syndicate, Investment Bldg., L. A. Contract price, $35000.

BATH HOUSES.

Contracts Awarded.

CALISTOCA, NAPA CO., CAL.—Bath houses, 2, 1 story, concrete and frame, $25000. Architect, Frank S. Holland, Call Bldg., S. F. Owner, G. Ichari. Contractor, J. S. Hannah, Williams Bldg., S. F. Contract price, $25,000.

BONDS

DOYLE, LASSEN CO., CAL.—Work has been started on one of the largest irrigation projects in the State for some time. A party of Honey Valley ranchers have formed an irrigation district comprising 22,000 acres and have sold bonds against it amounting to $30 an acre. With this money water will be put on the land. Water will be diverted from Long Valley Creek and Last Chance Creek. A large reservoir is one of the large improvements planned. Wm. L. Wales, chief engineer of the district, states the construction work planned will cost $660,000, all of which is available.

RICHVALE, BUTTE CO., CAL.—By a vote of 77 to 3 the property owners of Drainage District 100, including 17,000 acres in this vicinity, ratified a bond issue of $150,000 for the construction of a drainage system.

Frank Robinson, engineer for the district, proposed to have construction work under way before fall and will commence at once to plan the seventy-nine miles of ditches which will drain the surface water of the district into Butte Creek.

MEDFORD, ORE.—This city has voted in favor of amending the charter authorizing the vote of the people on a $300,000 bond issue to finance the construction of a railroad to the Blue Ledge mines. A second election will be called to vote on the contract with a traction company, which, if accepted, will insure the construction work as soon as the bonds are put on the market.

PROSSER, WASH.—An election will be held in the Horse Heaven District, near Prosser on June 6, to vote $15,000,000 bonds for irrigating that section. L. M. Rice & Co., Central Bldg., Seattle, are engineers, and the Klickitat Irrigation & Power Co. will handle the construction.

The project will water 100,000 acres, includes a huge dam across the Klickitat River, several miles of tunnel work, concrete flume lines and open concrete and earth ditches.

COALINGA, FRESNO CO., CAL.—A movement is being promoted among the trustees to submit a bond issue project to secure about $25,000 for the erection of a city hall building and additions to the water system. A bond issue in the sum of $25,000 is also planned by the City Council. The improvements will consist of a 150,000 gallon steel tank, booster pump, auxiliary piping, etc. No date has been set.

PALMS, LOS ANGELES CO., CAL.—A bond issue in the sum of $15,000 for a new school is being considered by the National School District near here.

HERMOSA BEACH, LOS ANGELES CO., CAL.—Bonds in the sum of $20,000 for a new school are to be voted on shortly if present plans mature.

RIVERSIDE, RIVERSIDE CO., CAL.—A bond issue in the sum of about $100,000 for the rebuilding of bridges will be submitted to voters on August 29th.

CUCAMONGA, SAN BERNARDINO CO., CAL.—Bonds in the sum of $80,000 for the formation of a flood protection district in the Cucamonga district carried at the election held recently.

SAN DIEGO, SAN DIEGO CO., CAL.—The bond issue in the sum of $2,201,000 for highway construction, repair, bridge construction, and for building two county hospital buildings was defeated at the election held May 16.

HUNTINGTON BEACH, ORANGE CO., CAL.—The City Clerk has been instructed to advertise the sale of $10,000 worth of the $20,000 bond issue voted on December 28th, for the installation of a municipal gas system.

REDDING, SHASTA CO., CAL.—The issue of $15,000,000 worth of bonds for the completion of the State highway system was endorsed by the delegates to the annual convention of Supervisors in session here. The endorsement was almost unanimous.

VALLEJO, SOLANO CO., CAL.—The $80,000 school bond issue held last week was defeated. There were 865 votes cast in favor of the issue and 793 against.

BRIDGES, DAMS AND HARBOR WORK

STOCKTON, SAN JOAQUIN CO., CAL.—Bridge timber. Cost not stated. Engineer, County Surveyor Quail, Stockton. Owners, San Joaquin County. Bids will be received up to June 8th at 10 a. m. for furnishing all material, labor, tools and machinery and constructing a wooden trestle bridge over Big Dam Slough on the I. L. Borden road.

REDDING, SHASTA CO., CAL. — Bridges, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, Redding. Owners, Shasta County. The County Board of Supervisors has adopted plans and specifications for two bridges. Bids are to be received at the July meeting of the Board. A 40-foot span will be added to the bridge over Colver Creek near

llville and an 80-foot bridge will be ilt on Stillwater near the Leighton ace. Plans may be had from the ounty Clerk.

SACRAMENTO, CAL.—Bridge and eir, reinforced concrete and steel, 36,640. Engineer, City Engineer, Sacmento. Owners, City of Sacramento. ne sets of figures were opened by the cramento City Council for the conruction of a reinforced concrete idge and weir at their meeting Tuesy, May 23rd. Bids were taken on two opositions: Proposition B for both e weir and bridge, and proposition C r the bridge only. Bids of Teichert mbrose and of Howard S. Williams ere taken under advisement and a ntract will probably be awarded at iursday's meeting. A complete list the bids received will be found ider the heading of Sacramento and orthern California in this issue.

NAPA, NAPA CO., CAL.—Bridge, reforced concrete. Cost not stated. Enneer, County Surveyor, Napa. Owns, Napa County. Bids will be reived up to June 20th at 10 a. m. for e construction of a masonry and reinrced concrete highway bridge on the ild Horse Valley road about 200 rds west of the Harmony District hool house.

NAPA, NAPA CO., CAL.—Bridge, steel d concrete. Cost not stated. Engier, County Surveyor, Napa. Owners. npa County. Bids will be opened on e 20th at 10 a. m. for the building of o masonry and concrete highway idges across a branch of Capell Creek ar the residence of T. J. Bradshaw. e to be 14-foot span and the other to 22-foot span.

GARDINER, ORE. — Jetty construcn. Cost not stated. Engineer, Chrise, Gardiner. Owners, Port of Umpqua. P. Christie, secretary of the Port of npqua, is receiving bids until 8 p. m. ly 3rd, for constructing the north tty at the mouth of the Umpqua iver. The work is to be done in acrdance with plans and specifications file with Mr. Christie at Gardiner. bond issue of $200,000 was recently ld to handle the contract. A certified eck is required with each proposal. rther information may be had from r. Christie at Gardiner.

SAN LUIS OBISPO, SAN LUIS OBISO CO., CAL.—Bridges, steel and reforced concrete. Cost not stated. ngineer, County Surveyor, San Luis bispo. Owners, San Luis Obispo ounty. Bids will be received by the oard of Supervisors up to 10 a. m. of ine 6th for the construction of the llowing bridges: (1) A 40-foot span irforced concrete beam bridge across e Pozo Creek on the San Jose Valley id La Panza road, about 20 miles om the Southern Pacific Railroad ation at Santa Margarita. (2) A 150-ot span steel truss bridge across the linas River on the Rinconada and is Pilitas road, about 7 miles from e Southern Pacific Railroad station Santa Margarita. Separate bids ust be filed for each structure, and accordance with plans and specifiations on file at the office of the Clerk.

SAN LUIS OBISPO, SAN LUIS OBISO CO., CAL.—Bridges, 4, reinforced oncrte and steel. Cost not stated. ngineer, County Surveyor, San Luis bispo. Owners, San Luis Obispo ounty. Bids will be received by the oard of Supervisors up to 10 a. m. of ine 6th, for the construction of the llowing bridges: (1) A 50-foot, reinforced concrete arch bridge across Pico Creek, about four miles from steamer landing at San Simeon. (2) A 48-foot, reinforced concrete arch across the Arroyo del Puerta, about one-eighth of a mile from steamer landing at San Simeon. (3) A 40-foot, reinforced concrete bridge on Ocean avenue in town of Cayucos, about one-eighth of a mile from steamer landing at Cayucos. (4) A concrete girder bridge of two 50-foot spans across Toro Creek, about three and one-half miles from steamer landing at Cayucos, in accordance with plans and specifications on file at the office of the Clerk of the Board. Separate bids for each bridge required.

VISALIA, TULARE CO., CAL. — Bridges, steel and reinforced concrete, $15,000. Engineer, County Surveyor B. O. Lovelace, Visalia. Owners, Tulare County. The Supervisors of Tulare County will consider in their June session the plan to improve the State highway further with the construction of new bridges. Included in the estimates to be submitted by County Surveyor B. O. Lovelace is the second half of the Kingsburg bridge over Kings River on the State highway at largest item will be a new bridge over Tule River known as the Rockford bridge at a cost of about $8,000. A new bridge over the Bayou south of Tulare will also have to be built. The county has just completed the new span over one-half of Kings River at Kingsburg build the second span in the new fiscal year. Further mention will be made of this work.

Contracts Awarded

SANTA CRUZ, CANTA CRUZ CO., CAL.—Bridge, reinforced concrete, $15,400. Engineer, County Surveyor, Santa Cruz. Owners, Santa Cruz County. The County Supervisors have awarded the contract to Tieslau Bros., 110 Jessie street, S. F., for the construction of a steel bridge over Rodeo Gulch on the Soquel and Watsonville road. Their bid was $15,400. Other bids were as follows: C. E. Cotton, Oakland, $15,841; A. Mattson Co., S. F., $16,227; McCrae & Layez, S. F., $15,943; Mesmer & Rice, Los Angeles, $16,600; F. F. Moore, Monterey; $16,795; W. L. Gilham & Son, San Jose, $18,730; Midland Bridge Co., Kansas City, Mo., $17,400; Nelson Mosher, $16,498.25; Golden Gate Iron Co., S. F., $19,674.

VENTURA, VENTURA CO., CAL.—Bridge abutments, reinforced concrete. Cost as follows. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractors, Hunter Bros., Ventura. Contract prices, Casitas bridge, $2,365; La Crosse bridge, $4,900.

SANTA ROSA, SONOMA CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma and Marin Counties. At the last meeting of the County Supervisors the County Clerk was instructed to advertise for bids for the 150-foot bridge and the two 20- foot culverts to be built near Valley Ford. This bridge is to be erected and paid for jointly by Sonoma and Marin Counties. Plans may be had from the County Clerk at Santa Rosa.

WEAVERVILLE, TRINITY CO., CAL. Suspension bridge, $4,500. Engineer, County Surveyor, Weaverville. Owners, Trinity County. Bids are now being taken for the construction of a cable suspension bridge, 286-foot span, 70-foot approach steel towers and 8-foot roadway. Plans and specifications can be secured from the County Clerk.

CON AWARD thtrCfeet

FALL CITY, WASH.—Bridge, reinforced concrete. $36,845. Engineer, City Engineer Denton, Fall City. Owners, Fall City. Contractor, A. Levengreen, 3826 Eastern avenue, Seattle. Contract price, $35,845.

CHURCHES

Contracts Awarded

NAPA, NAPA CO., CAL.—Church, 1 and 2 story and base, reinforced concrete, $27,975. Architect, L. M. Turton, Napa. Owners, Methodist Episcopal Church of Napa. Contractor, W. M. Coffield, Napa. Contract price, $27,975.

FACTORIES AND WAREHOUSES

SAN FRANCISCO — Coal yard, 1 story, frame, $3,800. Architect, W. S. Rhodes, 5372 16th street, S. F. Owners, W. G. Stafford Coal Co., 234 Stuart street, S. F. Location, south Geary east of 10th avenue, covering an area of 100 by 100 feet. Pine interior trim in office portion. Exterior covered with rustic and cement plaster. Plans com- Labor.

BERKELEY, ALAMEDA CO., CAL.—Municipal shop and barn, 1 story, brick and steel, $10,000. Architect, W. H Ratcliff, Jr., First National Bank Bldg., Berkeley. Owners, City of Berkeley. Plans are complete and now out for figures for the new municipal shop and barns to be erected in West Berkeley. Cement floor. Exterior faced with stock brick. Plans can be secured from the architect.

OAKLAND, CAL.—Industrial plant, 3, 1 story and base, steel and concrete, $300,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Textile Mfg. Co. Location, Seminary avenue. The plant will consist of a group of one-story steel frame buildings with exterior walls of brick and concrete. The machinery building will be 224 by 80 feet, the weavers" department, 212 by 80 feet and the finishing and dyeing department, 150 by 50 feet. Large areas in both walls and roofs will be covered with glass. Construction will be in charge of Edward Sommarstrom, 202 East 12th street, Oakland, and will start about June 15th.

SACRAMENTO, CAL.—Warehouse, 1 story, hollow tile, $8,000. Architect, A. Willoner, 2430 L street, Sacramento. Owners California Almond Growers' Association. Location, 18th and P streets. Construction, Dennison hollow block. Cement floor. Exterior faced with cement plaster. Plans being prepared.

PORTLAND, ORE.—Factory, 5 story and base, reinforced concrete, $150,000. Architect, Engineering Department, American Can Co. Owners, American Can Co. Location, Cedar and Railroad avenue, covering an area of 120 by 240 feet. Fireproof construction, hollow tile interior partitions. Elevators and steam heat. Metal window sash and frames. Fireproof doors. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

WILMINGTON, LOS ANGELES CO., CAL.—Warehouses, 2, 3 and 1 story and base, reinforced concrete, $60,000. Architects, Mayberry & Parker, Pacific

building will cover an area of 84 by Electric Bldg., L. A. Owners, Los Angeles Warehouse Co. Three-story 200 and the one-story 50 by 240 feet. Construction fireproof. Metal window sash and frames and fireproof doors. Interiors finished in pine. Automatic sprinklers. Exteriors faced with cement plaster. Plans complete and figures being taken.

FLATS

SAN FRANCISCO—Flats, 3 story and base, frame, $8,500. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, south Vallejo east of Leavenworth. Will contain three flats of four and five rooms. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

SAN FRANCISCO—Flats 2 story and base, frame, $3,500. Architect, F. Munk, 78 Francis street, S. F. Owner, George F. Munk and wife. Location, north Francis west of Mission. Will contain two flats of five rooms each. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms composition floors. Automatic water heater. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

SAN FANCISCO—Flats, 3 story and base, frame, $5,000. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, H. De Martini. Location, southeast Auburn and Pacific streets. Will contain three flats of five rooms and bath. Interior finish pine, redwood and white enamel. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $4,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owners, Deitemeier Piano Co., 853 Valencia street, S. F. Location, Valencia between 19th and 20th streets. Will contain a store in the first floor and a modern flat of five rooms above. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile mantel. Marble bases. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,350. Architect, none. Owner, A. Melander, 1621 Lake street, S. F. Location, north Clement west of 15th avenue, covering an area of 25 by 72 feet. Will contain two flats of five rooms and bath. Basement garage. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with shiplap and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flats, 2 story and base, frame, $1,500. Architect, none. Owner, Charles Mitchell, 324 24th avenue, S. F. Location, east 24th avenue south of California. Will contain two five room flats with bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor under the direction of J W.. Mullen 2018 Parker street, Berkeley.

SAN FRANCISCO—Flats alteration and addition, 2 story, frame, $6,000 to $7,000. Architect, W. S. Rhodes, 3372 16th street, S. F. Owners, Deitmeier Piano Co., 853 Valencia street, S. F. Location, Valencia street between 19th and 20th streets. Work will consist of raising the present building, adding a story and complete rearrangement of interior partitions. New interior trim, hardwood floors, plumbing, electric work, painting and plastering will be required. Exterior will be covered with cement plaster. Plans complete and work to be done by Day Labor.

GARAGES

OAKLAND, CAL.—Garage, 1 story and base, brick, $5,000. Architects, Oliver & Thomas, Pantages Bldg., Oakland. Owner, S. C. Booth. Location, 35th and Telegraph avenue, covering an area of 55 by 110 feet. Designed for a commercial garage and will contain the usual storage space, office and wash rooms. Interior trim pine. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with stock brick. Plans being prepared.

CON AWARD (H

OAKLAND, CAL.—Garage, 1 story and base, brick and steel, $20,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Mr. Stark. Contractor, Edward Sommarstrom, 202 East 12th street, Oakland. Contract price, $20,000.

SEATTLE, WASH.—Garage, 3 story and base, concrete and brick. Cost not stated. Architects, Webster & Ford, Green Bldg., Seattle. Owner, Joshua Green. Contractors, MacRae Bros., Empire Bldg., Seattle. Contract price not stated.

GOVERNMENT WORK & SUPPLIES

Reclamation Service, Sluice Gates.

The following bids were received May 15 by the chief engineer, U. S. Reclamation Service, Washington, D. C., for furnishing steel and cast iron sluice gates, gate frames, lifting devices, etc., for the Milk River project, Mont.:

Item 1, 2 bronze mounted cast iron gates and frames, 5x6 ft; 2, do, 4x5 ft; 3, 3 cast iron gates and frames, 3-A, alternate for item 3; 4, 72 cast iron gates and frames; 4-A, alternate for item 4; 5, 77 steel gates with gate supports and accessories; 6, steel stop plank gujdes and accessories.

Penn Bridge Co., Beaver Falls, Pa., item 5, $1,300; 6, $1,085; time January 15, 1917.

Stacey-Schmidt Mfg. Co., York, Pa., item 1, $2,350; 2, $2,050; time August 30.

Hardie-Tynes Mfg. Co., Birmingham, Ala., item 2, $1,745; time August 15; 3, $2,203, time August 15.

Lakeside Steel and Bridge Co., North Milwaukee, Wis., item 1, $2,600, 90 days; 2, $2,000, 90 days; 3, $1,370, 90 days; 3-A, $970, 75 days; 4-A, $3,070, 60 days; 5, $748, 45 days; 6, $271, 45 days.

Joshua Hendy Iron Works, San Francisco, Cal., item 1, $2,240; 2, $1,170; 3, $993; time July 25.

Vulcan Iron Works, Denver, Colo., item 1, $1,681; 2, $1,372; 3, $941; 3-A, $772; 4-A, $2,640; 5, $1,320; 6, $456; 120 days.

Minneapolis Steel and Machine Co., Minneapolis, Minn., item 1, $2,040, 6 months; 2, $1,900, 6 months; 3, $1,320, 3 months; 3-A, $1,000, 3 months; 4-A, $3,390, 3 months; 5, $1,030, 3 months; 6, $300, 3 months.

Los Angeles Harbor, Dredging.

Bids for dredging in Los Angeles Harbor, Cal., were received at the U. S. engineer office, Central Building, Los Angeles, Cal., on May 10, as follows:

Standard American Dredging Co., 325 Central Building, Los Angeles, Cal., $30,230.50.

Los Angeles Dredging Co., 320 Story Building, Los Angeles, Cal., $33,217.50.

San Francisco Bridge Co., 1005 Nevada Bank Building, San Francisco, Cal., $27,501.

Wood Stave Pipe.

The following bids were received May 5 by the U. S. reclamation service, Fort Shaw, Mont., for erecting about 575 feet wood stave pipe:

Item 1, fir staves; 2, redwood staves; 3, valve.

Pacific Tank and Pipe Co., San Francisco, Cal., item 1, $12.63; 2, $13.50; 3, $55.

National Tank and Pipe Co., Portland, Ore., item 1, $12.98; 3, $82.50.

Portland Wood Pipe Co., Portland Ore., item 1, $14.08; 3, $79.

Keyport, Wash., Steel Towers.

The contract for 2 400-foot steel towers for the naval radio station, Keyport, Wash., has been awarded to Martin & Dugan, of Seattle, Wash., at $38,055.

Umatilla Project.

The Reclamation Service is asking for proposals for construction in connection with the Umatilla project in Oregon. The work involves the widening of 20 miles of canal, the excavation of about 168,000 cubic yards of material, and the placing of about 370 cubic yards of concrete. The work is located near Hermiston, Ore. Bids will be opened at the office of the United States Reclamation Service at Hermiston, Ore., on June 15, 1916. For particulars address the U. S. Reclamation Service, Washington, D. C., Denver, Colo., or Hermiston, Ore.

Fort Shaw, Mont., Wood Stave Pipe.

The following bids were received at the U. S. reclamation service, Washington, D. C., May 5 for furnishing and erecting 575 feet 96-inch diameter wood stave pipe:

Pacific Tank and Pipe Co., 5th and Bryant streets, San Francisco, Cal., schedule No. 1, item 1, pipe, $7,262.25; valve, $55; schedule No. 2, pipe, $7,762.50; valve, $55.

National Tank and Pipe Co., 275 Oak street, Portland, Ore., schedule No. 1, pipe, $7,463.50; valve, $82.50; no bid on schedule No. 2.

Portland Wood Pipe Co., P. O. box 1184, Portland, Ore., schedule No. 1, pipe, $8,096; valve, $79; no bid on schedule No. 2.

Lighthouse Service, Air Compressor.

The lighthouse inspector, 18th district, San Francisco, Cal., has award-

ed the contract for two horizontal distillate engine-driven air compressors to the Doak Gas Engine Co., Oakland, Cal., at $3,490.

Bozeman, Mont., Bulletin Boards.

The contract for furnishing four bulletin boards, shelving, etc., for the U. S. post office at Bozeman, Mont., has been awarded to J. B. Cain, Bozeman, Mont., at $156.

Denver, Colo., Shelving.

The contract for installing shelving in the U. S. public building at Denver, Colo., has been awarded to H. E. Sadler Furniture Co. at $675.

Los Angeles, Cal., Repairs.

The contract for repairs to mailing platform of the U. S. post office at Los Angeles, Cal., has been awarded to Lynn S. Atkinson, Los Angeles, Cal., at $2,875; time 60 days.

Leadville, Colo., Repairs.

The following bid was received by the custodian, U. S. post office, Leadville, Colo., recently for repairs to main entrance, etc., of the above building: Eugene Robitaille, Leadville, Colo., $4,850; 90 days.

Reclamation Service, Structures.

The Reclamation Service has awarded contract to the Security Bridge Co., of Minneapolis, Minn., for structures, schedule 2, Bowdoin Canal system, Milk River irrigation project, Mont. The contract involves 6,000 cubic yards of excavation, 390 cubic yards of reinforced concrete, 720 square yards of paving, and the placing of 17,000 pounds reinforcement steel and 50,000 feet, B. M., of lumber in wooden structures. The work is located about three miles east of Malta, Mont., on the Great Northern Railway. Contract price is estimated at $12,940.

Earthwork and Structures.

The Reclamation Service is asking for proposals for earthwork and structures in connection with the Bowdoin Canal, Milk River irrigation project, Mont. This work involves about 134,000 cubic yards of excavation, 200 cubic yards of reinforced concrete, 450 square yards of paving, the placing of 14,000 pounds of reinforcement steel, and the placing in wooden structures of about 50,000 feet, B. M., of lumber. The work is located about 15 miles east of Malta, Mont., near Bowdoin Station, on the Great Northern Railway. Bids will be opened at the office of the U. S. Reclamation Service, Malta, Mont., on June 22. For particulars address the U. S. Reclamation Service, Washington, D. C., Denver, Colo., or Malta, Mont.

Sitka, Alaska, Repairs, Etc.

The contract for repairs, etc., in the custom house at Sitka, Alaska, has been awarded to George B. Rice at $525.50.

Pendleton, Ore., Furniture.

The contract for installing furniture in the U. S. post office at Pendleton, Ore., has been awarded to Budde & Weis Mfg. Co., Jackson, Tenn., at $1,780.50.

Contracts Awarded

FORT HUACHUCA, ARIZ.—Barracks 9, brick, concrete and frame, $91,000. Engineer, Constructing Quartermaster, Fort Huachuca. Owners, United States Government. Kelly & Beahls, Leavenworth, Kans., have been awarded a contract at $91,000 for the erection of nine new buildings at Fort Huachuca. The electric wiring was awarded to the Lawrence Electric Co. of El Paso, Texas, and laundry machinery to Troy Laundry Company. The administration building will be two stories and basement, 32 by 54 feet, concrete foundation, brick walls and common brick facing, or hollow tile walls with plastered exterior; asbestos shingle or slate roof; interior plaster on metal lath, pine trim and floors, hot water heating system, etc. The laundry building will be two stories, 40 by 92 feet, of reinforced concrete construction. The barracks will be two stories, 29 by 120 feet, exterior and interior plastered on metal lath, shingle roof. The captains' quarters will be two stories, 42 by 32 feet, exterior and interior plastered on metal lath. The stable, guard and shop buildings will be one story, 32 by 52 feet, of frame construction.

HALLS AND SOCIETY BUILDINGS.

SAN ANSELMO, MARIN CO., CAL.—Country club, 1 story, frame, $7,000. Architects, Mitchell & Hodges, Bankers' Investment Bldg., S. F. Owners, Hearthstone Country Club. Will contain large social rooms, private rooms, dining room and kitchen and locker rooms. Interior finish pine and redwood with some hardwood floors. Open fire place and stone mantel. Exterior covered with cement plaster. Plans complete and figures being taken.

HOSPITALS.

SAN FRANCISCO—Hospital ward, 2 story and base, reinforced concrete, $45,000. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, replacing Ward J at the Letterman General Hospital, Presidio of San Francisco. Will cover an area of 30 by 108 feet. Fireproof construction. Metal window sash and frames and hollow tile interior partitions. Hardwood floors. Tile and white enamel trim. Clay tile roof. Steam heat from central system. Hot water supply. Exterior faced with cement plaster. Plans complete and figures being taken. Bids open on June 8th.

SAN FRANCISCO—Hospital heating system. Cost not stated. Engineer, U. S. Building Superintendent Roberts, 402 Post Office Bldg., S. F. Owners, United States Government. Bids will be received on June 12th for repairs to the present heating system in the U. S. Marine Hospital, and also for the installation of new boilers. An official proposal appears in another column of this issue.

HOOPA VALLEY, HUMBOLDT CO., CAL.—Hospital ward, 1 story, frame. Cost not stated. Architect, none. Owners, United States Government. Bids will be received by the Department of Indian Affairs at Washington, D. C., on June 13th for constructing a one-story frame hospital building at the Hoopa Valley Indian School. Plans and specifications can be secured from the U. S. Indian Warehouse, 608 Howard street, S. F.

STOCKTON, SAN JOAQUIN CO., CAL.—Hospital cottages, 2, 1 story, concrete and frame. Cost not stated. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received up to June 19th at 12 noon for constructing two frame cottages for physicians at the Stockton State Hospital. Interior finish pine with some hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Exterior shingles and cement plaster. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

LOS ANGELES, CAL.—Hospital, 10, 1 story frame, steel and concrete, $250,000. Architect, John Schultz, Wright and Callender Bldg., L. A. Owner, Los Angeles County. The proposed buildings will consist of ten units, each one story high, 36 by 120 feet, divided into three sections, the central, or enclosed part, and two screened sleeping wards. The new plans will provide for buildings with structural steel framework, concrete foundations, concrete floor slabs, hollow tile filler walls, wood frames, composition roofing and especially designed adjustable roofs. This work was formerly in the hands of the county architectural department. Plans are being prepared.

PUYALLUP, WASH.—Masonic home, 3 story and base, brick, $30,000. Architect, Andrew Willatzen, Boston Block, Seattle. Owners, Masonic Relief Association. Will cover an area of 40 by 80 feet and contain 40 rooms and six baths. Interior finish pine and white enamel. Some hardwood floors. Steam heat, hot water supply and oil burning furnace. Bath rooms tile. Exterior faced with pressed brick. Plans complete and figures being taken.

HOTELS.

LINDSAY, TULARE CO., CAL.—Hotel, 2 story and base, frame. Cost not stated. Architects, Merrill Bowser, care of Glass & Butner, Rowell Bldg., Fresno. Owner, G. T. Edwards, Hotel Lindsay. Will contain 26 rooms, several baths and office, lobby and dining room. Interior finish pine and redwood. Hot water system and steam heat. Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans being prepared.

IRRIGATION PROJECTS

Contracts Awarded

MODESTO, STANISLAUS CO., CAL.—Irrigation dam, reinforced concrete, $89,487.50. Engineer, Chief Engineer Herrmann, Modesto. Owners, Modesto Irrigation District. The contract to complete the work of Peart Bros. in construction of dam No. 1 of the Dallas reservoir in which they failed, was awarded to the Tibbitts-Pacific Co., 16 California street, S. F., by the Board of Directors of the Modesto Irrigation District for $89,487.50. Three bids for the construction were before the board for consideration, the lowest being $81,700 by the Blake Bros. Co. This bid, however, had conditions attached which were objectionable to the board. The other bid, the highest, was $122,892.50 by the Ross Construction Co.

RESIDENCES

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, A. T. Morris, 501 11th avenue, S. F. Location, west 9th avenue north of Cabrillo. Will contain five rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $4,000. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, Mrs. William Koenig. Location, northwest 12th avenue and Cabrillo. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Location, east 28th avenue south of Lincoln Way. Will contain six rooms, bath and basement garage. Interior finish pine and elm panels with some enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owners, Costello & Ferrick, 204 San Carlos avenue, S. F. Location, east 17th north of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $2,000. Architect, none. Owner, John Bjorkman, 1239 Athens street, S. F. Location, south 20th street east of Sanchez. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $8,500. Architect, Smith O'Brien, Humboldt Bank Bldg., S. F. Owner, Harry T. Blackwood Location, north Jackson near Cherry. Will contain nine rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and hot water circulating system. Open fire places and tile or brick mantels. Bath rooms tile. Exterior finished with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO — Residences, 2, 2 story and base, frame, $2,800 each. Architect, none. Owner, N. J. Nelson, 547 Elizabeth street, S. F. Location, east 2nd avenue south of Clement. Each house will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence alterations, $2,000. Architect, none. Owner, Charles A. Kieruiff, 2605 Fulton street, Berkeley. Location, 237 Moss street. Work will consist of interior and exterior alterations, mill work, hardwood floors, painting, plastering, plumbing and electric work. Plans are complete and work will be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none. Owner, E. H. Morison, 5423 Grove St., Oakland. Location, south Laverne west of 55th avenue. Will contain five rooms and bath. Interior finish pine and redwood with some hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, A. R. Dexter, 2212 Grove street, Oakland. Location, Fairview near Jerome. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $5,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, Mr. Adams. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Stparate garage. Exterior faced with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL. — Residence, 1½ story and base, frame, $3,500. Architect, none. Owner, G. Armstrong, 1639 Alcatraz avenue, Berkeley. Location, north Mandana Boulevard east of Paloma. Will contain seven rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, J. C. Pfrang, 5468 Claremont avenue, Oakland. Location, east Ellsworth south of Ward. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, Mrs. Alpha Hollis Location, Northbrae. Will contain eight rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 2 story and base, frame, $3,000. Architect, none. Owner, Alpheus Duffee, 685 Dolores street, S. F. Location, west 10th avenue near Kirkham. Will contain six rooms and bath. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Joe St. Mary, 9257 East 14th street, Oakland. Location, east Auseon north of Blanch. Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Edward Grandin, 1533 Prince street, Berkeley. Location, south Aileen west of Adeline. Will contain four rooms and bath. Interior finish pine and redwood with some white enamel and hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, Jennie C. Wintermute. Location, Shafter and Pryal. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Residences, 7, 1 and 2 story, frame, $2,500 to $4,000. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner A. F. Werum. Location, Yosemite Terrace. The dwellings will contain from six to eight rooms, baths and sleeping porches. Interiors finished in pine, redwood and hardwood with white enamel in the bed rooms. Furnace heat in the larger dwellings. Open fire places and brick and tile mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic, shingles and cement plaster. Plans complete and owner taking segregated figures.

SACRAMENTO, CAL. — Residence, 2 story and base, frame, $3,500. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, near Sacramento. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors.

Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with shingles. Plans being prepared.

NAPA, NAPA CO., CAL.—Residence, 2 story and base, frame, $10,000. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner, Mr. Hollinger. Will contain twelve rooms, three baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

REEDLEY, FRESNO CO., CAL.—Residence, 1 story and base, frame. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owner, Attorney Tackaberry. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

MONTECITO, SANTA BARBARA CO., CAL.—Residence, 2 story and base, hollow tile and concrete, $80,000. Architect's name not stated. Engineer, F. F. Fournoy, Santa Barbara. Owner, David B. Jones, Arlington Hotel, Santa Barbara. Work will be done by John Williamson, Santa Barbara.

SAN FRANCISCO—Residences, 2, 2 story, attic and base, frame, $15,000 each. Architect, G. A. Applegarth, Call Bldg., S. F. Owners, G. A. Applegarth and Charles Lawrence. Location, Vallejo between Devisadero and Broderick. Each house will contain twelve rooms, three baths and sleeping porches. Separate garages will be erected. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water, hot water circulating systems and vacuum cleaning. Bath rooms finished in tile and equipped with showers. Exteriors faced with cement plaster. Plans complete and contracts for grading and excavation awarded. Segregated figures on other parts of the work being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, John Lindquist, 1709 Channing Way, Berkeley. Location, north Channing Way west of Roosevelt. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

LOS ANGELES, CAL.—Residence, 2 story and base, stone and plaster. Cost not stated. Architect, none. Owner, F. P. Bacon. Contractors, De Lux Building Co., Union League Bldg., L. A. Contract price not stated.

SCHOOLS

MERCED, MERCED CO., CAL.—School, 1 story and base, reinforced concrete, $150,000. Architect not selected. Owners, Merced High School District. At the Friday meeting of the Merced High School Trustees all competitive drawings with the exception of those submitted by Architect Charles Bigger of Bakersfield and Joseph De Remer, associated with Architect Hewett of Los Angeles, were rejected. These two sets of plans will receive further consideration and a selection will be made from one of these two. The building will be one-story reinforced concrete structure designed for high school purposes.

WASCO, KERN CO., CAL.—School, 1 story and base, frame, concrete and hollow tile. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco Union High School District. Bids will be received until June 12th at 1 p. m. for furnishing all labor and materials necessary in the erection and completion of a one-story and base, concrete, brick, including metal lockers, heating system, pump house and water systems, swimming tank and irrigating system, agricultural building, janitor's cottage, vehicle sheds, basket and tennis courts, sidewalks and electroliers, walks and curbing, pergolas and science fixture furniture.

FRESNO, FRESNO CO., CAL.—School, 1 story, frame, $3,500. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Navelencia School District. Will contain one class room. Interior finish pine. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

VISALIA, TULARE CO., CAL.—Schools, 3, 1 and 2 story, brick or hollow tile, $150,000. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, City of Visalia. These architects have been selected to prepare plans for the three new school buildings to be erected as a result of the recent bond election. Further details will be given as plans progress.

ALAMEDA, ALAMEDA CO., CAL.—School painting. Cost as follows. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, City of Alameda. Three bids for painting in the Washington School, Alameda, were received by the Board of Education. All figures were taken under advisement: W. P. Baker Co., $2,200; D. Zelinsky & Son, $1,700; Tozer Bros., $1,300.

BERKELEY, ALAMEDA CO., CAL.—Mechanical equipment. Cost not stated. Engineer's name not given. Owners, Regents of the University of California. Bids will be opened on June 9th at 9 a. m. for furnishing mechanical equipment for the University power plant. An official proposal appears in another column of this issue.

MANTECA, SAN JOAQUIN CO., CAL. School, 1 story, frame, $3,500. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owners, Manteca School District. Will contain two class rooms. Interior finish pine. Exterior covered with rustic and shingles. Plans complete and figures being taken.

MARTINEZ, CONTRA COSTA CO., CAL.—School, 1 and 2 story, reinforced concrete or hollow tile, $50,000. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Martinez. Will contain ten class rooms and auditorium. Interior finish pine. Maple floors in class rooms. Steam heat, oil burning plant and vacuum cleaning. Exterior faced with pressed brick. Plans being prepared.

WASCO, ORE.—School, 2 story and base, brick, $25,000. Architects, Tourtellotte & Hummel, Rothchild Bldg., Portland. Owners, City of Wasco. Will contain eight class rooms and an assembly hall. Interior finish pine with maple floors. Steam heat and modern school plumbing. Exterior faced with pressed brick. Plans being prepared.

SEWERS, STREET WORK & WATER SYSTEMS

ONTARIO, SAN BERNARDINO CO., CAL.—Street paving, etc. Cost not stated. Engineer, City Engineer B. B. Mann, Ontario. Owners, City of Ontario. Bids will be received by the City Clerk up to 7:30 p. m. of June 5, 1916, for improving a portion of Campus avenue, involving approximately 23,500 linear feet of concrete curb and gutter, and 400,000 square feet of grading, oiling and graveling, in accordance with plans and specifications neer. Certified check for 10 per cent is required.

LOS ANGELES, CAL.—Highway improvements. Cost as follows. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors of Los Angeles County up to 2 p. m. of Monday, June 5th, 1916, for constructing macadam pavement and cement curbs on Craig avenue and concrete pavement with cement curbs on Bay avenue and Texas street, La Canada, in Road Improvement District No. 78. The length of the improvement cost is $11,844.55. The work will require 16,847 yards of excavation, 6,550 linear feet of shaping, placing 382 tons of macadam, placing 12,959 linear feet of concrete curb, placing 14,939 square yards of concrete paving, 177 yards of concrete for culverts, 9,610 pounds of reinforcing steel, 52 linear feet of pipe railing, 5,300 linear feet of expansion joints four manholes, etc. The county will furnish the cement, gravel, rock, sand and oil.

BURBANK, LOS ANGELES CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Burbank. Owners, City of Burbank. The Board of Trustees rejected all bids received for repairing and widening the macadamized portion of San Fernando Boulevard between the south city limits and Cypress avenue. The material will be purchased in the open market and the work done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Highway improvement. Cost not stated. Engineer, County Surveyor F. E. Quail, Stockton. Owners, San Joaquin County. Bids will be received on June 6th at 10 a. m. for improvement work on the New Hope Landing road from the New Hope Landing bridge in an easterly direction a distance of approximately 2½ miles.

CRESCENT CITY, DEL NORTE CO., CAL.—Highway improvements. Cost not stated. Engineer, County Surveyor, Crescent City. Owners, Del Norte County. Bids will be received on June 12th at 10 a. m. to clear, grade and gravel a 20-foot right-of-way for a distance of 1,290 feet, commencing at the west end of Pacific avenue, running thence to county road on the coast at Pebble Beach. Gravel to be placed on road bed two wagon loads wide, of one cubic yard each. Bidders to bid separately on clearing, grading and graveling.

STOCKTON, SAN JOAQUIN CO., CAL. Street and sewer improvements. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications for the improvement of Miner avenue were approved and adopted. Sealed bids were called for which provide for progressive payments. The bids will be opened on June 2nd. At the same meeting resolutions were adopted calling for bids for the installation of 12-inch sanitary sewers on North El Dorado street, from the center line of Sonoma avenue to the center line of Wyandotte avenue. Progressive payments are provided for and bids will be opened June 2nd. Plans for both improvement may be had from the City Clerk at Stockton.

SAUSALITO, MARIN CO., CAL. — Street improvement. Cost not stated. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Trustees have ordered bids received for the improvement of West street, Central avenue and North street. Bids will consist of macadamizing, sewers, concrete curbs and gutters, etc. Plans may be had from the Town Clerk at Sausalito.

VALLEJO, SOLANO CO., CAL.—Sewer laterals. Cost not stated. Engineer, City Engineer, Vallejo. Owners, City of Vellejo. The plans and specifications for the house lateral sewers in Alabama street, from the waterfront to the Napa road, and for the 6-inch main sewer in Santa Clara street, from Packard alley to Alabama street, together with the diagram of the district to be benefited and assessed for the assessed for the work, as submitted by City Engineer T. D. Kilkenny to the City Council, have been adopted and bids for the work will be called within the next few days.

MARTINEZ, CONTRA COSTA CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Martinez. Owners, Town of Martinez. At the last meeting of the City Trustees a resolution of intention for the improvement of Talbot and High streets was passed and bids asked for for the grading of the thoroughfares. Plans may be had from the Town Clerk.

HILLSBOROUGH, SAN MATEO CO., CAL.—Road improvement. Cost as follows. Engineer, City Engineer, Hillsborough. Owners, City of Hillsborough. The Raisch Improvement Co., 1108 Crocker Bldg., S. F., was the only bidder for the improvement of Pump House road at the meeting of the Hillsborough Trustees. After the engineer had figured out the items he stated that everything was about 50 per cent higher than the estimated cost, which was $900 for the job, while the bid would amount to $1,340. The item for paving was 17 4-10 cents per square foot. The Board was disposed to reject the bid and readvertise, but decided to refer it to the roads committee.

HILLSBOROUGH, SAN MATEO CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, 202 Hearst Bldg., S. F. Owners, City of Hillsborough. Bids will be received up to June 6th at 5 p. m. for grading, paving and otherwise improving El portal from the present limit of paving at its intersection with Santa Ynez avenue to its intersection with the common boundary of the cities of Hillsborough and San Mateo.

RIVERSIDE, RIVERSIDE CO., CAL. —Highway improvement. Cost not stated. Engineer, County Surveyor, Riverside. Owners, Riverside County. Bids will be received up to June 7th at 10 a. m. for the improvement of 2.86 miles of roadway from the east end of present pavement to foot of Beaumont-Morena grade. Said improvement consisting in part of paving will concrete 16 feet wide and 4 inches thick of 2.86 miles of roadway.

Contracts Awarded.

SAN FRANCISCO — Street improvements. Cost as follows. Engineer, City Engineer, City Hall. Owners, City and County of San Francisco. The following contracts have been awarded for street improvements. The improvement of Miramar avenue, between Grafton and Lake avenues, by construction of concrete curbs, artificial stone sidewalks, 3 brick catchbasins with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts, a 14-foot central strip of vitrified brick pavement, and by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $6,708.

The improvement of Miramar avenue, between the north line of Grafton avenue and the south line of Ocean avenue, by grading, construction of concrete curbs, artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps, and 10-inch vitrified, salt-glazed, ironstone pipe culverts; also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Ransome-Crummey Co., First National Bank Bldg., Oakland, for $11,736.

The improvement of Paris street, from Excelsior avenue to its northerly termination by grading, constructing concrete curbs, also asphalt pavement, consisting of a 6-inch concrete foundation and 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $3,705.

The improvement of Capitol avenue, between Broad street and Lobos street, by the construction of concrete curbs, artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; also an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $4,232.

The improvement of Hale street, between Merrill and Boylston streets and the improvement of Merrill street between Hale street and Sweeney street, including the crossing of Hale street and Merrill street, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: An 8-inch with 35 Y branches, 13 side sewers and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps, and a 12-inch with 4 Y branches, awarded to Thomas A. Walsh for $1,028.95.

The improvement of 25th avenue, between Cabrillo and Fulton streets, by the construction of concrete curbs and an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Blanchard-Brown Co., 660 Market St. for $175.

The improvement of the southwest side of Columbus avenue, between Houston and Francisco streets, including the southwest anglar corner of the crossing of Columbus avenue and Francisco street and the northwest angular corner of termination of Houston street at Columbus avenue by the construction of artificial stone sidewalks of the full official width, awarded to Thomas G. Walsh for $455.12.

For the improvement of the crossing of Church and Liberty streets by resetting to official line and grade existing curbs, by the construction of artificial stone sidewalks and an asphalt pavement, consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface, awarded to D. L. Bienfield, Phelan Bldg., for $1,071.60.

The improvement of Price Row from Union street to its southerly termination by the construction of granite curbs, an asphalt pavement, consisting of a 6-inch concrete foundation with a 1½-inch asphaltic binder course and a 2-inch asphaltic wearing surface, awarded to Thomas A. Clark, 68 Post street, S. F., for $591.88.

The improvement of Bosworth street near Rotteck, etc., by the construction of granite curbs; artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances; 8 and 12-inch with 12 Y branches and 4 side sewers and 2 brick manholes with cast iron frames and covers and galvanized wrought iron steps; and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to J. F. Dowling, Russ Bldg., S. F., for $2,812.21.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has awarded contracts as follows: To Frank S. Ostrander, S. F., for the extension of the Yerba Buena avenue sewer, from the Southern Pacific Railroad right-of-way westerly; To Hutchinson Co., 13th and Franklin streets, Oakland, for the improvement of 36th avenue, between East 14th streets and Post street. To Hutchinson Co. for the improvement of Laurel avenue between School street and Hopkins street.

RICHMOND, CONTRA COSTA CO., CAL.—Street paving and sewers. Cost as follows. Engineer, City Engineer, Richmond. Owners, City of Richmond. The following contracts have been awarded by the City Council: Paving of San Pablo avenue, awarded to Municipal Improvement Co., 303 Macdonald avenue, Richmond, for $31,054.57. Coleman Pullman sewer, awarded to the Raven Co., 909 Macdonald avenue, Richmond, for $11,007.66. Wall's Addition sewer, awarded to Raven Co., 909 Macdonald avenue, Richmond, for $10,239.72. Pullman Townsite sewer, awarded to Chambers & Heafey, Bacon Bldg., Oakland, for $2,271.97. A complete list of the figures received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

RICHMOND, CONTRA COSTA CO., AL—Street improvements. Cost not ated. Engineer, City Engineer, Richond. Owners, City of Richmond. ds will be opened on June 5th at 8 m. for street improvements ordered der the following resolutions: That rd street, between the south line of acdonald avenue and the projection st of the north line of Esmond avee, be improved as follows: Graded, ttered and sidewalked with cement ncrete; curbed with cement concrete, ith galvanized steel curb bars, and ved with a bitulithic pavement consting of a 5-inch concrete base and 2-inch bitulithic wearing surface ith a bitulithic flush coat. That corgated iron and cement concrete culrts with cement concrete portals and ing walls, a 24-inch corrugated iron pe culvert with concrete catchbasins ith cast iron grates, lateral sewers d side sewer conections of standard, lt-glazed, vitrified sewer pipe, manles of brick and concrete with cast on rims and covers; lampholes of andard, salt-glazed vitrified sewer pe and cast iron rims and covers d Y branches of standard, saltazed, vitrified sewer pipe, be conructed. Excluding from the above scribed paving a strip 9 feet in idth, lying along the center of 23rd reet, between Macdonald avenue and mond avenue.

Contracts Awarded.

RIVERSIDE, RIVERSIDE CO., CAL. Highway grading, etc., $11,016.25. ngineer, County Surveyor, Riverside. vners, Riverside County. Contracrs, C. L. Hyde Co., 954 3rd street, San ego. Contract price, $11,016.25.

DALY CITY, SAN MATEO CO., CAL. Street improvements. Cost not stat-. Engineer, City Engineer, Daly ty. Owners, Daly City. Contractors, anchard-Brown Co., 660 Market St. F. Contract price not stated.

MODESTO, STANISLAUS CO., CAL.—reet paving and curbs. Cost as folws. Engineer, City Engineer, Mosto. Owners, City of Modesto. Conactors, Central California Paving .. 12 Schafer Bldg., Modesto. Conct price, paving, 12½c per square ot; curbs abd gutters, 65c per lineal ot.

OAKLAND, CAL. — Underpass, reinrced concrete. $1,500. Engineer, ounty Surveyor, Oakland. Owners, ameda County. Contractors, Southn Pacific Co. Contract price, $1,500.

FAIRFIELD SOLANO CO., CAL.—reet paving, $46,671. Engineer, Town ngineer, Fairfield. Owners, Town of airfield. Contractor, W. A. Dontanlle, Salinas. Contract price $46,671.

STORES AND OFFICES

SAN FRANCISCO—Stores and offices, story and base. Class A construc on. Cost not stated. Architects, ood & Simpson, 110 Sutter street, S. Owner, John Drum. Location, uthwest Second and Market streets. e selection of the architects to prere these plans has just been made. construction details have been anounced. Further mention will be ade of the work.

SAN FRANCISCO—Store and offices, ass A construction. Cost not stated. rchitect's name not given. Owner, orge U. Hind. The property of the efunct California Safe Deposit Co., located at the northeast corner of California and Montgomery streets, has been sold in the court of Judge Sewell to George U. Hind, of the firm of Hind, Rolph & Co., and will be improved at once. It is reported that a Class A monumental bank building will be erected by the American National Bank. Architect Charles Peter Weeks, Mutual Bank Bldg., has also prepared preliminary sketches for the same owner for a twelve-story office building with banking rooms on the first floor.

SAN FRANCISCO—Offices, 2 story and base. Class C construction. Cost not stated. Architect, Frederick Whitton, 251 Kearny street, S. F. Owner, Remedial Loan Association. Location, northwest Mission and Mint avenue, covering an area of 85 by 25 feet. Will contain offices, public room and safe deposit vaults. Interior finish pine and hardwood with some ornamental plaster. Steam heat. Exterior faced with terra cotta. Plans complete and ready for figures.

VALLEJO, SOLANO CO., CAL. — Stores and apartments, 4 story and base. Class C construction, $60,000. Architect, Bernard J. Joseph, Call Bldg., S. F. Owners, Levy Bros. Will contain stores on the first floor and a number of two, three and four room apartments on the upper floors. Interior finish pine and elm panels. Steam heat and hot water supply. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Revised plans being prepared.

THEATRES.

ANTIOCH, CONTRA COSTA CO., CAL.—Library, 1 story, frame. Cost not stated. Architect, Francis W. Reid, Antioch. Owners, Antioch. Will contain main reading room, office and stack room. Interior finish pine and redwood. Maple floor. Stove for heating. Exterior covered with cement plaster. Plans complete and figures being taken. Bids close on June 5th at 11 a. m.

NEWMAN, STANISLAUS CO., CAL.—Library, 1 story and base, brick. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Town of Newman. Will contain reading rooms, stack room and office. Interior finish pine and redwood. Hardwood floors. Central heating system. Metal book stacks. Exterior faced with cement plaster or brick. Plans complete and figures being taken. Bids close on June 3rd. Plans can be secured from the architect.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1042 — Proposals for Pig Iron, Babbitt Metal, Pig Tin, Antimony, Sheet Zinc, Sheet Lead, Lead Pipe, Solder, Bronze Bars, Copper Bars, Sheet Copper, Copper Tubing, Brass Tubing, Copper Wire, Manganese Steel Bushings, Journal Bearings, Malleable Iron Castings, Steel Castings, Coupler Pins, Spring Plates, Horse Shoes, Toe Caulks, Steel Cable, Cable Thimbles, Cable Clips, Turnbuckles, Joining Shackles, Missing Links, Rivets, Bolts, Track Spikes, Nails, Tacks, Nuts, Dies, Twist Drills, Bits, Shovels, Mattocks, Ratchet Jacks, Chain Blocks, Wheelbarrows, Cocks, Throttle Valves, Steam Gauges, Automobile Bells, Hinges, Hooks and Eyes, Shelf Brackets, Wagon Chains, Wagon Felloes, Putty Knives, Carriage Lamps, Lamp Chimneys, Window Glass and Brushes. —Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 5, 1916,** at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1042) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1043 — Proposals for Hose, Packing, Asbestos, Gaskets, Rubber Valves, Manila Rope, Marline, Oakum, Belt Lacing, Belting, Leather, Linoleum, Oilcloth, Canvas, Cheesecloth, Bunting, Burlap, Table Cloths, Towels, Ticking, Mattress Tufts, Twine, Yarns, Magnesia Boiler Lagging, Magnesia Pipe Covering, Sandpaper, Emery Cloth, Tarboard Boxes, Crayons, Rubber Bands, Cardboard, Toilet Paper, Fire Brick, Fire Clay, Silica Wash, Silica, Sand, Rock Salt, Beeswax, Candles, Soap, Metal Polish, Caustic Soda, Sal Soda, Lye, Chloride of Lime, Potassium Chlorate, Calcium Carbide, Graphite, Coal Tar, Gold Leaf, Muriatic Acid, Nitric Acid, Ammonia, Benzene, Neat's-foot Oil, Lard Oil, Linseed Oil, Varnish, Shellac, Lacquer, White Zinc, Paints, and Cedar Lumber.—Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 6, 1916,** at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1043) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1044 — Proposals for Cargo Winches, Motor Generator Set, Oxy-Hydrogen Generating Outfit, Panel Boards, Switches, Fuses, Electrical Attachments, Conduit and Fittings, Moulding and Capping, Asbestos Paper, Friction Tape, Electrolyte, Cable Compound, Copper Connectors, Electric Cable, Magnet Wire, Brass Nuts, Brass Washers, Taps and Dies, Thermometers, Wire, Fencing, Bolts, Hinges, Manila Rope, Pencils, Glue, Mucilage, Copying Books, Index Cards, Manila Tags, Gummed Labels, Carbon Paper and Crash Toweling.—Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 9, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1044) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR PUMPING EQUIPMENT.

POWER AND PUMPING EQUIPMENT—Beartment of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. reclamation service Denver, Colo., until **2 p. m. June 5, 1916,** for furnishing and erecting power and pumping equipment for the Grandview Irrigation District, Yakima project, Washington, involving a generator, transformers, switchboard equipment, hydraulic turbine, pumps, steel pipes, head gates, etc. The work is located near Grandview Wash. For particulars address the U. S. reclamation service, Washington D. C.; Denver, Colo., or North Yakima, Wash. A. P. DAVIS, Chief Engineer.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Provo, Utah, until **2 o'clock p. m. June 15, 1916**, for construction involving about 70,000 cubic yards of canal excavation, 11,000 cubic yards of rolled embankment, 3,500 cubic yards of excavation for structures, 1,500 cubic yards of reinforced concrete, and 700,000 square feet of canal lining. The work is located near Payson, Utah, on the Tintic Branch of the Denver and Rio Grande Railroad. For particulars address the U. S. Reclamation Service, Washington, D. C.; Denver, Colo., or Provo, Utah. A. P DAVIS, Chief Engineer.

PROPOSALS FOR ALASKA RAILROAD WORK.

ALASKA CIRCULAR 185—Alaskan Engineering Commission, Office of the Purchasing Agent, Seattle, Wash.—Sealed proposals will be received here until **June 5, 1916**, under circular 185 for furnishing 2 caboose cars and repair parts for 1908 model, 12 yard Oliver dump cars. Copies of the circular may be had at the U. S. engineer office, Couch Building, Portland, Ore.; Bureau of Mines, Custom House, San Francisco, Cal.; U. S. Reclamation Service, Cramway Building, Denver, Colo.; U. S Reclamation Service, Federal Building, Chicago, Ill.; Bureau of Mines, Pittsburgh, Pa., and Alaskan Engineering Commission, Washington, D. C. C. E. DOLE, Purchasing Agent.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Hermiston, Ore., until **2 o'clock p. m. June 15, 1916**, for canal enlargement, Umatilla project. The work consists of widening about 20 miles of canal and involves the excavation of about 168,000 cubic yards of material and the placing of about 370 cubic yards of concrete. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Hermiston, Ore. A P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Malta, Mont., until **2 o'clock p. m. June 22, 1916**, for earthwork and structures, Bowdoin Canal, Milk River project, involving about 134,000 cubic yards of excavation, 220 cubic yards of reinforced concrete, 450 square yards of paving, the placing of 14,000 pounds of reinforcement steel and the placing in wooden structures of about 50,000 feet, b. m. of lumber. The work is located about 15 miles east of Malta, Mont., near Bowdoin Station on the Great Northern Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR ALASKA RAILROAD SUPPLIES.

ALASKA CIRCULAR 179—Office of the Purchasing Agent, Alaskan Engineering Commission, Seattle, Wash.—Sealed proposals will be received here until **11 a. m. May 22, 1916** ....

NOTICE TO CONTRACTORS.

INVITING SEALED PROPOSALS for the erection of a school building in the San Bruno Park School District, County of San Mateo, State of California.

Notice is hereby given that the undersigned trustees of the San Bruno Park School District, County of San Mateo, State of California, will receive sealed bids at the San Bruno School House, San Bruno, County of San Mateo, California, for the erection, completion and plumbing (separate contract) of a school building in said district up to the hour of **eight (8) o'clock p. m. on Wednesday, the thirty-first day of May, 1916**, at which said time and place said bids will be publicly opened.

All bids must be addressed to Mr. H. Spalding, Clerk of the San Bruno Park School District, San Mateo County, California, and must be accompanied by a certified check on some reliable bank in the State of California, made payable to the order of aforesaid Clerk of said Board of School Trustees, in amount equal to at least ten (10) per cent of the bid so submitted, and no proposal will be considered by said Board unless accompanied by such check.

The said check to be forfeited to said San Bruno Park School District, as ascertained and liquidated damages in case the successful bidder fails or refuses to enter into a contract to perform the work, and give the bonds hereinafter required, within ten days after the date of the award.

Said building is to be erected in the City of San Bruno, County of San Mateo, State of California, and is to be a one (1) story, four (4) class room school building.

The plans and specifications for said building may be obtained from Edwards & Norberg, architects, Bank Building, Burlingame, San Mateo County, California.

Said building must be erected according to said plans and specifications and completed in eighty (80) working days from the date of the execution of the contract.

The bidder to whom the contract is awarded will be required at the time of the execution of the contract, and as a condition of the contract, and as a condition to the acceptance of his bid, to execute and file a good and sufficient bond, executed by a surety company, or by two responsible sureties to be approved by the said Board of Trustees of said district, to secure the faithful performance of the contract, in an amount of not less than twenty-five (25) per cent of the contract price, and an additional bond in amount of not less than fifty (50) per cent of the total amount payable under the terms of the contract, to secure the payment of claims for any material, or supplies of labor, of any kind whatsoever used in the construction of the said building to be constructed under the said contract.

The said Board of Trustees expressly reserves the right to reject any and all bids.

Done by order of the Board of Trustees of the San Bruno Park School District, County of San Mateo, State of California.

PETER BOLLIGER,
JOSEPH A. CUNNINGHAM,
Trustees.

HENRY SPALDING,
Clerk of the Board of Trustees.

PROPOSALS FOR RECLAMATION WORK.

CONSTRUCTION WORK, NO. 2235—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until **June 15, 1916**, for construction involving about 70,000 cubic yards of canal excavation, 11,000 cubic yards of rolled embankment, 3,500 cubic yards of excavation for structures, 1,500 cubic yards of reinforced concrete, and 700,000 square feet of canal lining. Further information may be obtained on application to the United States Reclamation Service, Washington, D. C., Denver, Colo., or Provo, Utah.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 15, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M. June 21, 1916**, for the construction complete of the United States post office and customhouse at Douglas, Ariz. Drawings and specifications may be obtained from the custodian of site at Douglas, Ariz., or at this office, in the discretion of the Acting Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

NOTICE TO BIDDERS.

PURSUANT to an order of the Board of Supervisors of the County of Stanislaus, State of California, made and entered on the 10th day of May, 1916, notice is hereby given that sealed bids will be received by the undersigned Clerk of the said Board up to and not later than the hour of **2 p. m. of the 13th day of June, 1916**, for the construction of a reinforced concrete bridge over the Tuolumne River, near the City of Modesto, Stanislaus County, California, in accordance with the plans and specifications on file in my office, where the same can be inspected by intending bidders during office hours.

All bids must be accompanied by a certified check on some solvent bank of the State of California, in a sum equal to ten per cent of the amount bid, conditioned that the successful bidder will enter into such contract and furnish such bond as may be required within ten days after such award or failing so to do will forfeit the amount of such check as liquidated damages for such failure.

Bids to be submitted on special forms, which can be obtained from the County Clerk.

The Board reserves the right to reject any or all bids.

H. BENSON,
Clerk of the Board of Supervisors of the County of Stanislaus, State of California.

PROPOSALS FOR BOILERS.

TREASURY DEPARTMENT, Office of the Supervising Superintendent of Construction, Room 402, U. S. Post Office Building, San Francisco, Cal.—Sealed proposals will be received at this office until **12 o'clock m., on June 12, 1916**, and then publicly opened, for repairs to heating plant (installation of new boilers) at the U. S. Marine Hospital Station, San Francisco, Cal., in accordance with the drawing and specification, copies of which may be had upon application at this office or the office of the Custodian of the Station. J. W. ROBERTS, Supervising Superintendent.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal.—SEALED PROPOSALS in triplicate; for constructing Concrete Ward, including plumbing, heating, electric wiring, fixtures and fire alarm system at Letterman General Hospital, California, will be received here until **11 A. M., June 8, 1916**, and then opened. Further information on application. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on June 26, 1916**, at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

San Mateo County, from Beresford to Redwood City (IV-S, M-2-B), about 4.2 miles in length, to be paved with Portland cement concrete.

Ventura County, from Springville to Santa Clara River (VII-Ven-2-C), about 5.6 miles in length, to be paved with Portland cement concrete.

Humboldt County, from Loleta to Beatrice (I-Hum-1-G), about 4.3 miles in length, to be paved with Portland cement concrete.

Shasta County, between Baird and Antler (II-Sha-3-C), a reinforced concrete bridge about 120 feet long across Salt Creek, and a reinforced concrete bridge about 541 feet long across the Sacramento River.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said

office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: May 25, 1916.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, June 19th, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two Physicians' Cottages," Stockton State Hospital, Stockton, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two Physicians' Cottages,' Stockton State Hospital, Stockton, California."

[SIGNED] W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the Office of Indian Affairs, Department of the Interior, Washington, D. C., **until June 13, 1916,** marked "Proposals for Hospital Building, Hoopa Valley School, California," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," for furnishing materials and labor for the construction of a frame hospital building, in accordance with the plans, specifications, and instructions to bidders, which may be examined at the United States Indian Warehouse at Chicago, Ill., San Francisco, Cal., St. Louis, Mo., and Builders' Exchange, St Paul, Minn., and at the office of the Superintendent of the Hoopa Valley School, Hoopa, Cal. Further information may be had on application to the superintendent of the above-named school. (*)

NEW AMERICAN HOSPITAL IN PANAMA.

COLON, April 22.—The buildings of the Colon Hospital have been completed and turned over to the United States medical authorities for Colon-Christobal. The patients will be transferred from the old quarters to the new early in May, and when the antiquated wooden structures are removed the new hospital will have an unbroken sea front and the full advantage of the prevailing ocean breezes. The buildings have an attractive setting behind rows of comparatively young coconut trees.

The buildings of the new hospital, which are of reinforced concrete with tile roofs, are four in number, arranged on the pavilion plan, with an administration building in the middle, an east wing for wards, a west wing for a dispensary and private rooms, and in the rear a service building in which are the kitchens, dining rooms, etc. There are also an emergency ward, a laboratory, X-ray room, dark room, and all the other conveniences of a well-equipped modern hospital. The buildings are thoroughly screened, and there are ample protected verandas the length of the buildings and an inclosed sun porch at one end.

CHINA CLAY IN NEW ZEALAND.

AUCKLAND—It is claimed that a fine body of china clay has been discovered at Glen Massey, near the Waipa Collieries, about 70 miles south of Auckland, with good railway facilities. The following is an extract from a local paper:

So far as tests have gone, the deposit has been traced to a depth of 30 feet over an area of about 50 acres. The clay is incased in red soil for a depth varying up to 18 inches. An analysis made by Mr. J. A. Pond, Government analyst, has proved the material to be very similar to the china clay of Cornwall, and experts from English potteries who have seen it have formed a high opinion of its quality. Mr. Pond considers that without undergoing any process it can be used in direct manufacture of several articles. Samples of glazed tiles have been made from the clay, and a southern firm has manufactured from it insulators for telegraph poles.

Increased manufacture of munitions greatly stimulated the graphite industry in the United States in 1915, but in spite of this activity the output of American mines was wholly inadequate to meet domestic demands. Still greater production is expected this year. The increase for 1915 was 1,850,000 pounds, as reported by the United States Geological Survey.

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LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY
Key Route Ferry. Phone Sutter 2339.
Red Line Trans. Co., S. F.; People's Express Co., Oakland.

The Scenic Line
Direct to
Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.
Automatic Block Signals.
Observation Cars.
Rock Ballasted road-bed.
Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.
Write for descriptive folder.
Oakland Antioch & Eastern Railway
San Francisco Depot Key Route Ferry

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 2735.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

STREET IMPROVEMENTS — Cost as follows. Engineer, City Engineer City Hall. Owners, City and County of San Francisco. The following contracts have been awarded for street improvements. The improvement of Miramar avenue, between Grafton and Lake avenues, by construction of concrete curbs, artificial stone sidewalks, 3 brick catchbasins with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; a 14-foot central strip of vitrified brick pavement, and by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $6,708.

The improvement of Miramar avenue, between the north line of Grafton avenue and the south line of Ocean avenue, by grading, construction of concrete curbs, artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps, and 10-inch vitrified, salt-glazed, ironstone pipe culverts; also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Ransome-Crummey Co., First National Bank Bldg., Oakland, for $11,736.

The improvement of Paris street, from Excelsion avenue to its northerly termination, by grading, constructing concrete curbs; also asphalt pavement consisting of a 6-inch concrete foundation and 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $3,705.

The improvement of Capitol avenue, between Broad street and Lobos street, by the construction of concrete curbs, artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; also an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $4,232.

The improvement of Hale street, between Morrill and Boylston streets, and the improvement of Merrill street, between Hale and Sweeney streets, including the crossing of Hale street and Merrill street, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: An 8-inch with 35 Y branches, 13 side sewers and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps; a 12-inch with 4 Y branches, awarded to Thomas A. Walsh for $1,028.95.

The improvement of 35th avenue, between Cabrillo and Fulton streets, by the construction of concrete curbs and an asphaltic pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to Blanchard-Brown Co., 660 Market St., for $175.

The improvement of the southwest side of Columbus avenue, between Houston and Francisco streets, including the southwest angular corner of the crossing of Columbus avenue and Francisco streets and northwest angular corner of termination of Houston street at Columbus avenue, by the construction of artificial stone sidewalks of the full official width, awarded to Thomas G. Walsh for $455.12.

For the improvement of the crossing of Church and Liberty streets by resetting to official line and grade existing curbs, by the construction of artificial stone sidewalks and an asphalt pavement, consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface, awarded to D. L. Bienfield, Phelan Bldg., for $1,071.60.

The improvement of Price Row, from Union street to its southerly termination, by the construction of granite curbs, an asphalt pavement, consisting of a 6-inch concrete foundation with a 1½-inch asphaltic binder course and a 2-inch asphaltic wearing surface, awarded to Thomas A. Clark, 68 Post street, S. F., for $591.88.

The improvement of Bosworth street, near Rotteck, etc., by the construction of granite curbs, artificial stone sidewalks, brick catchbasins with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8 and 12-inch with 12 Y branches and 4 side sewers and 2 brick manholes with cast iron frames and covers and galvanized wrought iron steps, and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and 2-inch asphaltic wearing surface, awarded to J. F. Dowling, Russ Bldg., S. F., for $2,812.21.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, John Bjorkman, 1239 Athens street, S. F. Location, south 20th street east of Sanchez. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $8,500. San Francisco. Architect, Smith & O'Brien, Humboldt Bank Bldg., S. F. Owner, Harry T. Blackwood. Location, north Jackson near Cherry. Will contain nine rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and hot water circulating system. Open fire places and tile or brick mantels. Bath rooms tile. Exterior finished with cement plaster. Plans complete and figures being taken.

RESIDENCES—2, 2 story and base, frame, $2,800 each. San Francisco. Architect, none. Owner, N. J. Nelson, 517 Elizabeth street, S. F. Location, east 2nd avenue south of Clement Each house will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, A. T. Morris, 501 11th avenue, S. F. Location, west 9th avenue north of Cabrillo. Will contain five rooms, bath and basement garage. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owner, Mrs. William Koenig. Location, northwest 12th avenue and Cabrillo. Will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, F. Nelson, 2701 Lincoln Way, S. F. Location, east 28th avenue south of Lincoln Way. Will contain six rooms, bath and basement garage. Interior finish pine and elm panels with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none. Owners, Costello & Ferrick, 204 San Carlos avenue, S. F. Location, east 17th north of Balboa. Will contain six rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, Alpheus Duffee, 685 Dolores street, S. F. Location, west 10th avenue near Kirkham. Will contain six rooms and bath. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels aile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $20,000. San Francisco.

Architect, none. Owner, O. H. Curtaz, 521 Hayes street, S. F. Location, west 7th street north of Natoma, covering an area of 59 by 56 feet. Will contain 17 apartments of two, three and four rooms. Interior finish pine, redwood and elm panels. Some hardwood floors. Steam heat, oil burning furnace and hot water supply. Bath rooms composition floors. Wall beds. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, French-California Wine Co. Location, northeast corner of Powell and Pacific streets. Will contain two stores on the ground floor and thirteen apartments of two, three and four rooms on the upper two floors. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water circulating system. Bath rooms composition floors. Wall beds. Patent store fronts and marble bases. Exterior faced with brick veneer and shiplap. Plans nearly complete and figures to be taken shortly.

RESIDENCES—2, 2 story and base, frame, $15,000 each. San Francisco. Architect, G. A. Applegarth, Call Bldg., S. F. Owners, G. A. Applegarth and Charles Lawrence. Location, Vallejo between Devisadero and Broderick. Each house will contain twelve rooms, three baths and sleeping porches. Separate garages will be erected. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Central heating systems, probably hot water, hot water circulating systems and vacuum cleaning. Bath rooms finished in tile and equipped with showers. Exterior faced with cement plaster. Plans complete and contracts for grading and excavation awarded. Segregated figures on other parts of the work being taken.

FLATS—3 story and base, frame, $8,500. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner's name withheld. Location, south Vallejo east of Leavenworth. Will contain three flats of four and five rooms. Basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $3,500. San Francisco. Architect, F. Munk, 58 Francis street, S. F. Owner, George F. Munk and wife. Location, north Francis west of Mission. Will contain two flats of five rooms each. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms composition floors. Automatic water heaters. Exterior covered with rustic and shiplap. Plans complete and work to be done by Day Labor.

FLATS—3 story and base, frame, $5,000. San Francisco. Architect, Paul F. De Martini, 2123 Powell street, S. F. Owner, H. De Martini. Location, southeast Auburn and Pacific streets. Will contain three flats of five rooms and bath. Interior finish pine, redwood and white enamel. Some hardwood floors. Open fire places and tile mantels. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

FLATS—2 story and base, frame, $4,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owners, Deitemeier Piano Co., 853 Valencia street, S. F. Location, Valencia between 19th and 20th streets. Will contain a store in the first floor and a modern flat of five rooms above. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire place and tile mantel. Marble bases. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame $5,350. San Francisco. Architect, none. Owner, A. Melander, 1621 Lake street, S. F. Location, north Clement west of 15th avenue, covering an area of 25 by 72 feet. Will contain two flats of five rooms and bath. Basement garage. Interior finish pine and white enamel with some elm panels. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with shiplap and rustic. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $4,500. San Francisco. Architect, none. Owner, Charles Mitchell, 324 24th avenue, S. F. Location, east 24th avenue south of California. Will contain two five-room flats with bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor under the direction of J. W. Mullen, 2018 Parker street, Berkeley.

FLATS ALTERATION AND ADDITION—2 story, frame, $6,000 to $7,000. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owners, Deitemeier Piano Co., 853 Valencia street. Location, Valencia between 19th and 20th streets. Work will consist of raising the present building, adding a story and complete rearrangement of interior partitions. New interior trim, hardwood floors, electric work, painting and plastering will be required. Exterior will be covered with cement plaster. Plans complete and work to be done by Day Labor.

BARRACKS BUILDINGS — 9, brick, concrete and frame, $91,000. Fort Huachuca, Ariz. Engineer, Constructing Quartermaster, Fort Huachuca. Owners, United States Government. Kelly & Beahls, Leavenworth, Kans., have been awarded the contract at $91,000 for the erection of nine new buildings at Fort Huachuca. The electric wiring was awarded to the Lawrence Electric Co. of El Paso, Texas, and laundry machinery to Troy Laundry Co. The administration building will be two stories and basement, 32 by 54 feet, concrete foundation, brick walls and common brick facing or hollow tile walls with plastered exterior, asbestos shingle or slate roof; interior plaster on metal lath, pine trim and floors, hot water heating system, etc. The laundry building will be two stories, 40 by 92 feet, of reinforced concrete construction. The barracks will be two stories, 29 by 120 feet, exterior and interior plastered on metal, shingle roof. The captains' quarters will be two stories, 42 by 32 feet, exterior and interior plastered on metal lath. The stable, guard and shop buildings will be one story, 32 by 52 feet, of frame construction.

COAL YARD—1 story, frame, $3,800. San Francisco. Architect, W. S. Rhodes, 3372 16th street, S. F. Owners, W. G. Stafford Coal Co., 234 Stuart street, S. F. Location, south Geary east 10th avenue, covering an area of 100 by 100 feet. Pine interior trim in office portion. Exterior covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

STORES AND OFFICES—12 story and base. Class A construction. Cost not stated. San Francisco. Architects, Wood & Simpson, 110 Sutter street, S. F. Owner, John Drum. Location, southwest Second and Market streets. The selection of the architects to prepare these plans has just been made. No construction details have been announced. Further mention will be made of the work.

STORE AND OFFICE—2 or 12 story. Class A corstruction. Cost not stated. San Francisco. Architects name not given. Owner, George U. Hind. The property of the defunct California Safe Deposit Co., located at the northeast corner of California and Montgomery streets, has been sold in the court of Judge Sewell to George U. Hind, of the firm of Hind, Rolph & Co., and will be improved at once. It is reported that a Class A monumental bank building will be erected by the American National Bank. Architect Charles Peter Weeks, Mutual Bank Bldg., has also prepared preliminary sketches for the same owner for a twelve story office building with banking rooms on the first floor.

OFFICES—2 story and base. Class C construction. Cost not stated. San Francisco. Architect, Frederick Whitton, 251 Kearny street, S. F. Owner, Remedial Loan Association. Location, northwest Mission and Mint avenue, covering an area of 85 by 25 feet. Will contain offices, public room and safe deposit vaults. Interior finish pine and hardwood with some ornamental plaster. Steam heat. Exterior faced with terra cotta. Plans complete and ready for figures.

HOSPITAL WARD—2 story and base, reinforced concrete, $45,000. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Location, replacing Ward J at the Letterman General Hospital, Presidio of San Francisco. Will cover an area of 30 by 108 feet. Fireproof construction. Metal window sash and frames and hollow tile interior partitions. Hardwood floors. Tile and white enamel trim. Clay tile roof. Steam heat from central system. Hot water supply. Exterior faced with cement plaster. Plans complete and figures being taken. Bids open June 8th.

HOSPITAL HEATING SYSTEM — Cost not stated. San Francisco. Engineer, U. S. Building Superintendent Roberts, 402 Post Office Bldg., S. F. Owners, United States Government. Bids will be received on June 12th for repairs to the present heating system in the U. S. Marine Hospital and also for the installation of new boilers. An official proposal appears in another column of this issue.

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The City Council has awarded contracts as follows: Awarded contract to Frank S. Ostrander, San Francisco, for the extension of the Yerba Buena avenue sewer, from the Southern Pacific Railroad right-of-way westerly. Awarded contract to Hutchinson Co., 17th and Franklin streets, Oakland, for the improvement of 36th avenue, between East 14th street and Post street. Awarded contract to Hutchinson Co. for the improvement of Laurel avenue, between School street and Hopkins street.

RESIDENCE ALTERATIONS—$2,000. Oakland, Cal. Architect, none. Owner, Charles A. Kierulff, 2605 Fulton street, Berkeley. Location, 237 Moss street. Work will consist of interior and exterior alterations, mill work, hardwood floors, painting, plastering, plumbing and electric work. Plans are complete and work will be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,800. Oakland, Cal. Architect, none. Owner, E. H. Morison, 5423 Grove street, Oakland. Location, south Laverne west of 55th avenue. Will contain five rooms and bath. Interior finish pine and redwood with some hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Piedmont, Alameda Co., Cal. Architect, none. Owner, A. R. Dexter, 2212 Grove street, Oakland. Location, Fairview near Jerome. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Piedmont, Alameda Co., Cal. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owner, Mr. Adams. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Separate garage. Exterior faced with cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame, $3,500. Oakland, Cal. Architect, none. Owner, G. Armstrong, 1639 Alcatraz avenue, Berkeley. Location, north Mandana Boulevard east of Paloma. Will contain seven rooms, bath and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, J. C. Pfrang, 5168 Claremont avenue, Oakland. Location, east Ellsworth south of Ward. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Bldg., Berkeley. Owner, Mrs. Alpha Hollis. Location, Northbrae. Will contain eight rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, Joe St. Mary, 9257 East 14th street, Oakland. Location, east Auseon north of Blanch. Will contain six rooms and bath. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Bath room tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Oakland, Cal. Architect, none. Owner, Edward Grandin, 1533 Prince street, Berkeley. Location, south Aileen west of Adeline. Will contain four rooms and bath. Interior finish pine and redwood with some white enamel and hardwood floors. Open fire place and tile or brick mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,000. Oakland, Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, Jennie C. Wintermute. Location, Shafter and Pryal. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, John Lindquist, 1709 Channing Way, Berkeley. Location, north Channing Way west of Roosevelt. Will contain six rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

MUNICIPAL SHOP AND BARN—1 story, brick and steel, $10,000. Berkeley, Alameda Co., Cal. Architect W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Plans are complete and now out for figures for the new Municipal shop and barns to be erected in West Berkeley. Cement floor. Exterior faced with stock brick. Plans can be secured from the architect

INDUSTRIAL PLANT—3, 1 story and base steel and concrete, $300,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, Oakland Textile Mfg. Co. Location Seminary avenue. The plant will consist of a group of one-story steel frame buildings with the exterior walls of brick and concrete. The machinery building will be 224 by 80 feet, the weavers' department, 212 by 80 feet and the finishing and dyeing department, 150 by 50 feet. Large areas in both walls and roofs will be covered with glass. Construction will be in charge of Edward Sommarstrom, 202 East 12th street, Oakland, and will start about June 15th.

SCHOOL PAINTING—Cost as follows. Alameda, Alameda Co., Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, City of Alameda. Three bids for painting in the Washington School, Alameda, were received by the Board of Education. All figures were taken under advisement: W. P. Baker Co., $2,200; D. Zelinsky & Son, $1,700; Tozer Bros., $1,300.

MECHANICAL EQUIPMENT — Cost not stated Berkeley, Alameda Co., Cal.- Engineer's name not given. Owners, Regents of the University of California. Bids will be opened on June 9th at 9 a. m. for furnishing mechanical equipment for the University power plant. An official proposal appears in another column of this issue.

GARAGE—1 story and base, brick, $5,000. Oakland, Cal. Architects, Oliver & Thomas, Pantages Bldg., Oakland. Owner, S. C. Booth. Location, 38th and Telegraph avenue, covering an area of 55 by 110 feet. Designed for a commercial garage and will contain the usual storage space, office and wash rooms. Interior trim pine. Metal window sash and frames. Special gasoline storage tanks. Exterior faced with stock brick. Plans being prepared.

Contracts Awarded.

UNDERPASS—Reinforced concrete, $1,500. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Contractors, Southern Pacific Co. Contract price, $1,500.

GARAGE—1 story and base, brick and steel, $20,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner, Mr. Stark. Contractor, Edward Sommarstrom, 202 East 12th street, Oakland. Contract price, $20,000.

SAN JOSE AND THE SANTA CLARA VALLEY

ROAD IMPROVEMENT—Cost as follows. Hillsborough, San Mateo Co., Cal. Engineer, City Engineer, Hillsborough. Owners, City of Hillsborough. The Raisch Improvement Co., 1108 Crocker Bldg., S. F., was the only bidder for the improvement of Pump House road at the meeting of Hillsborough Trustees. After the engineer had figured out the items he stated that everything was about 50 per cent higher than the estimated cost, which was $9[illegible]0 for the job, while the bid would amount to $1,340. The item for paving was 17 4-10 cents per square foot. The Board was disposed to reject the bid and readvertise, but decided to refer it to the roads committee.

STREET IMPROVEMENT—Cost not stated. Hillsborough, San Mateo Co., Cal. Engineer, City Engineer, 202 Hearst Bldg., S. F. Owners, City of Hillsborough. Bids will be received up to June 6th at 5 p. m. for grading, paving and otherwise improving El Portal, from the present limit of pav-

ing at its intersection with Santa Ynez avenue, to its intersection with the common boundary of the cities of Hillsborough and San Mateo.

BRIDGE—Reinforced concrete, $15,100. Santa Cruz, Santa Cruz Co., Cal. Engineer, County Surveyor, Santa Cruz. Owners, Santa Cruz ounty. The County Supervisors have awarded the contract to Tieslau Bros., 110 Jessie St., S. F., for the construction of a steel bridge over Rodeo Gulch on the Soquel and Watsonville road. Their bid was $15,400. Other bids were as follows: C. E. Cotton, Oakland, $15,841; A. Mattson Co., S. F., $16,227; McCrae & Layez, S. F., $15,943; Mesmer & Rice, L. A., $16,600; F. F. Moore, Monterey, $16,795; W. L. Gilham & Son, San Jose, $18,730; Midland Bridge Co., Kansas City, Mo., $17,400; Nelson Mosher, $16,198.25; Golden Gate Iron Co., S. F., $19,371.

BRIDGE—Reinforced concrete. Cost not stated. Santa Rosa, Sonoma Co., Cal. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma and Marin Counties. At the last meeting of the County Supervisors the County Clerk was instructed to advertise for bids for the 150-foot bridge and the two 20-foot culverts to be built near Valley Ford. This bridge is to be erected and paid for jointly by Sonoma and Marin Counties. Plans may be had from the County Clerk at Santa Rosa.

Contracts Awarded

STREET IMPROVEMENTS—Cost not stated. Daly City, San Mateo Co., Cal. Engineer, City Engineer, Daly City. Owners, Daly City. Contractors, Blanchard-Brown Co., 660 Market street, S. F. Contract price not stated.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENT—Cost not stated. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The Town Trustees have ordered bids received for the improvement of West street, Central avenue and North street. Bids close June 5th at 8 p. m. The work will consist of macadamizing, sewers, concrete curbs and gutters, etc. Plans may be had from the Town Clerk at Sausalito.

SEWER LATERALS—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The plans and specifications for the house lateral sewers in Alabama street, from the waterfront to the Napa road, and for the 6-inch main sewer in Santa Clara street, from Packard alley to Alabama street, together with the diagram of the district to be benefited and assessed for the work, as submitted by City Engineer T. D. Kilkenny to the City Council have been adopted and bids for the work will be called within the next few days.

STREET IMPROVEMENT—Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, Town Engineer, Martinez. Owners, Town of Martinez. At the last meeting of the City Trustees a resolution of intention for the improvement of Talbot and High streets was passed and bids asked for for the grading of the thoroughfares. Plans may be had from the Town Clerk.

STREET PAVING AND SEWERS—Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. The following contracts have been awarded by the City Council: Paving of San Pablo avenue, awarded to Municipal Improvement Co., 303 Macdonald avenue, Richmond, for $31,054.57. Coleman Pullman sewer, awarded to The Raven Co., 909 Macdonald avenue, Richmond, for $11,007.66. Wall Addition sewer, awarded to Raven Co., 909 Macdonald avenue, Richmond, for $10,239.72. Pullman Townsite sewer, awarded to Chambers & Heafey, Bacon Bldg., Oakland, for $2,271.97. A complete list of the figures received will be found under the heading of Marin, Contra Costa and Sonoma Counties in this issue.

STREET IMPROVEMENTS—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids for street improvements ordered under the following resolutions: That 23rd street, between the south line of Macdonald avenue and the projection east of the north line of Esmond avenue, be improved as follows: Graded, guttered and sidewalked with cement concrete, curbed with cement concrete, with galvanized steel curb bars, and paved with a bitulithic pavement consisting of a 5-inch concrete base and a 2-inch bitulithic wearing surface with a bitulithic flush coat. That corrugated iron and cement concrete culverts with cement concrete portals and wing walls, a 24-inch corrugated iron pipe culvert with concrete catchbasins with cast iron grates, lateral sewers and side sewer connections of standard, salt-glazed, vitrified sewer pipe, manholes of brick and concrete with cast iron rims and covers; lampholes of standard, salt-glazed, vitrified sewer pipe and cast iron rims and covers and Y branches of standard, salt-glazed, vitrified sewer pipe be constructed. Excluding from the above described paving a strip 9 feet in width, lying along the center of 23rd stree, between Macdonald avenue and Second avenue.

SCHOOL—1 and 2 story, reinforced concrete or hollow tile, $50,000. Martinez, Contra Costa Co., Cal. Architects, Stone & Wright, San Joaquin Valley Bank Bldg., Stockton. Owners, City of Martinez. Will contain ten class rooms and auditorium. Interior finish pine. Maple floors in class rooms. Steam heat, oil burning plant and vacuum cleaning. Exterior faced with pressed brick. Plans blans being prepared.

STORES AND APARTMENTS — 4 story and base. Class C construction, $60,000. Vallejo, Solano Co., Cal. Architect, Bernard J. Joseph, Call Bldg., S. F. Owners, Levy Bros. Will contain stores on the first floor and a number of two, three and four room apartments on the upper floors. Interior finish pine and elm panels. Steam heat and hot water supply. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Revised plans being prepared.

COUNTRY CLUB—1 story frame, $7,000. San Anselmo, Marin Co., Cal. Architects, Mitchell & Hodges, Bankers' Investment Bldg., S. F. Owners, Hearthstone Country Club. Will contain large social rooms, private rooms, dining room and kitchen and locker rooms. Interior finish pine and redwood with some hardwood floors. Open fire place and stone mantel. Exterior covered with cement plaster. Plans complete and figures being taken.

Contracts Awarded

STREET PAVING—$46,671. Fairfield, Solano Co., Cal. Engineer, Town Engineer, Fairfield. Owners, Town of Fairfield. Contractor, W. A. Dontanville, Salinas. Contract price, $46,671.

Bids For Richmond Street Improvements.

Bids were opened at Monday's session of the Richmond City Council for four pieces of street work, including the paving of San Pablo avenue and the construction of sewers in three districts. Bids were referred to the City Attorney and the City Engineer. Following is a complete list of the bids received:

Wall Addition Sewers.

Raven Co., 909 Macdonald Ave., Richmond, 6 in. pipe, $.32; 10 in. pipe, $.44; 10 in. Ys, $.46; 6 in. Ys, $.20; manholes, $25; lampholes, $5.

L. B. Withers, 6 in. pipe, $.55; 10 in. pipe, $.73; 10 in. Ys, $.50; 6 in. Ys, $.30; manholes, $35; lampholes, $15.

Galbraith & James, 156 S-14th St., Richmond, 6 in. pipe, $.50; 10 in. pipe, $1.20; 10 in. Ys, $1.50; 6 in. Ys, $.35; manholes, $50; lampholes, $6.

Chambers & Heafy, Bacon Bldg., Oakland, 6 in. pipe, $.32; 10 in. pipe, $.40 10 in. Ys, $.50; 6 in. Ys, $.25; manholes, $32.50; lampholes, $3.

J. S. Belser, 6 in. pipe, $.58; 10 in. pipe, $.80; 10 in Ys, $.60; 6 in. Ys, $.30; manholes, $45; lampholes, $6.

L. L. Page, 728 Bissell Ave., Richmond, 6 in. pipe, $.31½; 10 in. pipe, $.42; 10 in. Ys, $.42; 6 in. Ys, $.25; manholes, $32.50; lampholes, $4.

Frank C. McIntyre, 215 E-Weber St., Stockton, 6 in. pipe, $.32; 10 in. pipe, $.48; 10 in. Ys, $.60; 6 in. Ys, $.29; manholes, $29; lampholes, $4.50.

William T. Edwards, 675 31st St., Oakland, 6 in. pipe, $.42; 10 in. pipe, $.60; 10 in. Ys, $.60; 6 in. Ys, $.30; manholes, $33; lampholes, $5.

Bates, Borland & Ayer, Oakland Bank of Savings Bldg., Oakland, 6 in. pipe, $.45; 10 in. pipe, $.65; 10 in. Ys, $.65; 6 in. Ys, $.35; manholes, $45; lampholes, $5.

Collman-Pullman Sewers.

Raven Co., 909 Macdonald Ave., Richmond, 6 in. pipe, $.33; 8 in. pipe, $39; 8 in. Ys, $.36; 6 in. Ys, $.20; manholes, $25 lampholes, $5.

L. B. Withers, Y. M. C. A. Bldg., Berkeley, 6 in. pipe, $.50. 8 in. pipe, $.54; 8 in. Ys, $.40; 6 in . Ys, $.30; manholes, $35; lampholes, $15.

Chambers & Heafy, 6 in. pipe, $.39; 8 in. pipe, $.47; 8 in. Ys, $.20; 6 in. Ys, $.20; manholes, $35; lampholes, $4.

L. L. Page, 6 in. pipe, $.31¾; 8 in. pipe, $.39; 8 in. Ys, $.35; 6 in. Ys, $.25; manholes, $32.50; lampholes, $4.

Fallon Constr. Co., Cypress near 4th St., Richmond, 6 in. pipe, $.50; 8 in. pipe, $.60; 8 in. Ys, $.50; 6 in. Ys $.30; manholes, $40; lampholes, $7.50.

William F. Edwards, 6 in. pipe, $.37; 8 in. pipe, $.40; 8 in. Ys, $.40; 6 in. Ys, $.30; manholes, $33; lampholes, $5.

Bates, Borland & Ayer, 6 in. pipe, $.46 8 in. pipe, $.52; 8 in. Ys, $.50; 6 in. Ys, $.35; manholes, $45; lampholes, $5.

Frank C. McIntyre, 6 in. pipe, $.32½; 8 in. pipe, $.40, 8 in. Ys, $.40; 6 in. Ys, $.28; manholes, $29; lampholes, $4.50.

Pullman Town Tract Sewers.

Raven Co., 6 in. pipe, $.35; 6 in. Ys, $.30; manholes, $30; lampholes, $6.

L. B. Withers, 6 in. pipe, $.46; 6 in. Ys, $.30; manholes, $35; lampholes, $15.

Galbraith & James, 6 in. pipe, $.45; 6 in. Ys, $.30; manholes, $40; lampholes, $5.

Chambers & Heafy, 6 in. pipe, $.32; 6 in. Ys, $.25; manholes, $32.50; lampholes, $3.

J. H. Belser, 6 in. pipe, $.60; 6 in. Ys, $.30; manholes, $35; lampholes, $6.

L. L. Page, 6 in. pipe, $.32½; 6 in. Ys, $.25; manholes, $32.50; lampholes, $4

F. C. McIntyre, 6 in. pipe, $.33; 6 in. Ys, $.30; manholes, $30; lampholes, $5.

William F. Edwards, 6 in. pipe, $.42; 6 in. Ys, $.30; manholes, $33; lampholes, $5.

San Pablo Avenue Paving

Ransome-Crummey Co., 1st National Bank Bldg., Oakland, excavating, $.70; filling, $.40; paving, $.17 8-10; shoulder, $.05; culverts, $2.25; catch basins, $50.

Johnson-Shea Co., Central Bank Bldg., Oakland, excavating, $.70; filling, $.45; paving, $.18½; shoulders, $.05; culverts, $2.25; catch basins, $48.

Municipal Imp. Co., 803 Macdonald Ave., Richmond, excavating, $.67; filling, $.35; paving, $.15 9-10; shoulders, $.05 1-10; culverts, $2.89; catch basins, $42.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

RESIDENCE — 1 story and base, frame. Cost not stated. Reedley, Fresno Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owner, Attorney Tackaberry. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans being prepared.

BRIDGES—Steel and reinforced concrete, $45,000. Visalia, Tulare Co., Cal. Engineer, County Surveyor B. O. Lovelace, Visalia. Owners, Tulare County. The Supervisors of Tulare County will consider in the June session the plan to improve the State highway further with the construction of new bridges. Included in the estimates to be submitted by County Surveyor B. O. Lovelace is the second half of Kingsburg bridge over Kings River on the State highway at a cost of about $25,000. The second largest item will be a new bridge over Tule River, known as the Rockford bridge, at a cost of about $8,000. A new bridge over the Bayou south of Tulare will also have to be built. The county has just completed the new span over one-half of Kings River at Kingsburg at a cost of $15,000 and planned to build the second span in the new fiscal year. Further mention will be made of this work.

SCHOOL—1 story and base, frame, concrete and hollow tile. Cost not stated. Wasco, Kern Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco Union High School District. Bids will be received until June 12th at 1 p. m. for furnishing all labor and materials necessary in the erection and completion of a one-story and base, concrete, brick, tile and frame high school building, including metal lockers, heating system, pump house and water systems, swimming tank and irrigating system, agricultural building, janitor's cottage, vehicle sheds, basket and tennis courts, sidewalks and electrollers, walks and curbing, pergolas and science fixture furniture.

SCHOOL—1 story, frame, $3,500. Fresno, Fresno Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Navelencia School District. Will contain one class room. Interior finish pine. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOLS—3, 1 and 2 story, brick or hollow tile, $150,000. Visalia, Tulare Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, City of Visalia. These architects have been selected to prepare plans for the three new school buildings to be erected as a result of the recent bond election. Further details will be given as plans progress.

HOTEL—2 story and base, frame. Cost not stated. Lindsay, Tulare Co., Cal. Architect, Merrill Bowser, care of Glass & Butner, Rowell Bldg., Fresno. Owner, G. T. Edwards, Hotel Lindsay. Will contain 26 rooms, several baths and office, lobby and dining room. Interior finish pine and redwood. Hot water system and steam heat. Bath rooms composition floors. Exterior covered with rustic and cement plaster. Plans being prepared.

SCHOOL—1 story and base, reinforced concrete, $150,000. Merced, Merced Co., Cal. Architect not selected. Owners, Merced High School District. At the Friday meeting of the Merced High School Trustees all competitive drawings with the exception of those submitted by Architect Charles Bigger of Bakersfield and Joseph De Remer, associated with Architect Hewett of Los Angeles, were rejected. These two sets of plans will receive further consideration and a selection will be made from one of these two. The building will be a one-story reinforced concrete structure designed for high school purposes.

LIBRARY—1 story and base, brick. Cost not stated. Newman, Stanislaus Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Town of Newman. Will contain reading rooms, stack room and office. Interior finish pine and redwood. Hardwood floors. Central heating system. Metal book stacks. Exterior faced with cement plaster or brick. Plans complete and figures being taken. Bids close on June 3rd Plans can be secured from the architect.

Contracts Awarded

IRRIGATION DAM—Reinforced concrete, $89,487.50. Modesto, Stanislaus Co., Cal. Engineer, Chief Engineer Herrmann, Modesto. Owners, Modesto Irrigation District. The contract to complete the work of Peart Bros. in construction of dam No 1 of the Dallas reservoir in which they failed, was awarded to the Tibbitts-Pacific Co., 16 California street, S. F., by the Board of Directors of the Modesto Irrigation District for $89,487.50. Three bids for construction were before the board for consideration, the lowest being $61,700 by the Blake Bros. Co. This bid, however, had conditions attached which were objectionable to the board, and for this reason was rejected. The other bid, the highest, was $122,892.50 by the Ross Construction Co.

STREET PAVING AND CURBS—Cost as follows. Modesto, Stanislaus Co., Cal. Engineer, City Engineer, Modesto. Schafer Bldg., Modesto. Contract price, Central California Paving Co., 12 Schafer Bldg., Modesto. ontract price, paving 12½c per square foot; curbs and gutter, 65c per lineal foot.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

HIGHWAY IMPROVEMENT — Cost noe stated. Stockton, San Joaquin Co., Cal. Engineer, County Surveyor F. E. Quail, Stockton. Owners, San Joaquin County. Bids will be received on June 6th at 10 a. m. for improvement work on the New Hope Landing road from the New Hope Landing bridge in an easterly direction, a distance of approximately 2½ miles.

HIGHWAY IMPROVEMENTS — Cost not stated. Crescent City, Del Norte Co., Cal. Engineer, County Surveyor, Crescent City. Owners, Del Norte County. Bids will be received on June 12th at 10 a. m. to clear, grade and gravel a 20-foot right-of-way for a distance of 1,290 feet, commencing at the west end of Pacific avenue, running thence to county road on the coast at Pebble Beach. Gravel to be placed on road bed two wagon loads wide, of one cubic yard each. Bidders to bid separately on clearing, grading and graveling.

STREET AND SEWER IMPROVEMENTS—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications for the improvement of Miner avenue were approved and adopted. Sealed bids were called for which should provide for progressive payments. The bids will be opened June 2nd. At the same meeting resolutions were adopted calling for bids for the installation of 12-inch sanitary sewers on North El Dorado street from the center line of Sonoma avenue to the Center line of Wyandotte avenue. Progressive payments are provided for and bids will be opened June 2nd. Plans for both improvements may be had from the City Clerk at Stockton.

BRIDGE TIMBER—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, County Surveyor Quail, Stockton. Owners, San Joaquin County. Bids will be received up to June 8th at 10 a. m. for furnishing all material, labor, tools and machinery and constructing a wooden trestle bridge over Big Dam Slough on the I. L. Borden road.

BRIDGES—Steel and reinforced concrete. Cost not stated. Redding, Shasta Co., Cal. Engineer, County Surveyor, Redding. Owners, Shasta County. The County Board of Supervisors has adopted plans and specifications for two bridges. Bids are to be received at the July meeting of the Board. A 40-foot span will be added to the bridge over Colver Creek near Millville and an 80-foot bridge will be built on Stillwater near the Leighton place. Plans may be had from the County Clerk.

BRIDGE AND WEIR — Reinforced concrete and steel, $336,640. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Nine sets of figures were opened by the Sacramento City Council for the construction of a reinforced concrete bridge and weir at their meeting Tuesday, May 23rd. Bids were taken on two propositions: Proposition B for both the weir and bridge and proposi-

tion C for the bridge only. Bids of Teichert and Ambrose and of Howard S. Williams were taken under advisement and a contract will probably be awarded at Thursday's meeting. A complete list of the bids received will be found under the heading of Sacramento and Northern California in this issue.

BRIDGE—Reinforced concrete. Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be received up to June 20th at 10 a. m. for the construction of a masonry and reinforced concrete highway bridge on the Wild Horse Valley road about 200 yards west of the Harmony District school house.

BRIDGE—Steel and concrete. Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on June 20th at 10 a. m. for the building of two masonry and concrete highway bridges across a branch of Capell Creek near the residence of T. J. Bradshaw, one to be 14-foot span and the other to be 22-foot span.

RESIDENCES — 7, 1 and 2 story, frame, $2,500 to $4,000. Stockton, San Joaquin Co., Cal. Architect, Chester H. Miller, First Savings Bank Bldg., Oakland. Owner, A. F. Werum. Location, Yosemite Terrace. The dwelling will contain from six to eight rooms, baths and sleeping porches. Interiors finished in pine, redwood and hardwood with white enamel in the bed rooms. Furnace heat in the larger dwellings. Open fire places and brick and tile mantels. Path rooms tile. Automatic water heaters. Exteriors covered with rustic, shingles and cement plaster. Plans complete and owner taking segregated figures.

RESIDENCE — 2 story and base, frame, $3,500. Sacramento, Cal. Architect, Charles W. McCall, Central Bank Bldg., Oakland. Owner's name withheld. Location, near Sacramento. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with shingles. Plans being prepared.

RESIDENCE — 2 story and base, frame, $10,000. Napa, Napa Co., Cal. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner, Mr. Hollinger. Will contain twelve rooms, three baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms finished in tile. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, Class C, $45,000. Eureka, Humboldt Co., Cal. Architects, Koenig & Christiansen, Humboldt Bank Bldg., S. F. Owners, Daly Bros. Mercer-Fraser Co., Eureka, submitted the lowest figure for this work at $43,500, exclusive of plumbing, heating and fire escapes. Lamont & Richardson were second at $44,390. Both bids have been taken under advisement.

SUSPENSION BRIDGE — $4,500. Weaverville, Trinity Co., Cal. Engineer, County Surveyor, Weaverville. Owners, Trinity County. Bids are now being taken for the construction of a cable suspension bridge, 236-foot span, 70-foot approach steel towers and 8-foot roadway. Plans and specifications can be secured from the County Clerk.

WAREHOUSE—1 story, hollow tile, $8,000. Sacramento, Cal. Architect, A. Willoner, 2430 L street, Sacramento. Owners, California Almond Growers' Association. Location, 18th and P streets. Construction, Dennison hollow block Cement floor. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—1 story, frame, $3,500. Manteca, San Joaquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owners, Manteca School District. Will contain two class rooms. Interior finish pine. Exterior covered with rustic and shingles. Plans complete and figures being taken.

HOSPITAL WARD—1 story, frame. Cost not stated. Hoopa Valley, Humboldt Co., Cal. Architect, none. Owners, United States Government. Bids will be received by the Department of Indian Affairs, Washington, D. C., on June 13th for constructing a one-story frame hospital building at the Hoopa Valley Indian School. Plans and specifications can be secured from the U. S. Indian Warehouse, 608 Howard street, S. F.

HOSPITAL COTTAGES—2, 1 story, concrete and frame. Cost not stated. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. Bids will be received up to June 19th at 12 noon for constructing two frame cottages for physicians at the Stockton State Hospital. Interior finish pine with some hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Exterior shingles and cement plaster. Plans can be secured from the State Department of Engineering. An official proposal appears in another column of this issue.

Contracts Awarded

BATH HOUSES—2, 1 story, concrete and frame. $25,000. Calistoga, Napa Co., Cal. Architect, Frank S. Holland, Call Bldg., S. F. Owner, G. Ichari. Contractor, J. S. Hannah, Williams Bdg., S. F. Contract price, $25,000.

CHURCH—1 and 2 story and base, reinforced concrete $27,975. Napa, Napa Co., Cal. Architect, L. M. Turton, Napa. Owners, Methodist Episcopal Church of Napa. Contractor, W. M. Coffield, Napa. Contract price, $27,975.

Bids Received For Sacramento Work.

Construction of a Reinforced Concrete Bridge and Weir by City of Sacramento Attracts Bidders.

Nine sets of figures were opened by the Sacramento City Council for the construction of a reinforced concrete bridge and weir at their meeting Tuesday, May 23rd. Bids were taken on two propositions. Prop. No. B for both the weir and bridge and Prop. C for the bridge only.

Bids of Teichert & Ambrose and of Howard S. Williams were taken under advisement and a contract will probably be awarded at Thursday's meeting.

Following is a complete list of the bids received:

Sacramento Bridge and Weir.

Teichert & Ambrose, Sacramento	$336,640	$225,780
Howard S. Williams, San Francisco	357,034	212,390
Clark & Henery, Sacramento	364,560	240,920
Ross Constr. Co., Sacramento	373,395	243,935
Tibbitts-Pacific Co., San Francisco	380,713	244,429
McLeran & Peterson, San Francisco	407,325	224,225
James Kennedy, Los Angeles	423,677	274,829
Blake Bros. Co.	433,082	287,010
Sound Constr Co., S. F.	445,724	277,736

LOS ANGELES AND SOUTHERN CALIFORNIA

HIGHWAY IMPROVEMENT — Cost not stated. Riverside, Riverside Co., Cal. Engineer, County Surveyor, Riverside. Owners, Riverside County. Bids will be received up to June 7th at 10 a. m. for the improvement of 2.86 miles of roadway from the east end of present pavement to foot of Belmont-Moreno grade. Said improvement consisting in part of paving with concrete 16 feet wide, 4 inches thick, 2.86 miles of roadway.

RESIDENCE — 2 story and base, hollow tile and concrete, $80,000. Montecito, Santa Barbara Co., Cal. Architect's name not stated. Engineer, F. F. Fournoy, Santa Barbara. Owner, David B. Jones, Arlington Hotel, Santa Barbara. Work will be done by John Williamson, Santa Barbara.

STREET PAVING, ETC.—Cost not stated. Ontario, San Bernardino Co., Cal. Engineer, City Engineer B. B. Mann, Ontario. Owners, City of Ontario Bids will be received by the City Clerk up to 7:30 p. m. of June 5, 1916, for improving a portion of Campus avenue, involving approximately 23,500 linear feet of concrete curb and gutter, and 400,000 square feet of grading, oiling and graveling, in accordance with plans and specifications on file in the office of the City Engineer. Certified check of 10 per cent is required.

HIGHWAY IMPROVEMENTS — Cost as follows. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors of Los Angeles County up to 2 p. m. of Monday, June 5, 1916, for constructing macadam pavement and cement curbs on Craig avenue, and concrete pavement with cement curbs on Ray avenue and Texas street, La Canada, in Road Improvement District No. 78. The length of the improvement cost is $11,844.55. The work will require 16,847 yards of excavation, 6,550 linear feet of shaping, placing of 382 tons of macadam, placing 12,959 linear feet of concrete curb, placing 14,939 square yards of concrete paving, 177 yards of concrete for culverts, 9,610 pounds of reinforcing steel, 52 linear feet of pipe railing, 5,300 linear feet of expansion joints, four manholes, etc. The county will furnish the cement, gravel, rock, sand and oil.

STEET PAVING—Cost not stated. Burbank, Los Angeles Co., Cal. Engineer, City Engineer, Burbank. Owners, City of Burbank. The Board of Trustees rejected all bids received for repairing and widening the macadamized portion of San Fernando boulevard between the south city limits and Cypress

avenue. The material will be purchased in the open market and the work done by Day Labor.

BRIDGES—Steel and reinforced concrete. Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. Bids will be received by the Board of Supervisors up to 10 a. m. of June 6, for the construction of the following bridges: (1) A 40-foot span reinforced concrete beam bridge across the Pozo Creek on the San Jose Valley and La Panza road about 20 miles from the Southern Pacific Railroad station at Santa Margarita; and (2) a 150-foot span steel truss bridge across the Salinas River on the Rinconada and Las Pilitas road about 7 miles from the Southern Pacific Railroad station at Santa Margarita. Separate bids must be filed for each structure, and in accordance with plans and specifications on file at the office of the Clerk.

BRIDGES—4, reinforced concrete and steel. Cost not stated. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County. Bids will be received by the Board of Supervisors up to 10 a. m. of June 6th for the construction of the following bridges: (1) a 50-foot reinforced concrete arch across Pico Creek about four miles from steamer landing at San Simeon. (2) A 48-foot einforced concrete arch across the Arroya del Puerta about one-eighth of a mile from steamer landing at San Simeon. (3) A 40-foot reinforced concrete bridge on Ocean avenue in town of Cayucos, about one-eighth of a mile from steamer landing at Cayucos. (4) A concrete girder bridge of two 50-foot spans across Toro Creek about 3½ miles from steamer landing at Cayucos in accordance with plans and specifications on file at the office of the Clerk of the Board. Separate bids for each bridge required.

WAREHOUSES—2, 3 and 1 story and base, reinforced concrete, $60,600. Wilmington, Los Angeles Co., Cal. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Los Angeles Warehouse Co. Three-story building will cover an area of 84 by 200 and the one-story 50 by 240 feet. Construction fireproof. Metal window sash and frames and fireproof doors. Interiors finished in pine. Automatic sprinklers. Exteriors faced with cement plaster. Plans complete and figures being taken.

HOSPITAL—10, 1 story, frame, steel and concrete, $250,000. Los Angeles, Cal. Architect, John Schultz, Wright and Callender Bldg., L. A. Owner, Los Angeles County. The proposed buildings will consist of ten units, each one story high, 56 by 120 feet, divided into three sections, the central or enclosed part and two screened sleeping wards. The new plans will provide for buildings with structural steel frame work, concrete foundations, concrete floor slabs hollow tile filler walls, wood frames composition roofing and especially designed for adjustable roofs. This work was formerly in the hands of the county architectural department. Plans are being prepared.

MASONIC HOME—3 story and base, brick, $30,000. Puyallup, Wash. Architect, Andrew Willatzen, Boston Block, Seattle. Owners, Masonic Relief Association. Will cover an area of 40 by 80 feet and contain 40 rooms and six baths. Interior finish pine and white enamel. Some hardwood floors. Steam heat, hot water supply and oil burning furnace. Bath rooms tile. Exterior faced with pressed brick. Plans complete and figures being taken.

Contracts Awarded

HIGHWAY GRADING, ETC. — $11,016.25. Riverside, Riverside Co., Cal. Engineer, County Surveyor, Riverside. Owners, Riverside County. Contractors, C. L. Hyde Co., 954 3rd street, San Diego. Contract price, $11,016.25.

APARTMENT HOUSE—2 and 4 story and base. Class C construction, $35,000. Los Angeles, Cal. Architect, none. Owner, Mrs. Hart. Contractors, The L. F. S. Syndicate, Investment Bldg., L. A. Contract price, $35,000.

RESIDENCE — 2 story and base, stone and plaster. Cost not stated. Los Angeles, Cal. Architect, none. Owner, F. P. Bacon. Contractors, De Lux Building Co., Union League Bldg., L. A. Contract price not stated.

LIBRARY—1 story, frame. Cost not stated. Antioch, Contra Costa Co., Cal. Architect, Francis W. Reid, Antioch. Owners, Town of Anitoch. Will contain main reading room, office and stack room. Interior finish pine and redwood. Maple floor. Stove for heating. Exterior covered with cement plaster. Plans complete and figures being taken. Bids close on June 5th at 11 a. m.

BRIDGE ABUTMENTS — Reinforced concrete. Cost as follows. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Contractors, Hunter Bros., Ventura. Contract prices, Casitas bridge, $2,365; La Crosse bridge, $4,900.

PORTLAND AND OREGON

JETTY CONSTRUCTION — Cost not stated. Gardiner, Ore. Engineer, Christie, Gardiner. Owners, Port of Umpqua. J. P. Christie, secretary of the Port of Umpqua, is receiving bids until 8 p. m., July 3rd, for constructing the north jetty at the mouth of the Umpqua River. The work is to be done in accordance with plans and specifications on file with Mr. Christie at Gardiner. A bond issue of $200,000 was recently sold to handle the contract. A certified check is required with each proposal. Further information may be had from Mr. Christie at Gardiner.

APARTMENT HOUSE—4 story and base, brick, $60,000. Portland, Ore. Architect, none. Owner, H. O. Triplett, Chamber of Commerce Bldg., Portland. Location, west Glisan and 23rd streets, covering an area of 50 by 96 feet. Will contain 36 apartments of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning plant and hot water system. Automatic elevator. Wall beds and vacuum cleaning. Bath rooms finished in tile. Marble and tile wainscot in lobby. Exterior faced with pressed brick. Plans complete and segregated figures being taken by the owner.

FACTORY—5 story and base, reinforced concrete, $150,000. Portland, Ore. Architect, Engineering Department American Can Co. Owners, American Can Co. Location, Cedar and Railroad avenue, covering an area of 120 by 240 feet. Fireproof construction, hollow tile interior partitions. Elevators and steam heat. Metal window sash and frames. Fireproof doors. Exterior faced with cement plaster. Plans nearly complete and figures to be called for shortly.

SCHOOL—2 story and base, brick, $25,000. Wasco, Ore. Architects, Tourtellotte & Hummel, Rothchild Bldg., Portland. Owners, City of Wasco. Will contain eight class rooms and an assembly hall. Interior finish pine with maple floors. Steam heat and modern school plumbing. Exterior faced with pressed brick. Plans being prepared.

SEATTLE AND WASHINGTON

GARAGE—3 story and base, concrete and brick. Cost not stated. Seattle, Wash. Architects, Webster & Ford, Green Bldg., Seattle. Owner, Joshua Green. Contractors, MacRae Bros., Empire Bldg., Seattle. Contract price not stated.

Contracts Awarded

BRIDGE—Reinforced concrete, $36,845. Fall City, Wash. Engineer, City Engineer Denton, Fall City. Owners, Fall City. Contractor, A. Levengreen, 3826 Eastern avenue, Seattle. Contract price, $35,845.

ELEPHANT BUTTE DAM.

ELEPHANT BUTTE, N. M. —Work has been completed on the Elephant Butte dam, a United States reclamation project, which by damming the Rio Grande River forms a reservoir with a capacity of 115,000,000,000 cubic feet of water. Construction began five years ago. The reservoir will feed an irrigation system that will water 185,000 acres of land in New Mexico, Texas and Mexico. The dam blocks a canyon on the Rio Grande 120 miles north of El Paso.

ALPAUGH IRRIGATION DISTRICT.

TULARE—Work on the new Alpaugh Irrigation District, to cost $165,000 will begin at once. Representatives of the district and of the McClenahan-Kraner Carter Co. of San Francisco signed a contract in Visalia and well rigs will be set up at once in the Alpaugh district. The contract calls for the drilling of five wells, erection of towers, laying water pipes and constructing ditches.

STEEL TROUGH DECKING FOR BRIDGES.

An American consular officer in a European country reports that a company is being formed to acquire the patent of a new steel trough decking for bridges, culverts, aid tunnels on railway lines. Plans describing the new decking and its application were transmitted by the consular officer to the Bureau of Foreign and Domestic Commerce as being of possible interest to American railways or suppliers of such materials, and can be examined at the Bureau, Customhouse, San Francisco. Refer to file No. 75146.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

.	Owner	Contractor	Amt.
5	Steinbach	Johnson	1930
6	Same	Same	1930
7	Same	Same	1930
8	Same	Same	1930
9	Nelson	Nelson	2500
0	Nelson	Nelson	2500
1	Nelson	Nelson	2500
2	Nelson	Nelson	2500
3	Nelson	Nelson	2500
4	Reinhart	Reinhart	1950
5	Same	Same	1950
6	Same	Same	1950
7	Same	Same	1950
8	Same	Same	1950
9	Same	Same	1950
9	Fassio	Fassio	1500
1	Judson	Judson	500
2	Cal Optical	Duval	750
3	Bruecker	Carter	675
4	Urban	Urban	4000
5	Kestler	Witzelsberger	4500
96	Arnoux	Thunberg	2130
7	Dutton	Hannah	5672
8	Darius	Schaefer	4062
9	Otis	Thorup	—
0	Costello	Feerick	3000
1	Duffee	Duffee	3000
4	Ehrenpfort	Murer	8000
3	Altist	Reichel	2400
4	Ehrenpfort	Maurer	8000
5	Bica	Tessmer	1650
6	Fleissner	Martin	3750
7	Donahue	Lynch	1000
8	Gazzone	Ghiatto	1650
9	O'Connor	Madden	2463
0	Frank	Smith	1750
1	Straub	Straub	1850
2	Peterlein	Montrouil	1450
3	Williams	Woolfrey	3000
4	Silviera	Allen	2000
5	Rogers	Smith	1200
6	Shemansky	Bailey	2500
7	Clifford	Mager	8800
8	Christopher	Erickson	400
9	Farmer	Callaghan	740
20	Hilson	Pasqualetti	950
21	Carr	Howard	800
22	Pfefferman	Nimmo	400
23	Larkin	Larkin	400
4	Dragaman	Arnold	400
25	Bjorkman	Bjorkman	2000
26	Damon	Damon	1500
27	Curtaz	Curtaz	20000
8	David	Purcell	3225
9	Burke	Kelly	700
0	Koenig	Koenig	4000
31	Nelson	Nelson	2500
2	Alsing	Alsing	500
3	Mershin	Zinkand	500
4	Reingpach	Nielsen	500
5	Scully	Scully	500
6	Nelson	Nelson	2800
7	Nelson	Nelson	2800
8	Allee	Petersen	30975
9	Marriott	Spargo	5300
0	Commary	Scott	7451
1	Gazzano	Ghiotto	1650
2	Morris	Dahl	1800
3	Michel	Ponsero	4800
4	Giannini	Filippis	2400
5	Webb	Gerke	380
6	McCarthy	McCarthy	1950
7	Fontana	Carraro	800
8	Ghiotto	Ghiotto	1900
9	Morris	Morris	2500
0	Munk	Munk	3500
1	McCrum	McCrum	860
2	McCarthy	McCarthy	1950
3	Kummer	Baker	600
4	Bell	McDonald	675
5	Vayssie	Beck	15609
6	Same	Lettich	3700
7	Svgs Union	Central	999
8	Same	Brady	5500
9	Same	Snook	2975
0	Same	Mangrum	1390

AME RESIDENCE
575) S SAN JOSE AVE 135 Santa Ynez. One and one-half-story and basement frame residence.
ner.....H. Steinbach, Mills Bldg., San Francisco.
chitect ...None.
Contractor..Louis Johnson, 188 Bertita, San Francisco.
COST, $1930

FRAME RESIDENCE
(1576) S SAN JOSE AVE 190 W Santa Ynez. One and one-half-story and basement frame residence.
Owner.....H. Steinbach, Mills Bldg., San Francisco.
Architect ...None.
Contractor..Louis Johnson, 188 Bertita, San Francisco.
COST, $1930

FRAME RESIDENCE
(1577) S SAN JOSE AVE 166 W Santa Ynez. One and one-half-story and basement frame residence.
Owner.....H. Steinbach, Mills Bldg., San Francisco.
Architect ...None.
Contractor..Louis Johnson, 188 Bertita, San Francisco
COST. $1930

FRAME RESIDENCE
(1578) S SAN JOSE AVE 211 W Santa Ynez. One and one-half-story and basement frame residence.
Owner.....H. Steinbach, Mills Bldg., San Francisco.
Architect ...None.
Contractor..Louis Johnson, 188 Bertita, San Francisco.
COST, $1930

FRAME DWELLING
(1579) E TWENTY-EIGHTH AVE 193 N Irving. Two-story and basement frame dwelling.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Days work. COST, $2500

FRAME DWELLING
(1580) W TWENTY-SEVENTH AVE 175 N Irving. Two-story and basement frame dwelling.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Days work. COST, $2500

FRAME DWELLING
(1581) W TWENTY-SEVENTH AVE 200 N Irving. Two-story and basement frame dwelling.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Days work. COST, $2500

FRAME DWELLING
(1582) W TWENTY-SEVENTH AVE 225 N Irving. Two-story and basement frame dwelling.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Days work. COST, $2500

FRAME DWELLING
(1583) E TWENTY-EIGHTH AVE 115 S Lincoln Way. Two-story and basement frame dwelling.
Owner .F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Days work. COST, $2500

FRAME DWELLING
(1584) W ARKANSAS 350 S 20th. One-story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1585) W ARKANSAS 377-8 S 20th. One-story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1586) W ARKANSAS 405-4 S 20th. One story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1587) E WISCONSIN 350 S 20th. One-story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1588) E WISCONSIN 377-8 S 20th. One story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

FRAME DWELLING
(1589) E WISCONSIN 405-4 E 20th. One-story and basement five-room frame dwelling.
Owner.....Chas. E. Reinhart, 17th and Kansas, San Francisco.
Architect ...None.
Day's work. COST, $1950

ALTERATIONS
(1590) NO. 2729 LOMBARD. Alter and add to tenements.
Owner.....G. Fassio, Premises.
Architect ...J. A. Porporato, 619 Washington, San Francisco.
Day's work. COST, $1500

ALTERATIONS
(1591) NO. 1443 FORTY-SEVENTH Ave. Move and alter dwelling.
Owner.....C. E. Judson, Premises.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(1592) NO. 181 POST. Rearrange fixtures in store.

Owner.....California Optical Co., Prem
Architect ...None.
Contractor..Oliver Duval & Son, 230 Dalziel Bldg., Oakland.
COST, $750

ALTERATIONS
(1593) NO. 1642 FORTY-EIGHTH AV. Alter store.
Owner.....G. D. Bruecker, Premises.
Architect ...None.
Contractor..L. H. Carter.
COST, $675

FRAME DWELLING
(1594) E URBANO DRIVE 200 N Victoria. One-story and basement frame dwelling.
Owner.....Urban Realty Imp. Co., 85 Cerritos Ave., S. F.
Architect ...Jos. A. Leonard, 85 Cerritos Ave., San Francisco.
Day's work. COST, $4000

FRAME FLATS
(1595) E BRYANT 57-3½ N Army N 30xE 75. All work for two-story and basement frame (4) flats.
Owner.....Amalia Kestler, 218 Bradford, San Francisco.
Architect ...Jacob Witzelsberger.
Contractor..J. Witzelsberger, 176 Rousseau, San Francisco.
Filed May 20, '16. Dated May 18, '16.
Frame up $1125
Rough plastered 1125
Finished and accepted..... 1125
Usual 35 days..... 1125
TOTAL COST, $4500
Bond, $2250. Surety, Massachusetts Bonding & Insurance Co. Limit, 75 days from May —. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(1596) NO. 3024 GEARY. All work except painting, paper and light fixtures for alterations to one-story frame dwelling.
Owner.....Marie Arnoux.
Architect ...None.
Contractor..Gus E. Thunberg, 640 9th Ave., San Francisco.
Filed May 20, '16. Dated May 18, '16.
Underpinned and enclosed.....$530
Lathed and plastered..... 530
Completed and accepted..... 530
Usual 35 days..... 540
TOTAL COST, $2130
Bond, none. Limit, 90 days from granting permit. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1597) N VALLEJO 246-4½ W Scott W 27-6xN 137-6. Excavation, concrete, iron, brick, tiling, carpenter, tin, galvanized iron, mill, roofing, rough hardware, glass, glazing, lath and plaster for two-story and basement frame residence.
Owner.....Grayson Dutton, Cr Fire-Man's Fund Ins. Co., 401 California, San Francisco.
Architect ...W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..J. S. Hannah, 507 Williams Bldg., San Ffancisco.
Filed May 20, '16. Dated May 17, '16.
Roof on $1418
Exterior plaster done and interior brown coated 1418
Completed and accepted..... 1418
Usual 35 days..... 1418
TOTAL COST, $5672
Bond, $2836. Sureties, J. D. Hannah and G. W. Cushing. Limit, 60 days. Forfeit, $10. Plans and specifications filed.

FRAME BUNGALOW
(1598) THIRTY-EIGHTH AVE AND Geary, Lyon and Hoag Tract. All work for one and one-half-story and basement frame bungalow.
Owner.....J. O. Darius, 155 4th Ave., San Francisco.
Architect ...None.
Contractor..Geo. P. Schaefer, 595 8th Ave., San Francisco.
Filed May 20, '16. Dated May 17, '16.
Frame up and sheathed, etc....$1500
Electric wiring done and plumbing roughed in, chimneys done, brick mantel built, exterior plaster and cement work completed, etc. 1500
Completed and accepted..... 1062
TOTAL COST, $4062
Bond, none. Limit, Aug. 17, 1916. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1599) NW PRESIDIO & JACKSON. All work for alterations and additions to two-story attic and basement frame residence.
Owner.....James Otis, 310 California, S. F. and M. Hall McAllister, Tr. Est. I. O. Bigelow, Dec'd.
Architect ...Edward B. Seely, 255 California, San Francisco.
Contractor..Jacob H. Thorup, 281 26th Ave., San Francisco.
Filed May 20, '16. Dated May 18, '16.
Owner to pay all bills for materials
Laborers to be paid every alternate Saturday .....
5% to contractor to be paid monthly
TOTAL COST, Owner to pay for labor and material furnished and 5% additional to Contractor.
Bond, none. Limit, as fast as possible. Forfeit, none. Plans and specifications filed.
brick manufacturing building. Cost, $5,900. Owner, P. F. Ferguson.

FRAME DWELLING
(1600) E SEVENTEENTH AVE 225 N Balboa. Two-story and basement frame dwelling.
Owner.....Costello & Feerick, 204 San Carlos Ave., S. F.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(1601) W TENTH AVE 150 N Kirkham Two-story and basement frame dwlg.
Owner.....Alpheus Duffee, 685 Dolores, San Francisco.
Architect ...None.
Day's work. COST, $3000

(1602) E MONTGOMERY 137-6 N Chestnut. One and two-story concrete and brick annex for grain elevator.
Owner.....Globe Grain & Milling Co., Premises.
Engineer ...Burrell Eng. & Constr. Co., 1110 Webster Bldg., Chicago, Ill.
Contractor..H. H. Larsen & Bro., 62 Post, San Francisco.
COST, $20,000

FRAME FLATS
(1603) N VALLEY 100 W Dolores. Two-story and basement frame (2) flats.
Owner.....Anna D. Altist, 1577 Sh ter Ave., San Francisco.
Architect ...None.
Contractor..Erwin Reichel, 1227 Sha ter Ave., San Francisco.
COST, $24

FRAME APARTMENTS
(1604) N HOWARD 115 W 11 Three-story and basement frame (apartments.
Owner.....A. G. Ehrenpfort, 801 Fi more, San Francisco.
Architect ...None.
Contractor..F. J. Maurer, 3526 Fulto San Francisco.
COST, $80

FRAME DWELLING
(1605) SE HOLLISTER AND HAWE One-story and basement frame dw
Owner.....Isidor Rica, Premises.
Architect ...None.
Contractor..H. A. Tessmer, 1121 K Ave., San Francisco.
COST, $16

REPAIRS
(1606) NO. 2560 VALLEJO. Repa fire damage to flats.
Owner.....Otto Fleissner, Premise
Architect ...Frederick D. Boese, N Call Bldg., San Francisc
Contractor..Wm. Martin, 110 Jessi San Francisco.
COST, $37

FRAME DWELLING
(1607) W MOULTRIE 175 N Tom kins. Two-story and basement fra dwelling.
Owner.....John Donahue, 331 Mou trie, San Francisco.
Architect ...None.
Contractor..A. Lynch, 185 Stevens San Francisco.
COST, $10

FRAME DWELLING
(1608) NO. 210 SAGAMORE. One a one-half-story and basement fra dwelling.
Owner.....Giabatta Gazzano, 2 Sagamore, San Francisc
Architect ...None.
Contractor..B. M. Ghiatto, 231 Dela Ave., San Francisco.
COST, $16

FRAME DWELLING
(1609) W SANCHEZ 25 S 30th. O and one-half-story and baseme frame dwelling.
Owner.....Mr. O'Connor, Missi High School, San Francis
Architect ...None.
Contractor..P. H. Madden, 1527 Je rold Ave., San Francisco.
COST, $24

FRAME STORE
(1610) SE MISSION 25 SW Brazil. On story and basement frame store.
Owner.....A. B. Frank, 4611 Missio San Francisco.
Architect ...None.
Contractor..W. P. Smith, 109 Braz San Francisco.
COST, $17

FRAME SALOON
(1611) NE DIAMOND & WILDE One-story and basement fram saloon.
Owner.....August Straub, 698 Che ery, San Francisco.

itect ...John F. Beuttler, 1110 Phelan Bldg., S. F.
s work. COST, $1850

ME DWELLING, ETC.
2) SW COURTLAND 130 SE Prospect. One-story frame shop and elling.
er....Reinhold Peterlein, 217 Cortland, San Francisco.
itect ...None.
ractor..P. W. Montrouil, 270 Andover, San Francisco.
COST, $1450

ME RESIDENCE
3) N TWENTIETH 305 W Church. vo-story and basement frame resince.
er.....James R. Williams, 86 Fair Oaks, San Francisco.
itect ...None.
ractor..John B. Woolfrey, 2581 Mission, San Francisco.
COST, $3000

ME DWELLING
4) W WOOD 325 N Geary. Two-ory and basement frame dwlg.
ier.....Manuel Silviera, 1553 Turk, San Francisco.
itect ...None.
tractor..L. L. Allen, 4525 Mission, San Francisco.
COST, $2000

ME DWELLING
5) E TREAT AVE 376 S Precita. ne-story and basement frame dwlg.
ner.....Geo. A. Rogers, 1578 Treat Ave., San Francisco.
hitect ...None.
tractor..W. R. Smith, 846 Carolina, San Francisco.
COST, $1200

TERATIONS
6) NOS. 1425 TO 1429 PAGE. aise, add to and alter frame tenements.
ner.....I. Shemansky, 3950 Clay, San Francisco.
hitect ...None.
tractor..J. M. Bailey, 310 Excelsior Ave., San Francisco.
COST, $2500

AME BUILDING
17) NW CLIPPER AND SANCHEZ 24xW 78. All work except gas and lectric fixtures, window shades and all beds for three-story frame bldg.
ner. ....Anna M., Abigail & Helen J. Clifford.
hitect ...None.
ntractor..Mager Bros., 110 Jessie, San Francisco.
ed May 22, 16. Dated May 12, '16.
Frame up $2200
Brown coated 2200
Completed and accepted..... 2200
Usual 35 days..... 2206
TOTAL COST, $8800
nd, none. Limit, 90 days. Forfeit, ne. Plans and specifications filed.

LTERATIONS
618) NOS. 2390-92 MISSION. Alter store.
ner.....F. J. Christopher, Prem.
chitect ...None.
ntractor..Ernest B. Erickson, 972 Plymouth, San Francisco.
COST, $400

ADDITIONS
(1619) NO. 331 ELEVENTH AVE. Add two rooms.
Owner.....Henry E. Farmer, Prem.
Architect ...None.
Contractor..Callaghan Bros., 900 Clayton, San Francisco.
COST, $740

ALTERATIONS
(1620) NOS. 426-428 PACIFIC. Alter laundry.
Owner.....A. Hilson, 301 Geary, S. F.
Architect ...None.
Contractor..J. Pasqualetti, 785 Market, San Francisco.
COST, $950

FRAME DWELLING
(1621) N ANZA 32-6 W 21st Ave. One-story and basement frame dwlg
Owner.....Alfred Carr, 2004 Anza, San Francisco.
Architect ...None.
Contractor..Joseph Howard, 1745 Anza, San Francisco.
COST, $800

ADDITION
(1622) No. 184 CLIPPER. Add for store.
Owner.....C. Pfefferman, Premises.
Architect ...None.
Contractor..Geo. Nimmo, 634 Clay, San Francisco.
COST, $400

ADDITION
(1623) NO. 112 RIPLEY. Add to dwelling.
Owner.....D. Larkin, Premises or 220 1st Ave., San Francisco.
Architect ...None.
Day's work. COST, $400

ADDITION
(1624) W KANSAS 25 N 20th. Add to dwelling.
Owner.....F. Dragaman, 780 Kansas, San Francisco.
Architect ...None.
Contractor..F. Arnold, 790 Kansas, San Francisco.
COST, $400

FRAME DWELLING
(1625) S TWENTIETH 30 E Sanchez. Two-story and basement five-room frame dwelling.
Owner.....John Bjorkman, 1239 Athens, San Francisco.
Architect ...None.
Day's work. COST, $2000

ALTERATIONS
(1626) N FULTON 36-6 W 19th Ave. Alter and add to dwelling.
Owner.....Mrs. Mary Damon, 4302 Fulton, San Francisco.
Architect ...None.
Day's work. COST, $1500

FRAME APARTMENTS
(1627) W SEVENTH 25 N Natoma. Three-story and basement frame (17) apartments.
Owner.....O. H. Curtaz, 521 Hyde, San Francisco.
Architect ...None.
Day's work. COST, $20,000

FRAME RESIDENCE
(1628) W TWENTY-THIRD AVE 100 S Geary S 25xW 120. All work for two-story frame residence.
Owner.....Frank and Augustin David.
Architect ...None.
Contractor..J. S. Purcell, 856 Presidio Ave., San Francisco.
Filed May 23, '16. Dated May 22, '16.
Frame up $800
Brown coated 800
Completed and accepted..... 800
Usual 35 days..... 825
TOTAL COST, $3225
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1629) NO. 570 PENNSYLVANIA. One story and basement frame dwlg.
Owner.....Peter Burke, Premises.
Architect ...None.
Contractor..P. J. Kelly, 658 Elizabeth, San Francisco.
COST, $700

FRAME RESIDENCE
(1630) NW TWELFTH AVE AND CABRILLO. Two-story and basement frame residence.
Owner.....Mrs. William Koenig, 1108 Cabrillo, San Francisco.
Architect ...Koenig & Christiansen, 914 Humboldt Bank Bldg., S. F.
Day's work. COST, $4000

FRAME DWELLING
(1631) E TWENTY-EIGHTH AVE 115 S Lincoln Way. Two-story and basement frame dwelling.
Architect .. None.
Owner.....F. Nelson, 2701 Lincoln Way, San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME DWELLING
(1632) NO. 2583 THIRTY-FIRST AVE. (rear). Two-story frame dwelling.
Owner..... Mrs. Clara Alsing, Premises
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(1633) W SCOTT 22 S Pine. Concrete foundation, undrepin, etc.
Owner.....F. J. Mershin, 312 Divisadero, San Francisco.
Architect ...None.
Contractor..Edw. Zinkand & Sons, 434 10th Ave., San Francisco.
COST, $500

MOVE BUILDING
(1634) NOS. 14 TO 18 WOODWARD. Move building.
Owner.....Catherine Reingpach, 14 Woodward Ave., S. F.
Architect ...None.
Contractor..J. P. Nielsen, 2350 Bryant, San Francisco.
COST, $500

FRAME DWELLING
(1635) N SEARS 150 E Sickles. One-story and basement frame dwlg.
Owner.....J. Scully, 252 Sickles, S. F.
Architect .. None.
Day's work. COST, $500

FRAME DWELLING
(1636) E SECOND AVE 225 S Clement. Two-story and basement frame dwlg.
Owner.....N. J. Nelson, 517 Elizabeth, San Francisco.
Architect ...None.
Day's work. COST, $2800

FRAME DWELLING
(1637) E SECOND AVE 200 S Clement. Two-story and basement frame dwlg.

Owner.....N. J. Nelson, 547 Elizabeth, San Francisco.
Architect ...None.
Day's work. COST, $2800

CLASS "A" BUILDING
(1637) W FOLSOM 198 S 17th W 122-6 S 150. Excavating, pumping, bulkheading, concrete, cement, fire proofing, structural steel, iron work, etc., for two-story Class "A" reinforced concrete building.
Owner.....Jean Allec, 2148 Folsom, San Francisco.
Architect ...August G. Headman, Call Bldg., San Francisco.
Contractor..H. L. Petersen, 62 Post, S. F
Filed May 24, '16. Dated May 23, '16:
Excavation, pumping and concrete foundation work complete.$3006
Concrete work of columns and side walls below 1st floor poured and concrete floor of 1st floor complete 1000
2nd floor concrete slab poured and metal windows of 1st floor set.. 9000
Concrete work of skylights, stairs and pent houses poured..... 5000
Completed and accepted..... 5230
Usual 35 days..... 7745
TOTAL COST, $30,975
Bond, $15,500. Sureties, D. J. Sullivan and A. Lynch. Limit, Aug. 29, 1916. Forfeit, none. Plans and specifications filed.

LOFTS AND OFFICES
(1639) S MINNA 470 W Third W 40x S 70. Excavation, concrete work and chimneys for two-story and basement concrete loft and office building.
Owner.....Frederick Marriott Sr., 9 Sutter, San Francisco.
Architect ...A. W. Pattiani, Merchants National Bank Bldg., S. F.
Contractor..John Spargo, 240 Montgomery, San Francisco
Filed May 24, 16. Dated May 17, '16.
Concrete wall and columns erected to 1st tier joists for 1st floor....$1000
Walls and columns up to 2nd story joists 1500
Completed and accepted..... 1475
Usual 35 days..... 1325
TOTAL COST, $5300
Bond, $2650. Surety, Casualty Co. of America. Limit, 33 days. Forfeit, none. Plans and specifications filed.

GRADING, ETC.
(1640) GRADING BLK 796 bounded by 28th and 29th Aves., Kirkham and Lawton and deposit sand and earth removed therefrom on Blk 741, bded by 28th and 29th Aves., Kirkham and Judah.
Owner.....W. T. & W. E. Commary, 742 Market, San Francisco.
Architect ...None.
Contractor..J. Scott and J. B. Turner (as I. Scott).
Filed May 23, '16. Dated May 19, '16.
On 5th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $7451
Bond, $3725.50. Surety, United States Fidelity & Guaranty Co. Limit, 10 days. Forfeit, none. Specifications only filed.

FRAME DWELLING
(1641) NO. 210 SAGAMORE; Lot 25x100 All work for one and one-half-story frame dwelling.
Owner..... Giobatta Gazzano, 209 Sagamore, San Francisco.
Architect ...None.
Contractor..B. Ghiotto, 231 Delano San Francisco.
Filed May 24, 16. Dated May 16, '16.
Frame up 25%
Brown coated 25%
Completed 25%
Usual 35 days..... 25%
TOTAL COST, $1630
Bond, limit, forfeit, none. Plans and specifications filed.

FRAME COTTAGE
(1642) N PRAGUE 175 E Rolph, being Lot 15 Blk 6442 Crocker Amazon Tct Sub. No. 2. All work for five-room frame cottage.
Owner.....H. W. Morris, 1604 Jones, San Francisco.
Architect ...None.
Contractor..Alfred C. Dahl, 828 Fulton, San Francisco.
Filed May 24, '16. Dated May 20, '16.
Frame up $400
Plastering completed 600
Job completed 400
30 days after..... 400
TOTAL COST, $1800
Bond, none. Limit, 70 days. Forfeit, $3. Plans and specifications filed.

FRAME STORE AND FLATS
(1643) W POWELL 30 N Pacific N 26 xW 45. All work for three-story frame store and flats.
Owner.....Jos. Michel.
Architect ...W. H. Armitage, 328 Montgomery, San Francisco.
Contractor..Jno. Ponsero, 1244 Stockton, San Francisco.
Filed May 25, '16. Dated May 24, '16.
Rough frame up.....$1200
Brown mortar on..... 1200
Completed and accepted..... 1200
Usual 25 days..... 1200
TOTAL COST, $4800
Bond, $2400. Surety, Vincent S. Bottaro. Limit, 80 days. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(1644) S PACIFIC 25 E Leavenworth E 25xS 68-6. Alterations and additions to make three-story frame building into flats and store.
Owner.....Daniele Giannini, 1977 Union, San Francisco.
Architect ...Chas. Fantoni, 916 Kearny, San Francisco.
Contractor..Vincenzo Filippis, 25 Columbus Ave., S. F.
Filed May 25, '16. Dated May 9, '16.
Building roofed $600
Brown coated 600
Completed and accepted..... 600
Usual 35 days..... 600
TOTAL COST, $2400
Bond, $1200. Sureties, S. Giampollini & N. Capurro. Limit, 75 days. Forfeit, $3. Plans and specifications filed.

PAINTING HOTEL
(1645) NO. 1 LELAND AVE. All work for painting Bay Shore Totel.
Owner.....Richard Webb, dec'd, by Adminstratrix Mary E. Webb, Jackson, Amador Co. California.
Architect ...None.
Contractor..William Gerke, 163 Vassalboro, San Francisco.
Filed May 25, '16. Dated May 22, '16.
June 3rd $75
June 8th 75
On completion .....Balance
TOTAL COST, $380
Bond, $380. Sureties, Chas. J. Louis and H. N. Nutter. Limit, June 20, 1916 Forfeit, none. Plans and specifications, none.

FRAME COTTAGE
(1646) LOT 6 BLK "B" Mission Terrace. All work for one-story and basement 4-rooms and bath frame cottage and garage.
Owner.....John E. McCarthy, 1340 13th Ave., San Francisco.
Architect ...None.
Contractor..John E. McCarthy.
Filed May 25, '16. Dated May 24, '16.
Frame up and enclosed.....$487.50
Brown coated 487.50
Completed and accepted..... 487.50
Usual 35 days..... 487.50
TOTAL COST, $1950.00
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ADDITION
(1647) NO. 35 HILL. Add three rooms.
Owner.....G. Fontana, Premises.
Architect ...None.
Contractor..G. & P. Carraro, 830 Felton San Francisco.
COST, $800

FRAME DWELLING
(1648) S HAVELOCK 130 W Araga. Two-story and basement frame dwlg.
Owner.....G. A. G. Ghiotto, 4534 Mission, San Francisco.
Architect ...None.
Contractor..G. A. G. Ghiotto & Bro., 4534 Mission, S. F.
COST, $1900

FRAME DWELLING
(1649) W NINTH AVE 225 N Cabrillo. Two-story and basement frame dwlg.
Owner.....A. T. Morris, 501 11th Ave., San Francisco.
Architect ...None.
Day's work. COST, $2500

FRAME FLATS
(1650) N FRANCIS 325 W Mission. Two-story and basement frame (2) flats.
Owner.....George F. Munk and wife, 58 Francis, S. F.
Architect ...None.
Contractor..F. Munk, 58 Francis, San Francisco.
COST, $3500

ALTERATIONS
(1651) NO. 734 BUSH. Enlarge dumb waiter.
Owner.....Mrs. Helen McCrum, 795 Sutter, San Francisco.
Architect ...None.
Day's work. COST, $860

FRAME DWELLING
(1652) E SAN GABRIEL 125-5¾ S Capistrano. One-story and basement frame dwelling.
Owner.....John E. McCarthy, 1340 13th Ave., San Francisco.
Architect ...None.
Day's work. COST, $1950

ALTERATIONS
(1653) NO. 1342 ALABAMA. Alter store.
Owner.....Frank E. Kummer, Prem.
Architect ...None.
Contractor..J. H. Baker, 335 22nd Ave., San Francisco.
COST, $600

ALTERATIONS
(1654) NO. 759 COLE. Alter dwelling.
Owner.....A. F. Bell, 220 Ashbury, San Francisco.
Architect ...None.

ntractor..B. McDonald, 1246 6th Ave., San Francisco.
COST, $675

ASS "C" HOTEL
55) SW POST AND POLK S 60xW 5. Excavation, concrete, steel, carenter, mill, sheet metal, roofing, ath, plaster hardware, glazing, electric, marble, tile work and painting or three-story Class "C" reinforced oncrete hotel.
wner.....Antoine and Alexandre Vayssie, 314 Kearny, S. F.
chitect...Fabre & Bearwald, 625 Monadnock Bldg., S. F.
ntractor..John E. Beck, 435 Cabrillo San Francisco.
ed May 26, '16. Dated May 18, '16.
Walls are poured and sheathing
on roof $3900
Brown coated 3900
Completed and accepted..... 3900
Usual 35 days..... 3909
TOTAL COST, $15,609
nd, $7805. Sureties, Jno. Flaherty d Elmer Carlson. Limit, 120 days. rfeit, $10. Plans and specifications ed.

656) TRENCHING, SEWERING, GAS fitting, plumbing fixtures, plumbing and heating on above.
ntractor..J. M. Lettich, 180 Jessie, San Francisco.
led May 26, '16. Dated May 18, '16.
Roughing in for heating and plumbing done $1400
Completed and accepted..... 1375
Usual 35 days..... 925
TOTAL COST, $3700
nd, none. Limit, as required. Forit, $10. Plans and specifications ed.

LASS "C" APARTMENTS
657) W LARKIN 30 S Post S 40xW 95. Electrical work for five-story Class "C" apartments.
vner.....Savings Union Bank & Trust Co., Grant Ave and Geary, San Francisco.
chitect...Wood & Simpson, 110 Sutter, San Francisco.
ntractor..Central Elec. Co., 173 Jessie, San Francisco.
led May 26, '16. Dated May 26, '16.
Semi-monthly installments of.. 75%
36 days after.....Balance
TOTAL COST, $999
nd, $499.50. Surety, Guardian Casuty Co. Limit, 60 days after notice. orfeit, $50. Plans and specifications led.

658) BRICK WORK ON ABOVE.
ontractor..A. P. Brady, 822 Clayton, San Francisco.
iled May 26, '16. Dated May 25, '16.
Payments same as above.....
TOTAL COST, $3500
ond, $2750. Surety, The Aetna Accident & Liability Co. Limit, 60 days fter notification. Forfeit, $50. Plans nd specifications filed.

659) PLUMBING ON ABOVE.
ontractor..Frederick W. Snook Co., 596 Clay, San Francisco.
iled May 26, '16. Dated May 25, '16.
Payments same as above.....
TOTAL COST, $2975
Bond, $1480.50. Surety, U. S. Fidelity & Guaranty Co. Limit, 40 days after notification. Forfeit, none. Plans and specifications filed.

(1660) HEATING SYSTEM ON ABOVE
Contactor..Mangrum & Otter, 561 Mission, San Francisco.
Filed May 26, '16. Dated May 24, '16.
Payments same as above.....
TOTAL COST, $1390
Bond, $695. Surety, National Surety Co. Limit, 40 days after notification. Forfeit, $50. Plans and specifications filed.

LEASES.

May 26, 1916—SE MISSION 150 SW 7th SW 25xSE 85. T J, J F and Mary E W E and Annie L O'Connor to A Galet. 6 years. $90 per month.
May 2,6 1916—PTN FLANNERY BLDG. Gore Geary, Market and Kearny. H P Flannery to Naftaly Mosk. 3 years. $6660.
May 22, 1916—SE TWENTY-FOURTH and Noe. A C Armbrust to W F Worthington. 5 years. $6 per month with option to renew.

NOTICE OF NON-RESPONSIBILITY.

May 26, 1916—NW MARKET 40 NE O'Farrell NE 193-4¾ m or 1 NW 53 m or 1 N 96 m or 1 W 98-6 S 78 m or 1 SW 38 m or 1 E 11 m or 1 S 33-4⅝ m or 1 SW 56-11⅝ m or 1 SE 99-2¾ m or 1. Bankers Investment Co as to improvements on leased property .....

COMPLETION NOTICES.

San Francisco

RECORDED ACCEPTED

May 11, 1916—S BUSH 59 E Van Ness Ave 25x31. F W Noltemeier to Wm Martin.....May 10, 1916
May 11, 1916—S GEARY 83-6 E Leavenworth E 27xS 83-6. W L Heise to Schroeder Bros..May 1, 1916
May 11, 1916—W TWENTY-FIFTH Ave 300 S Geary S 25xW 100. H P Otten to whom it may concern. .....May 10, 1916
May 12, 1916—NW TWELFTH AND Folsom 43x75. B G McDougall (as agent Arthur Arlett) to whom it may concern .....May 6, 1916
May 12, 1916—E LYON 82-6 N Post N 55xE 110. Mrs Georgiana Shea to E A Reynolds.....May 12, 1916
May 12, 1916—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern.May 6, 1916
May 12, 191..—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern..May 9, 1916
May 12, 1916—SW SEVENTH 175 — Harrison — 125 SW 85 NW 25 NE 5 NW 75 SW 80 NW 25 NE 160. Workman Packing Co to Kiernan & O'Brien.....May 11, 1916
May 12, 1916—E TWENTY-FOURTH Ave 100 N Anza N 25xE 120. Frank E Ruggles to W Davies..May 12, 1916
May 12, 1916—W THIRTY-THIRD AV 100 N Balboa (B) 25x120. W F Nilsson to whom it may concern .....May 12, 1916
May 13, 1916—NW MASON AND Sutter W 45xN 137-6. Chas Schlessinger to O C Holt.....May —, 1916
May 15, 1916—NW CALIFORNIA & Van Ness Ave W 159-4xN 69-3. Pope Estate Co to Geo A Bos..... .....May 10, 1916
May 15, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to F W Snook Co.. .....May 10, 1916
May 15, 1916—NE TWENTY-FIRST Ave 225 S California S 50xE 120. H C Keenan to whom it may concern .....April 10, 1916
May 15, 1916—LOT 16 BLK 6521 Treat Ave., bet. 24th and 25th; W Treat Ave 125 N 25th N 25xW 112-6. Walter Phillips to whom it may concern.....May 10, 1916
May 15, 1916—E SEVENTH AVE 100 N Geary N 25xE 120. Jos C Kirby to whom it may concern.May 15, 1916
May 15, 1916—S GREEN 132-6 E Baker 25x137.6. Susanne G McEwen to McKenzie & Prough..May 8, 1916
May 16, 1916—S POST 63-6 W Buchanan W 24xS 87-6. Tillie and I Weinstein to Bay City Bldg Co.. .....May 13, 1916
May 16, 1916—W VERMONT 175 S 25th S 25xW 100. Richard A Downing to whom it may concern..... .....May 16, 1916
May 16, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. A Chazel to G Cavaglieri.....May 10, 1916
May 16, 1916—SW QUESADA AVE 290-7½ SE from above — 28x100. Emilio E Ambrosetti to Frank Rossi. .....May 11, 1916
May 17, 1916—W MISSION 138-6 N 17th N 25xW 100. James C Sellers to D W Ross & Co.....May 9, 1916
May 18, 1916—S EDDY 137-6 W Jones — 25 S 77-6 E 25 N 77-6. Alvin C and Estelle R Selig to Monson Bros.....May 15, 1916
May 19, 1916—E TWELFTH AVE 225 S Cabrillo. H C Christiansen to H C Christiansen.....May 19, 1916
May 19, 1916—COMG. 108 S CASSELLI Ave and 314-8 W Douglass 25x95-2⅛. H E and T W MacArthur to whom it may concern..May 18, 1916
May 19, 1916—SW BROADWAY & Jones 22-9x60. Edward J Duffey to J S Malloch.....May 18, 1916
May 20, 1916—N BROADWAY 206-6 W Jones W 23xN 60. Alice E J Harrigan to J H Baker May 19, 1916
May 20, 1916—W PALM AVE 180 N Euclid Ave N 80x120. Thos Scoble to whom it may concern.May 19, 1916
May 20, 1916—NE GEARY AND 19th Ave E 52-6x75. Thos. Scoble to whom it may concern.May 19, 1916
May 20, 1916—NE CALIFORNIA & Webb E 62-3xN 137-6. Edwin A Wasserman to Petersen-James Co .....May 10, 1916
May 20, 1916—NW VALLEJO AND Van Ness Ave N 30xW 95. O'Brien & Kiernan Realty Co to Kiernan & O'Brien, Inc.....May 19, 1916
May 22, 1916—E DIVISADERO 110 S Geary S 52-6xE 100. Anixter & Sons to The Central Iron Works .....May 12, 1916
May 22, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6 m or 1. Pacific Gas & Electric Co to Scott Company.....May 15, 1916
May 22, 1916—W TWENTY-FOURTH Ave 165-4 N Balboa N 150xW 120. Thomas Hamill to whom it may concern.....May 22, 1916
May 22, 1916—NE THIRTIETH AVE and Clement N 25xE 75. Thomas Hamill to whom it may concern.. .....May 22, 1916
May 22, 1916—E TWENTIETH AVE 25 S California S 75xE 95. Edw Ginley to whom it may concern... .....May 20, 1916
May 22, 1916—N POST 159-9 W Van Ness Ave W 87-6xN 120. The Hecht Invst Co to The Central Iron Wks. .....May 18, 1916
May 22, 1916—W FORTY-THIRD AV

85 N Fulton N 50xE 120. Emil Nelson to whom it moy concern..... ..... May 19, 1916

May 23, 1916—N CALIFORNIA 30 E Leidesdorff E 30 m or l to a point which is dist 132-6 W Sansome N 124 W 30 m or l to a pt which is dist 30 E Leidesdorff S 124. San Francisco Investment Co. Cpn to Monson Bros.....May 23, 1916

May 23, 1916—N O'FARRELL 150 E Hyde E 50xN 90. Herman D Hogrefe to whom it may concern..... .....May 22, 1916

May 23, 1916—E ARLINGTON 112 S Miguel 25x147. Fred H Detjen to whom it may concern..May 18, 1916

May 23, 1916—W MISSION 244-4¼ N 22nd N 29-11 th at angle 86 deg 23 inches W 160-3 N Parallel with Mission 0-6 th at angle 86 deg 44 inches W 90-3 to Bartlett S along E Bartlett 116-4 th at angle 86 deg 10 inches E 124 m or l th at angle 90 deg E 4-6 th at angle 90 deg N 17 th at angle 90 deg E 127-5 being ptn Blk 65, Mission & Horner Addn. Kiel Estate Co to Stockholm & Allyn.....May 13, 1916

May 23, 1916—E CAPP 169 S 24th 24 x100. A Cipowski to Wm H Grahn .....May 20, 1916

May 24, 1916—N SUTTER 82-6 W Polk 27-6x120. O W Britt to Whitney & Davies.....May 23, 1916

May 24, 1916—E SEVENTH AVE 200 S Kirkham S 85xE 120. A J Raisch to Cox Bros.....May 22, 1916

May 24, 1916—W HYDE 114-6 N McAllister N 23xW 70. Pacific Gas & Electric Co to Brandon & Lawson .....May 22, 1916

May 25, 1916—W MISSION 160 S 22nd — 125 S 40 E 125 N 40. Marion Leventritt to B C Van Emon..... .....May 24, 1916

May 25, 1916—E SEVENTH AVE 420 N Lake N 30xE 120. W I Smith to Paul Jones.....May 23, 1916

May 25, 1916—W NINETEENTH AVE 100 N Ulloa (U) N 33.4xW 120. St. Clair V Irwin to C C Higgins & Son.....May 24, 1916

May 25, 1916—W LEAVENWORTH 56 N Vallejo 25x100. Arthur Stevens to whom it may concern.May 25, 1916

May 26, 1916—E BRODERICK 75 N Green N 35xE 55-6. Chas W Gompertz to whom it may concern..... .....May 25, 1916

May 26, 1916—SW LAKE AND 15TH Ave S 42xW 52-6. S and Mrs S Rouda to W L Hemminga, Inc..... .....May 22, 1916

May 26, 1916—SE CLARA 175 SW Ritch SW 25xSE 80. Louisa A Dashwood to whom it may concern .....May 22, 1916

May 26, 1916—W TWENTIETH AVE 100 S Geary. Chas E Ham and John C Boddiker to whom it may concern.....May 24, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

May 13, 1916—N PAGE 165-7½ W Central Ave W 44-4½xN 137-6. Richmond Sheet Metal Works vs Carrie Green and James P Fletcher $196

May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. M Leutholdt & Co vs Carrie and D H Green and James P Fletcher....$290

May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Veyhle & Collins vs Caroline Green and James P Fletcher.....$1305.43

May 15, 1916—E FORTY-SEVENTH Ave 215 N Cabrillo N 25xE 120. Schwarz & Gottlieb vs A McBarnes $41.20

May 16, 1916—N BUSH 137-6 W Buchanan W 34-4½xN 137-6. W Knightly and R Proctor (Co-partners) vs Gertrude C Limae.....$93

May 17, 1916—W NINTH AVE 260 S California S 25xW 120. I Weinberg vs Harry Blendes and Jacob Finkelstein $250

Trevia & Pasqualitte et al..$129.90

May 19, 1916—LOT 42 BLK "F" Columbus Heights Tract. George M Wilson vs Alfred Walderman..$24.30

May 19, 1916—E GOUGH 102-6 S Broadway E 91-8xS 25. R Zelinsky vs C H and T Gruenhagen....$140.20

May 20, 1916—LOT ON LOMBARD, bded on either side by Columbus Ave and Taylor. William J Partridge vs V Rosenbaum & Co and

May 20, 1916—NW GEARY AND Commonwealth Ave W 103xN 100. William Little vs Erma A Waterman $1000

May 22, 1916—N DUNCAN 112 m or l E Noe E 25xN 114 m or l; No. 476 Duncan. The Greater City Lumber Co vs A N Roth.....$60.25

May 22, 1916—W SEVENTEENTH AV 25 S Geary S 75xW 82-6. George H Tay Co vs Jonathan Anderson..... .....$603.85

May 23, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. Weintraub & Moore vs Mrs E S Ellinwood and Henry E Routh.....$62.90

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1270	Aluminum	Schnebly	9500
1271	Lawrence	Sommarstrom	875
1272	Armstrong	Armstrong	3500
1273	Burtis	Knight	
1278	Peralta	Atkinson	2500
1279	Pizzola	Valente	2600
1280	Forsterer	Bradhoff	1600
1284	Dexter	Dexter	3000
1285	Danvute	Carello	1150
1286	Lewis	Walker	400
1287	Samuels	Corbett	450
1288	Prince	Prince	400
1289	Kierulff	Kierulff	1200
1290	Bell	Smith	800
1291	Dinnigan	Woodard	1500
1292	Brunetto	Woodard	2870
1293	Morison	Morison	1600
1294	Stone	Cederborg	9410
1295	Same	Franzee	1086
1302	England	Borle	1375
1303	Morris	Morris	1500
1304	Lanning	Kinsley	1200
1305	Lindell	Morris	1500
1306	St. Mary	St. Mary	2000
1307	Cal Steel Co.	Owner	400
1308	Grandin	Grandin	1490
1312	Mast	Mast	600
1313	Morris	Morris	1700
1314	Morris	Morris	1700

FRAME FACTORY

(1270) SE SECOND AVE AND E-11th, Oakland. One-story frame factory.

Owner.....C. P. McClure for Aluminum Products Co., La Grange, Ill.

Architect...E. W. Cannon, Central Bk. Bldg., Oakland.

Contractor..Schnebly, Hostrawser & Pedgrift, 6th & Jackson, Oakland.

COST, $9500

WAREHOUSE

(1271) N FIFTH 43 W Magnolia, Oakland. One-story warehouse.

Owner.....Lawrence Warehouse Co., 11th and Franklin, Okd.

Architect...None.

Contractor..Sommarstrom Bros., 202 E-12th, Oakland.

COST, $875.

DWELLING

(1272) N MANDANA BLVD. 500 E Paloma, Oakland. One and one-half-story 6-room dwelling.

Owner.....G. Armstrong, 1639 Alcatraz Ave., Berkeley.

Architect...None.

Day's work. COST, $3500

DWELLING

(1273) LOT 16 BLK 2093 Map Alden Tract, Oakland. All work for one-story 3-room dwelling.

Owner.....Mrs. Maud E. Burtis, Okd.

Architect...Chester H. Miller, 1st Savings Bank Bldg., Okd.

Contractor..Harry C. Knight.

Filed May 20, '16. Dated May 1, '16.

Ceiling joists in place.....$50

Brown coated 50

Completed and accepted.....Balance

TOTAL COST, 10% of Cost

Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS

(1278) NW THIRTEENTH & JACKSON, Oakland. Alterations to five-story reinforced concrete apartments

Owner.....Peralta Apartments Co.

Architect...None.

Contractor..H. T. Atkinson, 2d & Webster, Oakland.

COST, $2500

ALTERATIONS

(1279) SW FORTY-SEVENTH AND Telegraph Ave., Oakland. Alter stores into post office.

Owner.....L. Pizzola, 4609 Telegraph Ave., Oakland.

Architect...None.

Contractor..M. E. Valente, 5882 Vallejo, Oakland.

COST, $2600

ALTERATIONS

(1280) NO. 890 WALKER AVE., Oakland. Alterations.

Owner.....B. A. Forsterer, Premises.

Architect...None.

Contractor..C. O. Bradhoff, 911 55th, Oakland.

COST, $1600

FRAME DWELLING

(1284) FAIRVIEW AVE opp. Jerome, Piedmont. Two-story frame dwelling.

Owner.....A. R. Dexter, 2212 Grove, Oakland.

Architect...None.

Days work. COST, $3000

DWELLING

(1285) E DESMOND 200 N 49th, Oakland. One-story 6-room dwelling.

Owner.....D. Danvute, 501 Brush, Oakland.

Architect...None.

Contractor..P. Carello, 311 51st, Okd.

COST, $1150

ALTERATIONS

(1286) NO. 817 WASHINGTON, Oakland. Alterations.

Owner.....Lewis Market, Inc., Prem.

Architect...None.

Contractor..T. G. Walker, 566 4th, Okd.

COST, $400

ALTERATIONS
(1287) W BROADWAY 25 S 12th, Oakland. Alterations.
Owner.....Samuels & Co., Premises.
Architect...None.
Contractor..Corbett & Bayliss, 11th & Franklin, Oakland.
COST, $450

ADDITION
(1288) E-ELEVENTH AND TWENTY-ninth Ave., Oakland. Addition.
Owner.....H. G. Prince, Premises.
Architect...None.
Day's work. COST, $400

ALTERATIONS
(1289) NO. 237 MOSS, Oakland. Alterations.
Owner.....Chas. A. Kierulff, 2605 Fulton, Berkeley.
Architect...None.
Day's work. COST, $1200

ALTERATIONS
(1290) NO. 3412 THIRTY-FIFTH AVE., Oakland. Alterations.
Owner.....F. Bell, San Francisco.
Architect...None.
Contractor..C. M. Smith, 3406 35th Ave., Oakland.
COST, $800

DWELLING
(1291) S FORTIETH 475 E Grove, Oakland. One-story 5-room dwlg.
Owner.....W. F. Dinnigan, Oakland.
Architect...None.
Contractor..E. W. Woodard, 4031 Brighton Ave., Oakland.
COST, $1500

DWELLING
(1292) NW TWELFTH AVE AND E-23rd, Oakland. One-story 7-room dwelling.
Owner.....S. Brunetto, Oakland.
Architect...None.
Contractor..E. W. Woodard, 4031 Brighton Ave., Oakland.
COST, $2870

DWELLING
(1293) S LAVERNE AVE 247 W 55th Ave., Oakland. One-story 5-room dwelling.
Owner.....E. H. Morison, 5423 Grove, Oakland.
Architect...None.
Day's work. COST, $1600

FRAME APARTMENTS
(1294) E BENVENUE 200 from S line Woolsey S 50xE 140, Oakland. All work except heating, finish hardware and electric fixtures for two-story frame apartments.
Owner.....Chas. A. Stone, Oakland.
Architect...Will G. Corlett, Oakland
Bank of Savings Bldg., Okd
Contractor..Cederborg & Anderson, 1033 Poplar, Oakland.
Filed May 23, '16. Dated May 23, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $9410
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

(1295) HEATING ON ABOVE.
Contractor..L. D. Frazee, 699 36th, Oakland.
Filed May 23, '16. Dated May 23, '16.
Rough piping, tanks and boilers in place ..... ½
Usual 35 days..... ½
TOTAL COST, $1086
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(1296) W HARRIET AVE 270 N Carleton, Oakland. One-story three-room dwelling.
Owner.....Marie Simonich, 1159 Stanford Ave., Oakland.
Architect...None.
Day's work. COST, $500

DWELLING
(1299) S E-THIRTY-FOURTH 100 E 12th Ave., Oakland. One-story 5-room dwelling.
Owner.....T. J. McCabe, 5636 Broadway, Oakland.
Architect...None.
Contractor..Chambers & O'Keefe, Plaza Bldg., Oakland.
COST, $2500

DWELLING
(1300) S FIFTIETH 200 E Shafter Ave Oakland. One-story 5-room dwelling.
Owner.....S. Richmond, Y. M. C. A. Bldg., Oakland.
Architect...None.
Contractor..Harry Ahnefeld, 3005 King Berkeley.
COST, $2200

DWELLING
(1301) S FIFTIETH 165 E Shafter Ave Oakland. One-story 5-room dwelling.
Owner.....S. Richmond, Y. M. C. A. Bldg., San Francisco.
Architect...None.
COST, $2200

DWELLING
(1302) W TALBOT 100 S Garfield, Albany. One-story 5-room dwelling.
Owner.....Mary M. England, SE 10th and Cypress, Oakland.
Architect...None.
Contractor..C. A. Borle, 2117 Buena Vista Ave., Albany.
COST, $1375

DWELLING
(1303) E POMONA 200 N Marin, Albany. One-story 5-room dwelling.
Owner.....Annie D. Morris, 914 Kains Ave., Albany.
Architect...None.
Contractor..A. R. Morris, 914 Kains Ave., Albany.
COST, $1500

(1304) E KAINS AVE 225 N Garfield, Albany. One-story 3-room dwlg.
Owner.....Mrs. L. L. Lanning, 988 56th, Oakland.
Architect...None.
Contractor..R. H. Kinsley, 5455 Wadean Place, Albany.
COST, $1200

DWELLING
(1305) E POMONA 230 S Marin, Albany. One-story 5-room dwelling.
Owner.....A. W. Lindell, Albany.
Architect...None.
Contractor..A. R. Morris, 914 Kains Ave., Albany.
COST, $1500

DWELLING
(1306) E AUSEON AVE 100 N Blanch, Oakland. One-story 6-room dwlg.
Owner.....Joe St. Mary, 9257 E-14th, Oakland.
Architect...None.
Day's work. COST, $2000

CRANE WAY
(1307) SECOND & HARRISON, Oakland. Crane way.
Owner.....California Steel Co., Prem.
Architect...None.
Day's work COST, $400

DWELLING
(1308) S AILEEN 100 W Adeline, Oakland. One-story 4-room dwelling.
Owner.....Ed. Grandin, 1533 Prince, Berkeley.
Architect...None.
Day's work. COST, $1490

DWELLING
(1312) NO. 1735 SIXTH AVE., Oakland. One-story 4-room dwelling.
Owner.....Alta E. Mast, Premises.
Architect...None.
Day's work. COST, $600

DWELLING
(1313) W HIGH 250 S Santa Rita, Oakland. One-story 5-room dwelling.
Owner.....Annie D. Morris, 914 Kains Ave., Albany.
Architect...None.
Contractor..R. Morris, 914 Kains Ave., Albany.
COST, $1700

DWELLING
(1314) W HIGH 240 S Santa Rita, Oakland. One-story 5room dwelling.
Owner.....Annie D. Morris, 914 Kains, Ave., Albany.
Architect...None.
Contractor, R. Morris, 914 Kains Ave., Albany.
COST, $1700

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1274	Goldman	Nelson	3845
1275	1st Svgs Bk	Schnebly	500
1276	Graham	Graham	17500
1277	Muller	Larner	2000
1281	Mason	Scott	400
1282	Pfrang	Pfrang	2250
1296	Simonich	Simonich	500
1299	McCabe	Chambers	2500
1300	Richmond	Ahnefeld	2200
1301	Same	Same	2200
1309	Smith	Smith	900
1310	Bither	Reichel	3000
1311	R C Archb	Doell	1604
1315	Lindquist	Lindquist	1200
1316	Howard	Williams	1160
1317	Shields	Kollmer	900
1318	Landucci	King	1800

FRAME DWELLING
(1274) LOT 22 BLK 2 Grandview Terrace, Berkeley. All work except heating for two-story 6-room and basement frame dwelling.
Owner.....S. Goldman & C. W. Pugh.
Architect...John Hudson Thomas, 1st National Bank Bldg., Bkly
Contractor..H. P. Nelson, 2241 Grove, Berkeley.
Filed May 19, 16. Dated May 19, '16.
Frame up ..... ¼
Brown coated ..... ¼
Accepted ..... ¼
Usual 35 days..... ¼
TOTAL COST, $3845
Bond, $1922.50. Sureties, Laura B. Nelson and William Nelson. Limit, 80 days. Forfeit, none. Plans and specifications filed.

REPAIRS
(1275) SW RUSSELL & PIEDMONT Ave., Berkeley. Repairs and alterations.

Owner.....1st Trust & Savings Bank, 16th and San Pablo, Okd.
Architect...None.
Contractor..Schnebly, Hostrawser & Pedgrift, 6th & Jackson, Oakland.
COST, $500

APARTMENTS
(1276) NE CHANNING WAY —E College Ave., Berkeley. Three-story 34-room apartments.
Owner.....Virginia and C. Louise Graham, 2208 Stuart, Bkly.
Architect...L. F. Hyde, 2745 26th Ave., Oakland.
Contractor..I. M. Graham, 2208 Stuart, Berkeley.
COST, $17,500

DWELLING
(1277) S DERBY 120 E Ellsworth, Berkeley. One-story 5-room dwlg.
Owner.....F. A. Muller, Berkeley.
Architect...None.
Contractor..Edw. Larmer, 470 Boulevard Way, Oakland.
COST, $2000

ADDITION
(1281) NO. 2205 WARD, Berkeley. Addition.
Owner.....H. P. Mason, 2001 Ward, Berkeley.
Architect...None.
Contractor..John T. Scott, 2800 Fulton, Berkeley.
COST, $400

DWELLING
(1282) E ELLSWORTH 100 S Ward, Berkeley. One-story 5-room dwlg.
Owner.....C. J. Pfrang, 5487 Claremont Ave., Oakland.
Architect...None.
Day's work. COST, $2250

ADDITION
(1309) NOS. 2213-15 WARD, Berkeley Addition
Owner.....Minnie A. Smith, 2217 Ward Berkeley.
Architect...None.
Contractor..C. O. Smith, 2217 Ward, Berkeley.
COST, $900

DWELLING
(1310) W MILVIA 40 S Berryman, Berkeley. Two-story 7-room dwelling.
Owner.....Hall Bither, Cor. Rose and Josephine, Berkeley.
Architect...None.
Contractor..Paul R. Reichel, 1626 Josephine, Berkeley.
COST, $3000

PLUMBING, ETC.
(1311) SW RIDGE ROAD AND LA Loma Ave., Berkeley. Plumbing, two distillate Rotary oil burners, 1500-gallon storage tank, hot water heating apparatus in Newman Hall and Rectory.
Owner.....The Romana Catholic Archbishop of S. F., 110 Franklin, San Francisco.
Architect...None.
Contractor..Carl T. Doell, 467 21st, Oakland.
Filed May 25, '16. Dated Apr. 13, '16.
Accepted ..... ½
Usual 35 days..... ½
TOTAL COST, $1604
Bonds, $1620; $1620; $1620. Sureties, George A. Comper and G. H. Scott. Limit, July 1. Forfeit, none. Plans and specifications filed.

DWELLING
(1315) N CHANNING WAY 50 W Roosevelt, Berkeley. One-story 6-room dwelling.
Owner.....John Lindquist, 1709 Channing Way, Berkeley.
Architect...None.
Day's work. COST, $1200

DWELLING
(1316) E GLEN AVE 200 N Eunice, Berkeley. One-story 4-room dwelling.
Owner.....Mrs. Howard, 1118 Laurel, Berkeley.
Architect...None.
Contractor..Walter Williams, 666 63rd, Oakland.
COST, $1160

DWELLING
(1317) NO. 2838 DERBY, Berkeley. One-story 3-room dwelling.
Owner.....Mrs. Shields, Premises.
Architect...None.
Contractor..Jacob Kollmer, 2818 Stuart Berkeley.
COST, $900

DWELLING
(1318) N BLACKSTONE 115 E Baker, Berkeley. One-story 5 room dwelling.
Owner.....O. Landucci, 1415 Blackstone, Berkeley.
Architect...None.
Contractor..E. King, 1412 Blackstone, Berkeley.
COST, $1800

Building Contracts Awarded

Alameda

No.	Owner	Contractor	Amt.
1283	Griffin	Kneppler	1770
1297	Zugg	Clark	400
1298	Griffin	Kneppler	2000

FRAME DWELLING
(1283) SE PACIFIC AVE AND EIGHTH E 38-7¾xS 115, Alameda. All work for one and one-half-story 6-room frame dwelling. z
Owner.....Nettie Griffin, Alameda.
Architect...None.
Contractor..Robert W. Kneppler, 606 Haight Ave., Alameda.
Filed May 22, '16. Dated May 19, '16.
Acceptance by owner of releases in full for following:
Lumber, $460; cement walls, $15; nails, $20; sash and doors, $94.50; mantel, $20; labor, not to exceed $350; brick work, $90; sink, $10; plaster, $155; fixtures, $40; shades, $12 wiring, $35; plumbing, $175; painting, $100; sewer, $40; hardware, $30.
TOTAL COST, $1770
Bond, none. Limit, 70 days after May 22. Forfeit, plans and specifications, none.

(1297) NO. 1421 PARK, Alameda. Alterations.
Owner.....Wm. Zugg, Premises.
Architect...None.
Contractor..R. P. Clark, 2214½ Santa Clara Ave., Alameda.
COST, $400

DWELLING
(1298) SE PACIFIC AVE & EIGHTH, Alameda. One and one-half-story 6-room dwelling.
Owner.....Mrs. N. Griffin, 811 Buena Vista Ave., Alameda.
Architect...None.
Contractor..R. W. Kneppler, 606 Haight Ave., Alameda.
COST, $2000

NOTICES OF NON-RESPONSIBILITY.

May 20, 1916—SEC 1 TP 4 S Range 3 E Mt. Diablo Base and Meridian. Katherine Dillon Winship as to improvements on leased property..
May 20, 1916—SE 35 TP 3 S Range 3 E Mt. Diabla Base & Meridian. Katherine Dillon Winship as to improvements on leased property...
May 20, 1916—S ½ OF S ½ OF N ½ Sec 31 Tp 3 S Range 4 E Mt. Diablo Base and Meridian. Katherine Dillon Winship as to improvements on leased property .....
May 23, 1916—ROBERTS LANDING Road near Town of San Lorenzo and adjoining land leased to Michele Damele and D Giusto, being ptn Plots D, D E of Vegetable Lands, Eden Tp. George Robinson as to improvements on leased property .....

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED
May 11, 1916—LOT 57 Nova Piedmont, Piedmont. Mabel Woodard to E W Woodard.....May 10, 191
May 12, 1916—E BROADWAY 274.75 N Moss Ave, Oakland. Mary E McCarthy to A L & J E Lundy.....Feb. 29, 191
May 12, 1916--SE UNIVERSITY AVE and Grove, Bkly. W H Heywood by James W Plachek to C Texdahl.....May 9, 191
May 12, 1916—LOTS 11 AND 12 BLK "R" Revised Map Oakland Heights Alameda Co. Albert Hammarberg to whom it may concern.May 11, 191
May 12, 1916—LOTS 10, 11 AND 12 Blk "U" Leonard Tract, being No. 2845 Telegraph Ave, Bkly. Margaret O Dunn to A Cederborg and A H Anderson.....May 12, 191
May 13, 1916—LOTS 8 TO 24 INCL and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R. J. McMullen's Sbdvn Blk 576, Oakland. Pacific Coast Shredded Wheat Co to E L B Zimmer .....May 3, 191
May 15, 1916—S 20 LOT 26 and N 20 Lot 25 Map Broadway Terrace, Okd. Walter H Packard to whom it may concern.....May 11, 191
May 15, 1916—REAR NO. 5663 W Broadway, bet. Kales and Taft Ave, Okd. J F Kilpatrick to Joseph J Costodio.....May 13, 191
May 16, 1916—LOTS 6 AND 7 BLK "E" Claremont Court, Berkeley. Mrs Samuel B McLenegan to Frank M Garden & Co.....May 8, 191
May 16, 1916—LOT 24 BLK 6, Brookdale Terrace, Okd. Nannie A Brown to W C Brown.....May 15, 191
May 16, 1916—LOTS 8 TO 24 Incl and ptn 5, 6, 7 and 25 to 32 incl, R J McMullens Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Steiger Terra Cotta & Pottery Works .....May 10, 191
May 16, 1916—LOT 26 BLK 21 Map Mathews Tract, Bkly. W P Dunning by J S Hanson to whom it may concern.....May 1, 191
May 17, 1916—SW TELEGRAPH AVE and 30th, Okd. Charles H J Truman to Johnston Co.....May 15, 191
May 17, 1916—SW FARRAGUT AVE and King Ave W 150xSE 211.5, Okd. Elizabeth B Moore to Alfred Peter-

son .....May 13, 1916
May 18, 1916—LOT 95 Amended Map Alta Piedmont Tract and Alta Heights, Piedmont. R E Stubbe to whom it may concern.May 18, 1916
May 18, 1916—LOTS 8 TO 24 incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R J McMullen's Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Detroit Steel Products Co.. .....May 10, 1916
May 18, 1916—BRYANT ST., Oakland. Eunice C Wiser to Gordon J Wiser .....May 18, 1916
May 18, 1916—LOT 17 BLK 8 Rockridge Terrace, Okd. J C O'Connor to whom it may concern.May 17, 1916
May 20, 1916—N FIFTIETH 210 SE Lawton Ave SE 35 NE 87.35 NW 35.025 SW 88.67, Okd. Ann and L C Joslin to A Hammerberg...Apr. 23, '16
May 20, 1916—OAKLAND PIER, Oakland. Southern Pacific Co to B S Harris ....May 10, 1916
May 22, 1916—LOTS 6, 7 AND 8 BLK 5 Map Hotel Claremont Tract, Berkeley. G H Atkins to W D Henderson.....May 22, 1916
May 22, 1916—LOT 14 BLK 4 Map Brookdale Terrace Tract, Oakland. Mary A Owen to J H Martin and C M Urch.....May 20, 1916
May 22, 1916—NE 13½ LOT 27 and SW 25 Lot 28 Blk 21 Map Key Route Heights, Okd. S A Isakson to whom it may concern.....May 15, 1916
May 22, 1916—LOT 11 and NE ½ Lot 12 Blk 21 Map Key Route Heights, Okd. W R Lippincott to whom it may concern.....May 12, 1916
May 22, 1916—S CALMAR AVE 217 W Paloma Ave 50x151, being Lot 30 Blk "D" East Piedmont Heights, Okd. Annie Depaoli to Norio Cavaglia .....May 17, 1916
May 22, 1916—IDORA PARK. Idora Park Co to P A Palmer..Apr. 16, 1916
May 22, 1916—S SIXTY-FIFTH 240 W Shattuck Ave 40xS 120, Oakland. Matthew Klein to whom it may concern.....April 1, 1916
May 23, 1916—PTN LOT 1 BLK "K" Map Central Piedmont Tract, Piedmont. W P Sugg to Sugg Bros Realty Co.....May 22, 1916
May 22, 1916—W 35 LOT 9 BLK 3 Map Landregan Tract, Oakland Tp. Edward Plechot to Oliver Legault .....May 13, 1916
May 23, 1916—NE DWIGHT WAY & Prospect N 100 E 100 S 105 W 100.3 Bkly. Horace Gusbee Co by R E Easton, Sec to Van Sant-Houghton Co (two acceptances)..May 23, 1916
May 24, 1916—S 20 LOT 130 N 15 Lot 128, Terminal Junction Tract, Albany. I Ariel Kellogg to whom it may concern.....May, 24, 1916
May 24, 1916—S 25 LOT 132 and N 10 Lot 130 Terminal Junction Tct., Albany. I Ariel Kellogg to whom it may concern.....May 24, 1916
May 24, 1916—LOT 14 and N ½ Lot 13 Blk "E" Belle Vista Park. Marie M Greif by Benj M Mederer to A L Haley.....May 16, 1916
May 24, 1916—NE NINETY-SIXTH & Cherry 3 x100, Okd. George Ferguson to E E Wells....May 18, 1916
May 25, 1916—NW SEMINARY AVE 204.23 SW Trask SW 135.36xNW 121.80, Okd. A Miles Taylor to whom it may concern.....May 22, 1916
May 26, 1916—S 20 LOT 3 and N 35 Lot 20 Map Dell C Woodward Sbdvn Pagoda Hill, Oakland Tp. Elwyn Stebbins to Joseph Coward..... .....May 16, 1916
May 26, 1916 LOT 26 BLK 3 Amended Map Thousand Oaks Court, Oakland Tp. Francis S Spring to H H Schuessler.....April 15, 1916
May 26, 1916—LOT 37 BLK 11 Map Thousand Oaks, Oakland Tp. Francis S Spring to H H Schuessler..... .....March 20, 1916
May 26, 1916—(1) LOT 26 Map 4th Ave Terrace Ext 6; (2) Lot 7 Blk 11 Map 4th Ave Heights, Okd. Paul E Woodburn to whom it may concern.....May 26, 1916
May 26, 1916—LOT 2 Ardsley Heights, being SW E-34th, bet. Park Blvd and 13th Ave., Okd. Ida Fabing to F N Fabing.....May 25, 1916
May 26, 1916—LOT 29 BLK 3 Map Thousand Oaks, Oakland Tp Geo Friend to A H Pallen....May 1, 1916
May 26, 1916—LOT 16 BLK 9 Map Thousand Oaks, Oakland Tp Geo Friend to A H Pallen....May 1, 1916
May 26, 1916—LOT 18 BLK 43 Map Ptn Minturn Tract, Ala Gabriel Vergez to Wm Dufour..May 22, 1916

LIENS FILED

ALAMEDA COUNTY.

May 15, 1916—SW HOWARD 185.145 from NW Oakland Ave NW 40xSW 100, Piedmont. E S Thompson & Son vs H J Garcia.....$612.60
May 15, 1916—N 20 LOT 140 and S 20 Lot 142 Map Terminal Junction Tct, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50
May 17, 1916—LOT 146 and S 5 Lot 148 Map Terminal Junction Tract, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50
May 17, 1916—SE E-TWENTIETH 55 SE 55th Ave SE 52 SW 127.72, Okd. Arthur W Meyers or Myers (given both) vs J Edward Mitchell and Wm L Newby.....$97
May 17, 1916—SW SACRAMENTO & Francisco W 80xN 100, Bkly. E M Spaulding, $97; A Dobinson, $39; Swift & Wilcox, $67.95 vs E M Reagh and Henry Lehfeldt.....
May 18, 1916—LOTS 1 TO 10 and 13 to 24, incl Blk 20, Town of Woodstock, Ala. W W Montague & Co vs Frank Sobrero, Gerolama Firpo, Luigi Queirolo and Angelo Stagnara (Alamada Vegetable Gardens Co) $87.31
May 19, 1916—LOT 18 BLK 1 Brookdale Terrace(Okd. H A Liese vs Robert Davies and W H Little....$20
May 19, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. Eureka Mill & Lumber Co vs Robert Davies et al $570.30
May 19, 1916—LOT 7 and S 8½ Lot 8 Blk 14 Amended Map Sunset Terrace, Albany. Union Floor Co vs Jennie A Yori. C Bradford and O G Smith $45.75
May 20, 1916—PALM BEACH on E Encinal Ave, bet. Washington Park and Surf Beach, Ala. A R McIntyre vs Theodore Victor, Charles Blom, George Lamy and J Croll.....$54.25
May 22, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. H Peterson Co, $28.30; Charles W Walker, $75; J C Richardson, $20; Crescent Fixture Co, $42 vs Robert Davies and W H Little .....
May 22, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. W N Whitmore vs W H Little, Robert Davies and J E Settles.....$34.55
May 24, 1916—NE Walnut Ave 149.45 NW Monticello Ave NW 40xNE 101.53, Okd. Walter W Lydiksen (California Hardware Co) vs C Little and Robt Davies.....$55.57

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME BUNGALOW
LOT 15 HAWTHORNE PLACE, San Jose. All work for one-story frame bungalow.
Owner.....Jack Mieule, 156 Terraine St., San Jose.
Architect ...None.
Contractor..F. Struggbinette.
Filed May 24, '16. Dated May 24, '16.
Frame up $750
Plaster on 750
Job accepted 750
Usual 35 days..... 750
TOTAL COST, $3000
Bond, $2000. Surety, Chas. C. Navlet. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

BLEACHERS AND FENCE
LEMA PARK, San Jose. All work for bleachers and fencing.
Owner.....California Round-Up Association.
Architect ...Chas. S. McKenzie, Bank of San Jose Bldg, San Jose.
Contractor..George A. Bos, Hearst Bldg., San Francisco and James H. O'Brien.
Filed May 23, '16. Dated May 17, '16.
June 1, 1916.....$2500
June 15, 1916..... 2500
July 3, 1916.....2410
Usual 35 days..... 2470
TOTAL COST, $9880
Bond, $4940. Surety, Massachusetts Bonding & Insurance Co. Limit, June 28, 1916. Forfeit, none. Plans and specifications filed.

STORE AND OFFICE BUILDING
PALO ALTO. Brick, terra cotta, wall tile and wall tile work for store and office building.
Owner.....Ernest Wilson Co., Palo Alto, California.
Architect ...Arthur S. Heineman, San Fernando Bldg., Los Angeles.
General Contractor..Dreyfus Bros., 324 California, San Francisco.
Sub-Contractor..Jesse A. Prewett.
Filed May 18, '16. Dated May 17, '16.
At end of every second week not more than 75%
Usual 35 days..... 25%
TOTAL COST, $3288
Bond, $1644. Surety, John Dudfield Limit, 40 days after date. Forfeit none. Plans and specifications filed.

FRAME RESIDENCE
LOT 5 BLK 22 Seale Addition, Palo Alto. All work for one and one-half story frame residence.
Owner.....P. A. Ross.
Architect ...George B. Moore.
Contractor..George B. Moore, Mayfield, California.
Filed May 19, '16. Dated May 10, '16.
Frame up $875
Plaster on 875
Acceptance 875
Usual 35 days..... 875
TOTAL COST, $3500
Bond, none. Limit, 75 days after filing. Forfeit, $2 per day. Plans and specifications, none.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
May 20, 1916—LOTS 15 AND 16 Subdivision Peter Swall Tct. Edward J McCutchen to F W Fox.May 16, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
May 17, 1916—LOT 25 and ½ of Lot 26 Blk 30, Palo Alto. T Matheson vs E P Gamble $38
May 23, 1916—SANTA TERESA ST., San Jose. Richard Izor vs P Stefanini $111

BUILDING CONTRACTS.

SAN MATEO COUNTY.

APARTMENTS, ETC.
BURLINGAME AVE AND PARK ROAD Burlingame. Furnishing and installing all plumbing and sheet metal work for two-story reinforced concrete studios and apartments.
Owner.....Charles N. Kirkbride, 318 B St., San Mateo.
Architect ...Edwards & Norberg, Bank Bldg., Burlingame.
Contractor..Morrison & Blair.
Filed May 23, '16. Dated May 17, '16.
Roughed in ..... ½
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $759
Bond, $380. Sureties, A. J. Belton and H. W. Regan. Limit, 90 days. Forfeit, $2.50 per day. Plans and specifications filed.

BUNGALOW
LOT 37 BLK 26, Crocker Estate Tract, Daly City. All work for bungalow.
Owner.....Edward L. Wiggin.
Architect ...None.
Contractor..Charles G. Carlson.
Filed May 23, '16. Dated May 4, '16.
When framed $425
When plastered 425
Completed and accepted..... 425
Usual 35 days..... 425
TOTAL COST, $1700
Bond, none. Sureties, Beor Carlson and Emma Carlson. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
LOT 27 BURLINGAME HEIGHTS, Burlingame. All work except electric and gas fixtures and shades for one-story shingle roof frame dwelling.
Owner.....Emile H. Letroadec, Newland Ave., Burlingame.
Architect ...None.
Contractor..W. B. Eaton, 224 Park Road, Burlingame.
Filed May 23, '16. Dated May 23, '16.
When framed $575
Brown plastered 575
When completed 575
Usual 35 days..... 575
TOTAL COST, $2300
Bond, $1160. Sureties, H. W. Regan and F. S. Wilkinson. Limit, 90 days. Forfeit, none Plans and specifications filed.

FRAME BUNGALOWS
PTN LOT 28 BLK 6, Lots 8 and 9 Blk 6; Lots 9 and 10 Blk 6, 10 and 11 Blk 6; 7 and 8 Blk 6, Central Addition to San Mateo. All work for five one-story frame bungalows.
Owner.....Peninsular Bldg. Co., San Mateo.
Architect ...None.
Contractor..James J. Keegan and Edw. L. Croop, San Mateo.
Filed May 19, '16. Dated May 16, '16.
Buildings framed $2625
When plastered 2625
When completed 2625
Usual 35 days..... 2625
TOTAL COST, $10,500
Bond, none. Limit, 70 days. Forfeit, none. Plans and specifications filed.

STREET WORK, ETC.
OAK KNOLL MANOR, Redwood City. Grading portion of streets, etc.
Owner.....George H. Irving Co., 1st National Bank Bldg., S. F.
Architect ...None.
Contractor..J. P. Holland, 550 3rd, S. F.
Filed May 19, '16, Dated May 6, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $———
Bonds, $2300 and $2500. Surety, Fidelity & Deposit Co. of Maryland. Limit, 60 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
May 20, 1916—LOT 69 BLK 7 Map No. 2, Stanford Park, Menlo Park. Harry H Putnam to T C Rice..... .....May 15, 1916
May 20, 1916—LOT 1 BLK 33 Easton No. 2, City of Burlingame. Andrew E Brown to H H Zwick..May 15, 1916
May 19, 1916—STANFORD BLVD, Stanfard Park Menlo Park nr Palo Alto. May E Doble to H Sibley..... .....May 17, 1916
May 23, 1916—BURLINGAME, rear of present laundry. M A Gunst to F L Hansen.....May 22, 1916

BUILDING CONTRACTS

MARIN COUNTY.

GARAGE
SAUSALITO, Marin County. All work for one-story garage building.
Owner.....Frederick Schnell et al.
Architect ...T. Patterson Ross, 310 California, San Francisco.
Contractor..R. De Luca, 2256 Jones, San Francisco.
Filed May 24, '16. Dated May 23, '16.
Footings in .....$ 750
Concrete on 750
Concrete walls poured..... 750
When accepted 1200
Usual 35 days..... 1150
TOTAL COST, $4600
Bond, $2300. Surety, Massachusetts Bonding & Insurance Co. Limit, 45 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

RESIDENCE
NINTH AND PENNSYLVANIA STS., Richmond. Residence.
Owner.....G. W. Cushing, Richmond.
Architect ...Frank S. Holland, 312 Call Bldg., San Francisco.
Contractor..J. S. Hannah, 507 Williams Bldg., San Francisco.
COST, $2000

BRICK STORE AND OFFICES
MACDONALD AVE., bet. 9th and 10th Sts., Richmond. Two-story brick stores and offices.
Owner.....Drs. C. L. and U. S. Abbott, Washington and Richmond Ave., Richmond.
Architect ...B. G. McDougall, Sheldon Bldg., San Francisco.
Contractor..Mathew Morton, 1300 Alcatraz Ave., Berkeley.
COST, $13,500

BUILDING CONTRACTS

FRESNO COUNTY.

DRILLING WELL
SEC 1, 20-15, Fresno. All work for drilling well.
Owner.....Kern Trading & Oil Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..Federal Drilling Co., Call Bldg., San Francisco.
Filed May 25, '16. Dated May 19, '16.
TOTAL COST, Drilled and casing set $4.25 per foot.
Bond, $6450. Surety, National Surety Co. Limit, forfeit, none. Plans and specifications, none.

BRICK CHURCH
LOTS 18 TO 21 BLK 12, Union Add'n., Selma. All work for one-story and basement brick church building.
Owner.....First Christion Church of Selma.
Architect ...Robert H. Orr, Van Nuys Bldg., Los Angeles.
Contractor..J. M. Moore and G. C. Sinclair, Selma, Cal.
Filed May 24, '16. Dated May 15, '16.
Monthly payments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $15,459
Bond, $7729. Surety, U. S. Fidelity & Guaranty Co. Limit, July 1, 1916 to Nov. 1, 1916. Forfeit, none. Plans and specifications filed.

BRICK AND FRAME BANK
LOTS 18 AND 19 BLK "A" Eaton Add'n, Riverdale. All work for two-story brick and frame bank building.
Owner.....First National Bank of Riverdale.
Architect ...O. L. Clark.
Contractor..J. F. Brown.
Filed May 23, '16. Dated May 22, '16.
On 1st of each month..... 75%
Usual 35 days.....Balance
TOTAL COST, $8717
Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

LIENS FILED.

FRESNO COUNTY.

RECORDED AMOUNT
May 19, 1916—LOT 26 Blackstone Villa 66½x126, Fresno. M C R Nelsen, $202; Routt Lumber Co, $447.50 vs Eleazer and David Hill

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

May 19, 1916—COPPER KING MINE and part Sec. 5 13-21, Fresno. T G Hart as to improvements on leased property .....

BUILDING CONTRACTS

SACRAMENTO COUNTY.

ASS "C" APARTMENTS
00 FT. LOT 4, 1, J, 6th and 7th Sts., acramento. Excavation, masonry, tc., for three-story and basement lass "C" stores and apartments.
ner.....Florence E. Atkinson and Emma Florette Luppen.
chitect ...None.
ntractor..Louis & Victor Cereghino (Cereghino & Son), 6 Maynard St., San Francisco.
ed May 23, '16. Dated May 11, '16.
TOTAL COST, $38,636

PAIRS
. 1701 P ST., on S ½ Lots 7 and 8 P, R, 17th and 18th Sts., Sacramento. Repair roof on house.
ner.....Joseph Rosenberg et al.
chitect ...None.
ntractor..E. W. Book, 2912 G St., Sacramento.
COST, $1850

VE DWELLING
, 316 U ST., on W 28 feet of N ½ of Lot 3 U, V, 3rd and 4th Sts., Sacramento. Move one-story frame dwlg.
ner.....John Joseph.
chitect ...None.
ntractor..Mike Furtado, 1718 X St. ,(rear), Sacramento.
COST, $950

RAME DWELLING
, 4134 SACRAMENTO AVE. on Lot 3 Clover Knoll Tract, Sacramento. One story frame dwelling.
vner.....Mrs. Avel R. Gibson.
chitect ...None.
ntractor..R. J. Gibson, 4134 Sacramento Ave., Sacramento.
COST, $1500

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

NGALOW
HEROKEE LANE, near Stockton. Excavating, concrete work and all other work for five-room bungalow.
vner.....Jennie Oneto, W-Fremont St., Stockton.
rchitect ...Franklyn E. Warner, San Joaquin Bldg., Stockton.
ontractor..H. H. Hooke & Son, Stockton.
iled May 13, '16. Dated May 12, '16.
Foundation and basement completed $300
Building enclosed 600
Plastering completed 600
Completed and accepted..... 705
Usual 35 days..... 735
TOTAL COST, $2940
ond, $1500. Sureties, Chas. I. Hamilon and C. B. Pearson. Limit, 70 days. Forfeit, $10. Plans and specifications led.

LIENS FILED

SACRAMENTO COUNTY.

May 22, 1916—SE ¼ OF SEC. 4, T 6, R 7, cont'g 160 acres in Miles Whitaker & Ray Colony. C H Blake vs Alta Mesa Land & Vineyard Co... .....$172.50

J. PASQUALETTI PURCHASES A TWENTIETH CENTURY CONCRETE MIXER.

Joe Pasqualetti, who is the head of the American Concrete Co., has just purchased a new Twentieth Century Concrete Mixer from Norris K. Davis. Joe knows the concrete game thoroughly and realizes the value of having only the best in the line of a mixer.

DEPARTMENT OF COMMERCE.

Bureau of Foreign and Domestic Commerce Washington.

RAPID DEVELOPMENT OF AMERICAN PORTS.

WASHINGTON, D. C. May 27, 1916.

During the last five years the country has witnessed a remarkable development of ports. In one of the most timely and most comprehensive bulletins ever issued by the Bureau of Foreign and Domestic Commerce, Department of Commerce, this rapid development is attributed to the recent commercial growth of the country, to the building of the Panama Canal, and to the recent tendency of Congerss to require communities receiving Federal appropriations for river and harbor work to co-operate in making the improvement or to provide public terminals.

All Americans will be pleased to learn that American ports are better suited by nature to handle the largest liners than any of the old-world ports. The author of the report, Commercial Agent Grosvenor M. Jones, states that there are four American ports—New York, San Francisco, Seattle, and Tacoma—where it is possible to dock boats as large as the Aquitania and Imperator at any stage of the tide, and in Boston such boats can proceed to the wharves at high tide. In natural advantages the busiest of the European ports do not compare favorably with these and a number of other American ports.

It is interesting to note the statement that the great majority of our ports along the seaboard are actually located on rivers, some of the most important ports reached by ocean-going vessels being located far inland. Thus New Orleans is 106 miles from the Gulf of Mexico; Philadelphia 105 miles from Delaware Bay; Baltimore 151 miles from Hampton roads. Other ports located a considerable distance inland are Brunswick, which is about 13 miles from the ocean; Hartford, about 52 miles, Houston, 50 miles, Jacksonville, 27½ miles, Mobile, 30 miles; Port Arthur, Texas, about 17 miles; Portland, Oregon, 112 miles; Richmond, 104 miles; Sacramento, 111 miles; Savannah, 26 miles; Washington, 195 miles; Wilmington, Delaware, 82 miles, Wilmington, North Carolina, 30 miles.

Mr. Jones has confined his attention to those ports having a water-borne commerce amounting to 1,000,000 short tons in volume or $30,000,000 in value. It is rather surprising to find that there are 68 ports of this importance in the United States—23 on the Atlantic Coast, 8 on the Gulf of Mexico, 10 on the Pacific Coast, 2 on the Ohio River, and no less than 25 on the Great Lakes.

In recent years there has been a decided tendency toward public ownership of water-front property, due in part to a recognition of the community value of a port and, in part, to the increasing tendency of Congress to require communities receiving Federal aid in harbor and waterways improvements to maintain public terminals. Only a few ports, namely, New Orleans, San Francisso, Los Angeles, and San Diego, own the major portion of their water fronts or are in a position to acquire the bulk of it. The ports of Oakland, Sacramento, Stockton, and Washington are similarly placed. These are the only ports of the 68 studied in which the public interest is dominant. Six of these 8 ports are located on the Pacific Coast.

Although at each of the other ports the frontage owned and controlled by the State or city is less than one-half of the total available frontage, such frontage nevertheless usually represents a substantial interest. This is true of the ports of New York, Philadelphia, Boston, and Baltimore on the Atlantic Coast, and of the ports of Seattle and Tacoma on the Pacific Coast. During recent years noteworthy progress toward dominant public ownership of water-front property has been made in Baltimore, Boston, Hartford, Jacksonville, New Bedford, New London, Pensacola, Philadelphia, Providence, Portland, Ore., Seattle, Tacoma, and Tampa.

The majority of the seaboard ports mentioned in the report own public terminals, New Orleans and San Francisco leading in this respect. At both of these ports the entire water front is not only publicly owned or subject to expropriation at any time for public use, but is also largely improved by an adequate system of public terminals under immediate public control. At

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our new stock lists—free on request.

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White Brothers

Fifth & Brannan Sts. **San Francisco**

both these ports the terminals are co-ordinated by belt-line railways, also under public control. A high degree of success has attended the administration of port affairs in these cities. The city of New York owns the greater part of the most important frontage at that port and has constructed a large number of excellent piers, but has leased for long terms to private individuals practically all of these terminals. Pier rentals yield the city a handsome revenue, but the policy of leasing terminals for long periods prevents an effective public control and makes extremely difficult any effort to co-ordinate the terminal facilities of the port. The port of New York suffers severely from a lack of such co-ordination and it is interesting to note, states the report, that the city has recently appointed a commission of three engineers to study the organization of the facilities of the port with a view to their improvement and co-ordination in a comprehensive manner.

It will be news to some to learn that Boston has the most expensive as well as the largest pier in the United States, if not in the world. Commonwealth Pier No. 5 has cost upward of $4,000,000 and is 1,200 feet long and 400 feet wide. Boston will soon have another distinction—that of owning the largest dry dock in the Western hemisphere. Already work has begun on a dry dock 1,200 feet long.

The most noteworthy progress made in recent years in port development, however, has been shown by the leading ports on the Pacific Coast—San Francisco, Seattle, Los Angeles, Portland, Tacoma, and San Diego. In no section of the country has the importance of publicly owned terminal facilities been more intelligently understood and in none have so large expenditures for port improvement been made in the last five years. Cincinnati and Pittsburgh, the two Ohio River ports mentioned in the report, have long maintained public terminals and the history of these terminals makes very interesting reading. At Pittsburgh the frontage used for the public terminals was granted for that express purpose by the heirs of William Penn, while the frontage now occupied by the public levee at Cincinnati was expressly dedicated to that use in the ordinance of 1787 creating the Northwest Territory.

The report dwells at some length upon the increasing influence of the Federal Government upon port development. This is attributed to the fact that the Government contributes large sums for improving harbors, thus placing in the hands of Congress an important though indirect power. Frequently appropriations for local improvements are made subject to the performance or non-performance of certain acts on the part of the locality benefited. A marked tendency in river and harbor bills in recent years is to require localities seeking aid to contribute toward the expense, or what is more significent, to provide public terminals. In recent years the Interstate Commerce Commission has been given powers, the exercise of which may profoundly affect the development of ports in this country. Section 6 of the act to regulate commerce, as amended by the Panama Canal Act of August 24, 1912, gives the Commission power to establish "physical connection between the lines of the rail carrier and the dock of the water carrier by directing the rail carrier to make suitable connection between its line and a track or tracks which have been constructed from the dock to the limits of the right of way, or by directing either or both the rail and water carrier, individually or in connection with one another, to construct and connect with the lines of the rail carrier a spur track or tracks to the dock." The Commission has full authority to determine the terms and conditions upon which these connecting tracks shall be operated and may determine what sum shall be paid to or by either carrier.

A large number of ports in the United States have no administrative authority charged with the supervision of port affairs, and the reports state that improvements in this direction are not only possible but highly desirable. Considerable attention is given to this subject.

The new report is entitled "Ports of the United States," Miscellaneous Series No. 33, and contains 431 pages, the bulk of which are taken up with a detailed analysis of the facilities of the individual ports. There is also a summary of the results obtained through Mr. Jones' investigation, 21 maps, and 4 appendixes, one of which is the schedule used in obtaining the information upon which the report is based. A nominal price of 75 cents has been placed on the report, for which sum it may be purchased from the Superintendent of Documents, Washington, or from any of the District Offices of the Bureau of Foreign and Domestic Commerce.

PUBLIC IMPROVEMENTS PLANNED IN CHILE

New Market Building.

ANTOFAGASTA, Chile.—The board for administering the Antofagasta municipal loan has decided to proceed as soon as possible with the construction of a new market building and will soon ask for public bids for plans. The board has about $123,000 available for the purpose. The area on which the building is to be located is 100 meters (328 feet) long and 47 meters (154 feet) wide. It is proposed that provision be made in the building for the municipal laboratory.

Catalogues describing appliances and articles for use in markets should be sent to the board. There is an opportunity for architects to compete on the plans. As soon as the call for proposals is made public, a translation will be forwarded.

Increase Use of Water Meters.

A large part of the city of Antofagasta is provided with mains for the distribution of sea water for cleaning and toilet purposes. Fixed amounts have been paid monthly for the service. It has been decided to install meters, collecting from the users of this salt water according to the quantity used. In those parts of the city where the sea-water mains are newly installed, the use of meters will be obligatory, but in other parts a new schedule of rates will be put into effect on May 1, making it to the advantage of the users of sea water to install the meters.

The meters are to be supplied by the Inspection Jeneral de Agua Potable y Desagues, Santiago, and all purchases are made by that office. The officer in charge of the Antofagasta headquarters states that he also will be pleased to receive any samples sent for test purposes. His address is: Inspector del Servicio de Agua de Mar, Antofagasta.

As these meters are to be used for salt water instead of fresh they should have the necessary modifications to fit them for such use.

Effort to Improve Sanitary Conditions.

The board for administering the municipal loan of Antofagasta has recently employed an official whose duty it is to direct the improvement of the city along the lines of public sanitation. The person employed, Mr. Oscar C. Pickel, is an American who has had much experience on the Canal Zone and elsewhere in such work. Under his direction active work is being done in a campaign against rats. Several man are employed in trapping and poisoning them, beginning in the section where the last case of bubonic plague occurred. They will cover the entire city. An educational campaign against rats and flies is being carried on by newspaper advertising and printed posters.

Plans are made for two crematory ovens for garbage and improved types of garbage-collecting carts. The construction of the new market building will permit the abolition of a number of small establishments in which the conditions are not the most desirable.

Regulations recently issued with the object of improving conditions in bakeries, meat selling establishments, barber shops, etc., were so stringent that the trades affected made vigorous protests against the new ordinances, and a mass meeting to emphasize the protest was called.

SLATE VALUED AT NEARLY $5,000,000.

The total value of slate of all kinds sold in the United States in 1915 was $4,958,515, according to the United States Geological Survey. This was a decrease of 13 per cent compared with 1914. The sales of roofing slate in 1915 were 967,780 squares, valued at $3,745,934, and of mill stock 4,576,112 square feet, valued at $819,672. Blackboard material and school slates decreased nearly 31 per cent.

Several producers have reported to G. F. Loughlin, of the Geological Survey, that during the last three months of the year conditions began to improve and that early in 1916 price for slate of all kinds were more encouraging than at corresponding times for several years. At present many of the quarries can greatly increase their output to keep pace with any increase in demand.

The producing States in 1915 were the same as in 1914 and maintained the same rank. In Maryland and New York there were substantial increases in the value of the slate sold, and in Virginia a small increase; in the other States—Maine, New Jersey, Pennsylvania, and Vermont—there were decreases.

The total number of operators, which had decreased for 171 in 1913 to 157 in 1914, continued to decrease in 1915 to 118. Virginia was the only State in which the number increased—from 7

8. Of the States producing roofing ate, Maryland gained not only in uantity and value but in price per uare of slate sold; New York and irginia also gained in quantity and lue, but the price per square de-eased in each State. Pennsylvania d Vermont, which together yielded ore than 86 per cent of the total lue of roofing slate, decreased in uantity, value, and price per square. nly Maine, Pennsylvania, and Ver-ont reported sales of mill stock in 15, and in all these States both quan-ty and value decreased.

xports and Imports Affected by War. The value of slate exports, which as $226,413 in 1913 and $139,125 in 14, was only $46,137 in 1915, the low-st recorded since 1895. England, hich has heretofore been the largest ser of American slates, did not im-ort any in 1915; neither did Belgium, enmark, Germany, or the Nether-nds. The failure of the United States export a considerable amount under hese conditions indicates a world-vide decline in building operations uring 1915.

Next to the United States, Great ritain and France are the chief slate-roducing countries, and Belgium anks fourth. Other countries report-ng an output of slate are India, Ger-nany (Bavaria), and Canada. As all hese countries were directly or in-irectly involved in the European war uring 1915, both their production of late and their demand for slate oubtless greatly decreased. Canada's roduction, according to John McLeish, f the Canada Department of Mines de-reased from 1,075 squares, valued at 4,837, in 1914 to 397 squares, valued at 2,059, in 1915.

Imports of slate into the United States have for many years been in-ignificant. In 1914 and 1915 the total alues of imported slate were respec-tively $[illegible]55 and $2,768.

WASTE IN AMERICA.

Among the Belgian Royal Commis-ion that came to this country to pro-test against the alleged misconduct of their enemies was the Minister of Jus-tice, Henry Cartin de Wiart. He made some interesting comments about America, especially interesting as it was his first trip and he saw us through a fresh pair of eyes:

"On our ride from Montreal to Chi-cago, we saw hundreds of fertile land lying fallow. We saw orchards and fields with ungathered products rotting on the ground. We saw miles of young trees being destroyed by fires started by engine sparks and left to burn un-noticed. Everywhere the farms and residences were divided with wooden fences that contained enough lumber to build the homes of an empire.

"The waste in America is not con-fined to materials. Never can an Euro-pean believe the magnitude of wasted labor in America unless he visits the cities. Hundreds of thousands of men, whose energy might be applied to pro-duction, remain in enforced idleness.

"In the country, wasted lands; in the cities, wasted men. On the trees and plants, ungathered food; in the centers of population, hungry people. Those are the economic elements of American life. Why do not the statesmen here address themselves to bringing about an adjustment that will cure these evils?

"If any country in Europe had such bounteous natural wealth, such limit-less land area fit for cultivation, and such unused labor energy, it would quickly be transformed into prosperity beyond dreams. Why, in Belgium, even our dogs work. Every city lot is cul-tivated and most of our garden truck is raised on less ground than Americans waste in unused back yards."

FORESTS OF YOSEMITE, SEQUOIA AND GENERAL GRANT NATIONAL PARKS.

That the forests of Yosemite, Sequoia and General Grant National Parks sur-pass any other of their kind in the size and beauty of trees and the number of species represented is stated by C. L. Hill in a publication on the forests of these parks just issued by the Depart-ment of the Interior. This pamphlet, which may be purchased from the Su-perintendent of Documents, Govern-ment Printing Office, Washington, D. C., for 20 cents, contains descriptions of the species and of the forest types as well as pictures of the important trees. The most interesting tree is the sequoia, which is the crowning achieve-ment of the vegetable kingdom in size and majesty and age. "When Cheops dreamed the first pyramid," says Mr. Hill, "some of these hoary giants of to-day doubtless already were springing up and hopefully taking possession of this very soil above which in lordly height and grandeur they look down upon us for millennium after; while Abraham and Moses and David estab-lished and led the people of Israel these hopeful seedlings grew through an ex-uberant youth; in the lusty strength of approaching prime they were entering into their kingdom over the forest when imperial Rome began: they stood in a calm and undaunted maturity when Jesus trod the Judean hills; and when William of Normandy fought on the field of Hastings they were already putting on the hoary garments of age. Yet there they still stand today, after another millennium has sped: in calm serenity and majesty, unhurt by disease unscarred by all save fire and the hand of man, while we, creatures of a day creep about and peep beneath their mighty shade and pass away, while they live on. And there is no visible reason, barring foolhardy destruction by man, why they should not still live for another millennium or more."

INDUSTRIAL ACCIDENTS.

The prevention of industrial acci-dents is largely a question of right mental attitude of those comprising industry, employer and employed.

Certain industrial occupations may be hazardous, but none as hazardous as the making and handling of dyna-mite; yet there are fewer accidents around this high explosive than in any other industry, and for the reason that men handling dynamite have the right mental attitude toward it, they know its danger, and they use care propor-tionate to its danger.

In other words most men do not realize the hazards of their occupa-tions and for that reason do not use due precautions.

And, if it will help us to prevent accident, let us all imagine that our particular industry is a good deal more hazardous than it really is, and use more precaution than is really neces-sary.

Take a black powder mill, for in-stance: It is not necessary to have signs up, "No Smoking," and it is not necessary for the employers to in-struct men not to have steel nails in their shoes. The men themselves take care of these rules, for if a man were to come to work smoking a pipe he would probably have his head knocked off before it would be blown off.

Then another thing so far as safety of life and limb is concerned, you can live next door to a powder mill, for the buildings in which powder is produced are constructed in such a way as to perform the function of a gun, in case of accidental discharge. In other words explosions simply go up in the, air and there is never anyone inside a powder mill while it is in operation. The machinery is started, stopped and adjusted and the mixtures made from outside buildings.

Back in the old days, before con-crete and steel construction, powder mills were constructed of stone, usu-ally circular in form, and the roofs made of cheap wooden trusses and the roof covering of boards in six-foot sections.

An extra roof or two were always kept on hand, the making of which employed the men at odd times, for in case a charge let go the roof of the mill was replaced without delay.

While you would not have very many dishes, or plastering, or pictures on the wall if you lived next door to a powder mill, yet there are fewer peo-ple killed and injured around the in-dustry of powder making than that of far less hazardous industries—farm-ing, for instance.

AGRICULTURE IN ALASKA.

"The spell of the Yukon" from now on, it seems, will not be the spell for the man with the pick looking for gold mines. It will be the man with the pick digging up his ground to plant his garden or farm. Alaskans are finding out that their mines are not so far down in the ground mixed with hard rock, hard stone and often (most often) a hard failure, but closer to the top of the ground if they want to grow vegetables, fruits and flow-ers.

The Alaskans in many districts know this, but do the outsiders? No. For instance when a Kentuckian raises his wonderful "Kentucky Wonder" bean stalk to a height of 8 feet he thinks it is a good length. So it is. Yet an Alaskan near Skagway would laugh at this shrimp, for at the fourth annual Horticultural Fair held at Skagway, Alaska, September 4, a "Kentucky Wonder" bean stalk was shown that grew to be 13½ feet high and started to grow down in the ground again! "But the beans you say, were small." They averaged 6½ inches. The smallest was 3½ inches, the longest 8½ inches.

Raspberry vines of one season's growth, were shown, that were eleven feet long. Potatoes up to 2½ pounds, and turnips from ½ to 12½ pounds. In fact 27 varieties of vegetables were on display. Among them were red

blood beets, weighing 2½ pounds, half grown (note not full grown) sugar beets up to 8 pounds and yellow turnips tipping the scale at 3¾ pounds. In fact turnips are becoming a favorite crop in Alaska, ror Seattle markets are asking for them as well as for more of her luscious rutabagas. Most all were sold in Alaska this year and Seattle is crying for more, as well as for more of the northern strawberries.

This Skagway fair also showed cucumbers 12¾ inches long, lemon cucumbers, peas, tomatoes, peppers, lettuce, brussel sprouts, cauliflower, parsley, mints, onions, garlic, in fact everything in the vegetable line. A cabbage weighing 30 pounds, sound as a rock, took the cabbage prize. This, though, is no wonder for Alaska, as cabbages up to 60 pounds have been raised and eaten.

This is only one fair. The Government, together with the people will have more fairs. It wants 20,000 more settlers for 20,000 more homesteads It is going to open with the railroad it has started to build. As an agricultural project it must be a winner in time. Commenting on agriculture in Alaska, Alfred Burbank, a brother of Luther Burbank, and himself a well known agriculturist, said of the Yukon territory: "Give me time and I will evolve a potato equal to any grown in the world, that will enable Alaska, with her thousands of miles of fertile valleys, to supply all potatoes needed in the United States. American lands are already short. Alaska should also supply cabbages, turnips, celery and all kinds of root crops. Siberian apples should thrive." Of course they should for cherries have been raised near Haines and some have averaged $1200 profit an acre of strawberries.—Carl W. Gross, in Farm and Real Estate Journal.

COMPRESSIVE STRENGTH OF PORTLAND CEMENT MORTARS AND CONCRETES.

WASHINGTON, D. C., May 26, 1916.—A publication has just been issued by the Bureau of Standards, Department of Commerce, on the "Compressive Strength of Portland Cement Mortars and Concretes," which will be of interest to contractors and engineers and, in fact, to all users of cement.

Concrete differs from most structural materials in that it is not manufactured at a mill or plant according to chemical formula, under the observation of skilled specialists, subject to rigid inspection and test and such control as to produce a uniformly homogeneous product; nor is the process of manufacture completed in a few hours or days as in the case of steel products. Furthermore, concrete is made from materials obtained from sources differing widely in characteristics which affect its quality. The proportions of the ingredients, the amount of water used in mixing, the thoroughness of mixing, the manner of placing, the atmospheric temperature and humidity, exposure to sun, rain and wind, immersion in fresh water, sea water, or other natural solutions, all affect the quality of the concrete.

All these matters are discussed in the Bureau's publication which contains the results of some 20,000 tests. The general effect of variation in the methods of preparing the concrete is shown, and suggestions are given as to the proper methods to follow in order to obtain the best quality of concrete.

Many users of cement believe that the strength of concrete is entirely dependent upon the quality of cement used in the mixture. This is not true, as a mixture lean in cement but properly made may have much greater strength than a rich mixture improperly prepared.

While there are not a great many failures of concrete structures, the majority of those which do occur are due to careless methods of preparing and placing the concrete, or ignorance of the effect of variable treatment. Most of the concrete used in building construction work today is mixed with an excessive quantity of water which permits of economic transportation from the mixing plant to the forms by means of shutes and troughs, but this excess of water may result in reducing the strength 50 per cent or more from that which could be obtained by using a lesser quantity of water.

The paper states that certain generally accepted methods of testing aggregates and proportioning mixtures are incorrect and suggests methods of selecting concrete aggregates, proportioning the mixture, mixing, placing and curing.

Copies of the publication, Technologic Paper No. 58, may be obtained free upon request to the Bureau of Standards, Washington, D. C.

POVERTY AND TUBERCULOSIS.

Poverty and tuberculosis—tuberculosis and poverty! These are the essential facts which force themselves to the attention of every investigator who faces the problem of that disease. The tenement house district of Cincinnati yields a tuberculosis morbidity just three times as great as the areas where better housing prevails. In 197 families in which tuberculosis existed the average monthly income for a family of four was approximately $57. After paying the prorata share for food and rent, a balance of $5.13 remained for each individual to meet all other expenses. Such a low subsistence level works like black magic in the spread of tuberculosis. Moreover, and this is a point over which the public should ponder, the home of the average wage earner was found to be far less sanitary than the average factory and workshop. In regard to all the factors which make for healthful living, ventilation, sufficient light, proper temperature, and freedom from overcrowding, the score was in favor of the factory in nearly every instance.

The city of Cincinnati realized that her tuberculosis death rate was 50% above the avearge and that it had failed to manifest a tendency to decline. She felt no qualms in making this admission. Rather, she determined that she would learn why, with an efficient health department and favorable climatic influences, she was suffering from twice the mortality from that disease as her neighbor Pittsburgh. Accordingly the United States Public Health Service was requested to make a thorough study of the situation and submit a report. To show that something more than mere academic interest obtained, 19,932 workers in 154 factories of the city voluntarily submitted to a physical examination.

The conclusions reached, point directly to the close connection between poverty and tuberculosis. The great factor underlying the entire problem was seemingly that of economic conditions. One sixth of all tuberculosis cases came from cheap lodging houses. Alcoholism was a prominent case, and ofter accelerated the course of the disease. Occupational hazards and bad working conditions were apparently responsible for about 20% of the cases, but in the majority of instances these hazards were not necessarily inherent in the occupation. Previous tuberculosis in the family occurred in practically a third of all the cases investigated. Dissipation, overcrowding, bad housing, and innate lack of personal responsibility, were also listed as causes.

An interesting feature of the report, and one which has not previously been dwelt upon in studies of this character, relates to the effect of immigration and the rate of growth of the population of a city upon the tuberculosis death rate. It is shown that cities with a population composed largely of racial stock having a limited resistance to tuberculosis are subject to a high mortality rate from that disease, while centers having a slow rate of population increase are likewise subject to a high tuberculosis rate. The evidence is submitted in a comparative table covering sixteen American cities. Almost witout exception those with a high percentage of Irish, Scandinavian and German stock, and those in which the negro population is relatively large, have a correspondingly high mortality, while those where the Italian and Jewish element is porportionately great have a low tuberculosis death rate. Similarly, such cities as Detroit and Cleveland, with high rates of population increase, show a low tuberculosis mortality, while Cincinnati and Baltimore with a relatively small population increase have a high tuberculosis rate. Doubtless the true explanation of this discrepancy is that advanced by the authors, namely, that where the population increase is rapid new buildings are erected to take the place of old insanitary structures and better housing conditions prevail.

DISCONTINUATION OF GERMAN PUBLICATIONS.

The German post office list shows that 1255 newspapers and other periodicals have ceased to be published during the present year, according to a report in the Brunswick Landeszeitung of April 12, making the total number discontinued since the outbreak of the war 3,000.

BROOKLYN BRIDGE 33 YEARS OLD.

NEW YORK—On May 23rd Brooklyn bridge was 33 years old. It has brought the city about $25,000,000 worth of revenue in nickels in that time. Since other bridges like it have been opened the revenue has not been so great. There are now so many bridges like Brooklyn bridge that it has to be singled out for the curious stranger in New York.

National Military Training

(To cast negative vote write the word "not" in blank space. This will negative the entire ballot.)

Mail Your Vote to This Paper.

I am.....an advocate of National legislation, which will place the Military Policy of the country on the basis of a true Democracy as provided in the Constitution of the United States.

I believe this can be brought about only by making all young men, who are physically and mentally fit, liable for military training before reaching the age of twenty-one.

I believe that such a policy would not only produce the force of trained citizen soldiers necessary to the preservation of the Nation, but would conserve the human resources of the Nation so as to reduce the criminal rate, produce a higher type of manhood, and destroy all traces of class distinction by training and educating the poor and rich alike in the higher duties of citizenship under the same ennobling and invigorating system.

I believe that the Chamberlain Swiss System Bill (S. 1695) or legislation—worked out with the advice of the General Staff of the Army—along these lines, will solve the problem.

Name .....

Date 1916

Street and No.....

City and State.....

"When I introduced my Bill for an Americanized Swiss System I did it with an abiding faith in the good judgment and patriotism of the American people," said Senator George E. Chamberlain, Chairman of the Senate Committee of Military Affairs. When Senator Chamberlain submitted his Bill, carrying out in the main the recommendations of the Army War College for an increase in the regular army, those who were opposed to Preparedness smiled indulgently and few of the advocates of National Defense believed that it would be passed. Even former Secretary of War Garrison, who indicated in his first annual report that he believed that the War College recommendations should be followed, did not think it was wise to send the report of the army experts to Congeras as his recommendations, and submitted a compromise program.

But Chairman Chamberlain adhered to his original announcement that Congress should accept the recommendations of the War College. The preparedness forces lined up behind the Chamberlain Bill and soon a demand came from the people of the country that it should be enacted into law. Chairman Chamberlain believes that the people will meet the issue on Military Training for National Service in the same manner that is has the regular army problem.

To him the question of placing the military policy on a democratic basis is by far a more vital issue, as it not only involves the securing of an adequate force of trained citizens soldiers but a higher training of the boys and young men of the country.

Senator Chamberlain says:

"There is only one way to create a sufficient and a thoroughly efficient reserve to be utilized in case our country becomes involved in war with any first class military power. It can only be done through universal military training, and here it is proper to differentiate between universal military training and universal military service. To compel the young men of the country to learn how to care for themselves in time of the emergency of war does not mean that when war comes they shall be compelled to serve. Service may depend upon the subsequent legislation, but universal military training can be put into effect now, and every young man in the country between the ages of 14 and 21 can be instructed fully in the duties of a soldier.

"It is the most democratic way to create a reserve to be utilized in case of emergency. It would compel the rich and poor alike, the employer and the employee, to understand that they owe a duty to their country as a consideration for the privileges which are accorded to them as citizens and the protection afforded life and property by the laws of the land. We must eventually come to universal military training if we would have a reserve which can be called upon to volunteer, or, if need be, compelled to serve when danger is threatened from without. To this system Switzerland is indebted for the maintenance of its intergrity as a republic surrounded by warring nations. To this system Australia looks for protection against the world. To it America must look for the perpetuity of its institutions and for the enforcement of just demands against predatory nations who listen only to these demands when they are backed by sufficient force.

"Universal military training does not involve militarism; it does not encourage it. On the contrary, it is an antidote for militarism and stimulates the mental qualities of the young men, inculcates discipline, and, in a democracy, creates protection against the armed forces of the world."

By Henry J. Reilly.

The prevalent opinion in the United States seems to be that any scheme looking to the establishment of universal military training is contrary to our institutions and above all to our ideas of democracy.

A discussion of the question generally brings out two specific objections; one that such service only obtains where monarchies are able to force it on unwilling subjects; the other that it is not fair to a young man just starting out in life to take any of his time.

The idea that National service is only found in monarchies and is never adopted where the people have their way is fundamentally incorrect. Australia, a country in which radical measures have been pushed to what is considered by many to be an extreme, has universal military service.

Switzerland, noted since its very beginning for its democracy, has it. Chile and Argentina, the two richest of the Latin-American republics, have it. France has it. Yet she fought all Europe to secure the right to have democracy, and, before this war, carried individualism to such an extreme that many, even of her best friends, thought any crisis demanding unity would lead to her downfall.

What is more important, every Frenchman knows today that it was the patriotism, the sense of duty in opposition to the selfishness of the individual taught by universal military service, which has held France together and enabled her to come through this crisis the way she has. They believe that without this teaching she would have fallen, as her enemies wished and many of her friends feared.

An examination of history shows that one of the fundamental ideas of government always has been that in return for the protection and help given by the state the individual must not only be willing but able to fight to preserve that state. Above all others, this held true in democracies.

As for many centuries all men were trained to arms, the necessity did not generally exist for the state to emphasize its right to train its people as soldiers. From the beginning of our own government the right of the state in time of war to take all males of military age has always existed.

In our early days a form of universal service was maintained in that the men of military age had a certain number of days' training a year. In our civil war the South thoroughly enforced universal military service, while the North, after wasting large sums in bounties to persuade men to enlist, finally came to a modified form of it.

To the objection that service takes time from a young man just starting in life there are two answers: First, if service is universal every one gives the same time, so no individual suffers. Second, it is generally considered in those countries in which such service obtains that the young man's increased efficiency, due to the physical and mental training he has received and above all the sense of duty which has been implanted in him, causes him in the long run to gain time instead of losing it.

One of the fundamentals of democracy is that no one has special privileges. If this is so, why in war should some allow their families and business to suffer, take the risk of serious, perhaps permanent, injury, to say nothing of the possibility of death, while others have the special privilege of remaining at home and profiting by war conditions to increase their personal fortunes. Above all, why should older men, with a higher sense of duty than the average citizen, be called upon to make these sacrifices, while young men with no one dependent upon them in any way are allowed to remain at home?

This is what is happening in Great Britain today. This is what happened in this country during the early part of the civil war. This is what would happen in this country under the present system, or lack of system, should a big war come.

Is there anything democratic about such a method? Is there anything other than democracy in a system which says to every young man of 20, and then 21, 22, and so on, regardless of who

they are: all of you come and fight for your country and the principles for which it stands.

If military service is a burden, as many maintain, why should it not be equitably distributed?

Reformers and others frequently speak of the benefit to be obtained by a closer association of the many kinds of people in this country, if for no other reason than that such association inevitably produces better understanding. What better means of producing such an understanding exists than mutual association in the ranks of an army or on board the ships of a fleet?

It is not always the volunteer armies which are the most democratic. Frequently the universal armies are more so. There is much more democracy in the army of France or that of Switzerland than in the British army. In the British regular army the officer class is separated from the soldier class by an almost impassable gulf.

Among the territorials there are battalions, which, including even the privates, are as exclusive in their way as many guard regiments. In the appointment of officers to Kitchener's new army far more attention is given to the applicant being from the gentleman class, though utterly ignorant of war and everything connected with it, than is shown one from a lower class of society but with military experience.

Universal service insures the presence in the ranks of men as well educated and as of good social position as the officers. Nothing could be more of a preventative to the growth of class feeling. This for the reason that even though for the time being the officer might be all powerful as far as the man in the ranks is concerned, he does not bear that relationship to the man's parents and friends.

Another benefit derived from universal service is that when there are possibilities of war there is less jingoism than under our present method. Men who are willing to have others go are not always ready for war if they have to go themselves.

Women who are entirely satisfied to have the male relatives of others do the fighting are more thoughtful when war means their own are to be subjected to its risks.

BUSINESS MEN ENDORSE FEDERAL AID FOR TRADE SCHOOLS.

Commercial Bodies, Through National Chamber Referendum, Give Affirmative Vote on Recommendations for Government Co-Operation in Industrial Training.

WASHINGTON, D. C., May 19—That the business interests of the country are unquestionably in favor of federal aid for vocational education is indicated by a preliminary count of the votes cast in a referendum just taken by the Chamber of Commerce of the United States. Three hundred and fifty-three commercial organizations, chambers of commerce and boards of trade in forty-two states, Alaska, Hawaii, the District of Columbia, and the American Chamber of Commerce in Paris, France, participated in the ballot. According to Elliot H. Goodwin, the General Secretary of the National Chamber, all four recommendations put forth by a special committee of which Frederick A. Geier, of Cincinnati is chairman, were carried by the two-thirds majority necessary to commit the National Chamber.

Federal Appropriations Favored.

On the first recommendation of the committee—that there should be federal appropriations for promotion of vocational education in the United States the vote was 831 in favor and 110 opposed, each organization being entitled to from one to ten votes, according to its membership.

In order that the assistance of the federal government may be effective, it was said, a relation should be established between federal and state appropriations and provision should be made for federal administration for the part of United States should take. To this end the committee's second recommendation—that federal appropriations should be alloted among the states upon a uniform basis and should bear a uniform relation to appropriations made by the states for like purposes—was carried by a vote of 828 in favor as against 95 opposed.

Creation of Federal Board Endorsed.

In order that the government may have administrative means of giving effect to any federal laws which may make appropriations for vocational education, and may have an instrumentality for consideration of the peculiar interest of the nation in vocational education in all its forms and applications, a suitable federal agency was advocated. For this purpose the committee's third recommendation urged the creation of a federal board to administer the national functions in vocational education which are proposed, this board to be representative in its personnel of the interests which are vitally concerned, and to be given compensation sufficient to command in its membership the great ability appropriate for the task which is to be performed. The result of the balloting was 785 votes in favor and 144 opposed.

Representative Advisory Committees Part of Plan.

There were 784 votes in favor and 137 opposed to the committee's fourth recommendation. It was that the federal board, however, constituted, should be required to appoint advisory committees of five members each, representing industry, commerce, labor, agriculture, home-making, and general or vocational education. It was stipulated that these advisory committees be appointed for only such periods of service as the federal board may determine; that the members receive reimbursement for their traveling expenses and compensation for the time they actually spend in the active discharge of their duties; and that the personnel of the committees represent as many different parts of the country as the geographical distribution of the industry in question will permit. In order to prevent undue expenditures for committees of this kind, the aggregate amount to be spent in any one year might be limited, perhaps to $50,000.

Especially interesting in connection with the results of the voting on the referendum—the fourteenth sent out by the National Chamber—is the personnel of the committee whose report was so unanimously endorsed. The members, besides Mr. Geier, its chairman, are; A. B. C. Dohrmann, of San Francisco; Maurice Fels, of Philadelphia; A. Lincoln Filene, of Boston; Charles McCarthy, of Madison, Wis.; C. A. Prosser, of Minneapolis; G L. Swiggett, of Washington, D. C., and Frank V. Thompson, of Boston.

State Educational Development Would Be Slow.

It might be explained that it was the opinion of the special committee, as brought out in its report, that without government co-operation and the impetus which will come from federal appropriations, the states can themselves develop vocational education only very slowly. The industrial welfare of the country, however, demands all haste that is consistent with care. The Federal Commission on National Aid to Vocational Education, appointed by the President in 1914, reported that only eight states had established systems of vocational education, and these systems have not yet reached one per cent of the workers who need industrial training.

Only Financial Assistance Proposed.

Although it urgently recommended federal aid in vocational education, the committee made no suggestion that the government should do more than extend to the states its financial assistance and the encourgement which will flow from its appropriations and its example. The administration of the schools would remain wholly in the hands of the local authorities and the instructors would be municipal or state employees and not federal employees.

A canvass of the vocational education referendum vote will be made by the Executive Committee of the National Chamhber, May 25.

LATEST CHANGES IN FOREIGN TARIFFS.

May 19, 1916.

A report on the latest changes and developments in foreign tariffs has just been issued by the Bureau of Foreign and Domestic Commerce, Department of Commerce. In addition to the usual notices of recent changes, actual and proposed, in import and export duties, customs regulations, and internal taxes of foreign countries, this publication contains the more important embargo and contraband provisions, an important summary of the regulations affecting commercial travelers in Central American, and articles on a number of other subjects more or less intimately connected with foreign tariffs. There is a timely discussion of the antidumping legislation of Australia, Canada, and the Union of South Africa, and an interesting article on the probable revival of German commercial influence in Russia after the war. The report is designated "Foreign Tariff Notes No. 19," and may be had free of any charge upon application to the Bureau of Foreign and Domestic Commerce or to any of its district offices.

SHASTA IRRIGATION SYSTEM.

REDDING—Ground has been broken on the Anderson-Cottonwood district irrigation system, which is to cost nearly half a million dollars. Work has been begun at the Redding end, where a tunnel is to be driven 2400 feet long for the main canal at the point of divergence of water from the Sacramento River.

SECRETARY OF WAR IN FAVOR OF NATIONAL HIGHWAYS.

WASHINGTON, May 8.—Secretary of of War Newton D. Baker, the "baby" member of the Wilson Cabinet, has set forth some interesting views upon the subject of federal participation in the building of good roads in a letter recently written to Senator George E. Chamberlain, of Oregon, a copy of which was made public here today by the National Highways Association.

The letter is in response to a request from Senator Chamberlain for the War Department's views upon the Shields-Small bill providing for a preliminary investigation and report on a system of national highways. The "report" provided for in the bill is really a survey to be "prepared according to recognized principles of engineering" and to "describe highways to extend into or through all the States of the United States." Such highways are to be "main or trunk-line highways connecting principal centers of population, or places suited to become focal points of communication," to be built and maintained by the Federal Government.

Commenting upon this legislation, Secretary Baker supports both the "safe and wise business principle of preliminary examination and report" and "the sound principles of central control." His letter to Senator Chamberlain reads as follows:

"War Department,
Washington, March 13, 1916.

"Hon. George E. Chamberlain,
"Chairman, Committee on Military Affairs,
"Washington, D. C.

"My Dear Senator:

"I have the honor to present the following reply to your request of the 16th ultimo.

"If Congress desires to enter upon the construction of a system of national highways, the general features of the plan presented in the bill are, in my judgment, admirably adapted to produce the facts necessary for such a consideration. It proceeds upon the safe and wise business principles of preliminary examination and report, thus giving Congress full information collected by trained men and the data so collected forms a definite and essential basis on which to found conclusions as to what extent, if any, and under what conditions the Federal Government shall embark upon such a project.

"It includes also the sound principles of central control, thus insuring standard and uniform results for all sections of the country, and committing expenditures to officers directly accountable to the Federal Government, and alive to the fact that the largest possible outcome for the money placed in their hands is expected of them.

"In addition to the advantages of the intelligent way of going at the matter, and of the uniform and economical results to be expected from the method in which appropriations are to be applied, the plan makes possible a special military advantage in time of war through the fact that officers of the corps of engineering, of whom, in war time, the work of mapping out the theatre of operations and constructing roads therein, depend, would have a wide knowledge of our national communications, and a valuable, practical experience in road contruction. While all the officers of the corps receive through theoretical instruction in the road making art, opportunities are now lacking for giving them the practical experience essential to a quick and ready grasp of the emergencies which would arise at the outbreak of hostilities.

"For these reasons, if Congress decides to embark upon a project of this character, there will be many advantages in conducting the work under the engineering corps of the United States Army.

"With reference to the sum proposed for defraying expenses, the information available in the Department is insufficient to permit a positive expression of views as to whether $20,000 will suffice to prepare a complete preliminary plan for the whole United States or not. The recent highway work for various states has provided a considerable mileage which will be available for connection between principal centers. It has been computed, however, that the total length of roads in the United States is somthing over 2,000,000 miles, and considering the wide extent of the national domain, and the fact that in so many instances alternative routes between centers are available, it will be seen that the plan involves the consideration of thousands of miles of highway. The sum mentioned, however, will doubtless permit the preparation of preliminary plans for a large proportion of the principal routes.

"Very respectfully,
[Signed] "NEWTON D. BAKER,
"Secretary of War."

OVER-PAID POSTAGE ON LETTERS TO COLON.

COLON, PANAMA, April 22.—There have been numerous complaints published in Commerce Reports regarding the underpayment of postage on letters from the United States to various foreign countries; but it is unusual to have to report the overpayment of postage and to call the attention of American manufacturers and exporters to the fact that the domestic rates of postage in the United States apply not only to the Canal Zone but also to the Republic of Panama. Attention is also called to the custom of some American correspondents to inclose United States postage stamps for replies. These stamps cannot be used for this purpose, and are only good for mail leaving the United States.—Commerce Report.

GOVERNMENT PUBLICATIONS FOR SALE.

Among the publications received in stock for sale by the Superintendent of Documents at Washington during the week ended May 6 were the following:

"South America as an Export Field' (Special Agents Series 81).—Monograph giving in condensed form information as to the character, extent, resources, and trade of South American countries, with specific openings for a few special lines. Price, 25 cents.

"By-Products of the Lumber Industry." (Special Agents Series 110).—Describes manufacture of wood distillation, pulp, and tannin, and such minor processes as ethyl alcohol, producer gas, oxalic acid, plastics, and needle oils. Price, 10 cents.

TUNGSTEN CITY RISES.

BISHOP—Discoveries of rich deposits of tungsten in the Sierra and White Mountain have stirred the entire country in the vicinity of Bishop and Big Pine. A few miles west of Bishop a new camp known as Tungsten City, has been established and is growing rapidly. Surveys for a townsite are being made and numerous tents and portable houses have been erected. Arrangements have been made to bring electric power into the district and to provide an abundant water supply. Several tungsten mills have also been ordered and will be erected at once.

$16,800,000 FOR CANAL.

WASHINGTON — Appropriation of $16,800,000 for continuing construction and operations of the Panama Canal, and a fund of $4,535,000 for its fortification, are among items in the sundry civil bill reported to the House by its appropriations committee. It authorizes construction of a dock at Cristobal, at a cost not exceeding $1,500,000 appropriate $500,000 for a government powder plant on a site to be acquired by purchase, condemnation or gift.

FIRST ASBESTOS OF CALIFORNIA SHIPPED.

REDDING—A car of asbestos—fully forty tons—was shipped last Tuesday from the mines on Mears Creek, four miles west of Sims, to Oakland. As far as known, this is the first asbestos ever mined in California. The mines were located this year. Another carload is expected to be shipped the first week in June, after which regular consignments of a carload a week will be made.

Workmen engaged in repairing the ruins of the old Shiragi dynasty tombs in Korea, while employed in a nine-story tower, discovered a stone coffin about two square feet in the third story of the tower. In the coffin were a jeweled ornament, a gold bell, a silver bell, some old coins, a gold vase, a stone gourd, some comma-shaped jewels, and several other rare articles, all relics of ancient times, dating back 1300 years.

DOMESTIC PROSPERITY AND FOREIGN TRADE.

Washington, D. C., May 25, 1916.

"There is an increasing tendancy these days to take stock of our industrial, commercial and financial situation," said Dr Edward Ewing Pratt, chief of the Bureau of Foreign and Domestic Commerce, Department of Commerce, in an address Thursday before the Southern Wholesale Grocers' Association at Memphis. "It is a most encouraging tendency, for in the not far distant future we are going to be put to a great test—perhaps a greater test than that which we passed so successfully during the dark days that followed the declaration of war. We are now, or should be, thinking of the great readjustment. It is stock-taking time.

"Questions are being asked on all sides. What is our actual condition here at home? asks a cautions banker. How much exaggeration is there in all this talk about prosperity? asks a manufacturer who doesn't always believe even when he sees. A great many of our business friends are trying to find out what the return of peace will mean to our industries. They want to know if their war business will be cut off in a day and if there will be a flood of cheap goods from Europe and Asia? There also seems to exist in some quarters a question as to the permanence of the foreign trade we have won. Some folks seem to question our ability to hold it after the war is over.

"Now I won't pretend to be able to finally settle all these questions. But I shall attempt to emphasize some of the important points which I think should be emphasized at this time. I

hope to be able to slightly illuminate a discussion of these matters. They are points that have a direct bearing on the industry and commerce of this country.

"The prosperity of the United States is almost unprecedented. All parts of the country are sharing in the advantages of a great production, of high prices, and continually increasing profits. Our products even at high prices are in great demand, not only at home but abroad as well. The best indices of the domestic prosperity of the United States are the railway earnings, production of pig iron, building operations, bank clearances, and a study of the statistics relating to each of these lines at the present time will quickly reveal the reality of our prosperity.

"Enormous as has been the increase in our domestic trade, that increase is scarcely to be compared with the increase in our foreign trade. The mere statement that our foreign trade in the calendar year 1915 amounted to $5,333,000,000 as compared with our total foreign trade in 1913 of $4,277,000,000 means little or nothing to the laymen. At the present rate our foreign trade will amount to $6,300,000,000 for the fiscal year ending July 1, 1916. To be told, however, that our exports have increased from $2,484,000,000 in the calendar year 1913, to $3,555,000,000 in 1915 may be a more tangible idea. It certainly has a significance to every one of us when we consider these exports consist of cotton, wheat, corn, flour, iron and steel, coal, lumber, agricultural implements, boots and shoes, cotton goods, woolen goods, canned goods, and a host of others. It is also worth while for us to keep in mind the fact that these goods which are exported are grown in the same fields with the products which remain in the United States, are mined from the same mines, are cut from the same forests, are smelted in the same blast furnaces, are manufactured in the same factories, are hauled on the same railways, and it is only when they have reached the seaboard that they cease to be a part of our domestic trade and are then sent to foreign countries.

"Astonishing as it may appear to those who do not know the facts," said Dr. Pratt, "the increase in the export of munitions has actually been less than the increase in the amount of secondary war supplies exported or the items that have no direct relations whatever to the war. As a matter of fact the largest increase in exports has occurred in the groups which might be called secondary war supplies, and those articles which have no direct connection with the war. The smallest increase in actual amount has taken place in the direct munitions of war. The actual amount of increase in the direct exportations of munitions of war to belligerent countries for the six months ending December 31, 1915, was approximately $153,000,000. The actual increase in exports of secondary war supplies to the belligerent countries for the same period amounted to approximately $195,000,000. While the total amount of increase of exportations which have no direct relation to the activities of belligerent nations and of all other products to belligerent and to neutral nations has amounted to approximately $188,000,000.

"Still further and one of our most important items has been the increase in the exports to nations outside the war zone. These facts indicate that for the very latest period on which figures are obtainable our exports to Canada have increased by 22.6 per cent, to Central America by 33.9 per cent, to South America by 31.8 per cent, to Australia by 17.5 per cent, to Africa by 51.5 per cent, and to Russia and Asia and Japan by 135 per cent

"The increase in our exports to countries entirely outside the war zone is the really significant lesson drawn by these statistics. Our trade to Europe, caused by the war perhaps, has increased. We can't get away from that fact, but it is more important and has deeper meaning that our trade with countries only indirectly affected by the war has increased and that that increase has been a very considerable one.

"What part of the increase in our exports other than those which are directly concerned with the belligerent activities of the belligerent nations is due to the fact that the energies of those nations have been withdrawn from their usual pursuits and are now unable to make for themselves the things which they formerly made it is, of course, impossible for us to say. How large a part of that activity which has been carried on by them in normal times has been transferred to this country likewise can not be estimated. How far the belligerent nations have actually cut down their consumption can not be gauged. How far we are taking the place of the great exporting nations of Europe in the neutral markets of the world can only be approximated. Exact figures can not be obtained and figures of almost any kind would be almost wholly misleading. We must, therefore, depend upon such meager sources as we have at our command, and upon the best a priori conclusions which we can draw."

Before expressing his own opinion as to what effect the coming of peace will have on the industries and commerce of the country, Dr. Pratt discussed the two points of view on the subject—the pessimistic and the optimistic. The pessimistic view, with which the speaker said he was entirely out of sympathy, holds that the nations now at war will have to make strenuous efforts to pay off their war debts, and that they will be prepared to get foreign trade at any cost, even if it is necessary to sell below cost; labor will be cheaper when the armies are disbanded and men are plentiful; the women who have been taught the trades will not be soon displaced; cheap goods will be manufactured in great quantities; the United States and Latin America will be the cock-pit of an economic struggle between the European nations.

The optimistic view of the situation, which the speaker said is the correct and logical one, holds that the great war debts will mean greatly increased taxes and that practically all the elements entering into cost of production will consequently be raised. It holds that the good-will so important in selling goods has already been lost to many of the belligerent nations. The labor and supervising force will be considerably reduced and its efficiency impaired. European capital during the last few months has been withdrawn from productive uses and will still further withdraw before the end of the war. Renewals and repairs have not been made. There will be a great demand for capital when peace is made, and interest will be high.

In conclusion Dr. Pratt made the following cheerful forecast of what peace will mean for the business of the country:

"Our economic future rests squarely on the success of our foreign trade. The success of our foreign trade rests squarely upon our abiltiy to compete in the neutral markets of the world with our past and future European competitors. I believe that the logic of the situation and the experience which past conflicts has taught us points certainly and unmistakably in that direction. American manufacturers and exporters who are closest to the firing line are those who are most confident that we will retain and extend our foreign trade. There seems to be, therefore, that with the proper care and with sufficient preparedness financially, industrially, and commercially that we will become the most important factor in world commerce.

"It seems to me that the evidence also points to a period of continued prosperity in the United States. He would indeed be an unwise prophet who would attempt to predict the exact effect of the cessation of hostilities in Europe upon the United States. We can face these consequences with courage and optimism founded upon facts. We must not forget the increased cost of production in Europe. We must not forget the immense advantage which we will have in accumulated stores of capital. We must not forget that we have a scientific banking system which will probably prevent the recurrence of serious financinal panics. We should not forget that we have acquired prestige and good-will in the markets of the world, markets which formerly knew us not and of which we knew less. We must not forget that we have acquired an international point of view in political as well as in commercial affairs. These are considerations which should give us the greatest courage in looking forward to the result of the European war. We face the situation whatever it may be with the knowledge that we are better prepared than ever before. The facts seem to indicate that if we are properly prepared, the United States will experience a period of prosperity and expansion in trade at home and abroad.'

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MODERN WIRE ROPE.

Mathematical Precision Rules Every Process in Its Making.

Although wire rope has been used as a mechanical appliance for almost 5,000 years, it is commonly regarded as a modern invention. During the many years which have elapsed since the first records of its use wire rope has passed from a crude to a highly developed product, and the purposes for which it is employed have increased a thousandfold. In no other branch of the American steel industry is there so great a demand for material of proved integrity, for it might be safely suggested that wire rope is born to be abused. It is subjected to tremendous tensile strains; it must withstand constant bendings, abrasion, corrosion and the peculiar internal stress produced by vibration.

Wire rope as it is made today is the product of the metallurgist and the mechanic. Every process, from the smelting of the ores, the cold drawing of the wire and the heat treatments it receives down to the standing or laying up of the cable, is conducted with mathematical precision.

The chemist sees that only steel of the proper analysis is used; the electric pyrometer insures uniformity of heat; treatment in various testing machines clearly developes the worth of the product before it is allowed to leave the mill. Wire rope is used in the mine shafts more than a mile in depts, and may be found on acroplanes which sail a mile or more above the ground.—Technical World.

DEPARTMENT OF THE INTERIOR.

BUREAU OF MINES.

New Publications. (List 44.—May 1916.)

BULLETINS.

Bulletin 92. The feldspars of the New England and North Appalachian States, by A. S. Watts. 1916, 181 pp., 8 pls., 22 figs.

Bulletin 93. Miners' nystagmus, by F. L. Hoffman, 1916 67 pp.

Bulletin 96. The analysis of permissible explosives, by C. G. Storm. 1916. 88 pp., 3 pls., 7 figs.

TECHNICAL PAPERS.

Technical Paper 122. Effects of atmosphere deficient in oxygen on small animals and on men, by G. A. Burrell and G. G. Oberfell, 1915. 12 pp.

Technical Paper 125. The sand test for determining the strength of detonators, by C. G. Storm and W. C. Cope 1916. 68 pp., 2 pls., 5 figs.

STATEMENT OF COAL-MINE FATALITIES.

Coal-mine fatalities in the United States, 1915, compiled by A. H. Fay, 1916. 80 pp., 3 figs.

NOTE:—Only a limited supply of these publications is available for free distributions, and applicants are asked to co-operate in insuring an equitable distribution by selecting publications that are of especial interest. Requests for all papers can not be granted. Publications should be ordered by number and title. Applications should be addressed to the Director of the Bureau of Mines, Washington, D. C.

Insufficient Postage on Letters to South Africa.

An article appeared in the Cape Town Chamber of Commerce Journal for March, 1916, showing that many American firms are still somewhat careless in posting their foreign correspondence, causing protests by local merchants. A report on the subject states:

The attention of your committee has been drawn to the fact that many business houses in South Africa are mulcted in excess postage on letters from the United States, in consequence of the domestic 2-cent stamp being used instead of the 5-cent foreign rate of postage. Not only is this causing much inconvenience to correspondence in South Africa, but it entails considerable loss of money. Your committee is of the opinion that when correspondence with firms in America merchants might suitably mention this matter to them.—Commerce Reports.

DOMINICAN REPUBLIC'S WOOD PRODUCTION.

PUERTO PLATA, Porto Rica.—In this city local merchants have received numerous requests recently for samples of native woods which combine lightness and strength. A Porto Rican citizen, who is a resident here, has offered for the use of this consulate, in meeting demands from the United States, a sample of the wood known as samer blanca. He states that this variety has the qualities desired to a high degree and that it is possible to furnish it in large quantities.

[The name of the citizen mentioned may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco, Cal. The samples mentioned may also be inspected at the same office. Refer in each instance to file No. 76405.]

DREDGING PROJECT IN HONOLULU HARBOR.

HONOLULU, H. T.—Bids for the dredging of a portion of the harbor of Honolulu around and near the United States quarantine wharf opened recently, and it was announced that the Standard American Dredging Co., of San Francisco, was the lowest bidder. The figure proposed by this company is 23.9 cents a cubic yard, or less than half the bid submitted by the Hawaiian Dredging Co., which asked 50 cents. It was also announced that it would be several months before actual work could begin. The total quantity to be removed is 211,000 cubic yards, and the appropriation will be $80,000.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $25,000. Architect, W. G. Hind, 46 Kearny street, S. F. Owners, Mealey & Collins. Location, southwest Powell and Washington streets, covering an area of 36½ by 60 feet. Will contain two stores on the ground floor and a total of twelve apartments of two and three rooms on the upper three floors. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, hot water system and wall beds. Bath rooms finished in tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 5 story and base. Class C construction, $60,000. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner, Metropolis Investment Co. Location, northwest Post and Leavenworth Sts., covering an area of 60 by 70 feet. Will contain four stores on the first floor and a total of thirty apartments of two, three and four rooms on the upper floors Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, automatic elevator, hot water supply and vacuum cleaning. Wall beds. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $14,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Loschano. Location, north Sutter east of Fillmore. Will contain one large store and a total of nine apartments arranged in suites of two, three and four rooms. Interior finish pine and white enamel. Hardwood floors. Steam heat and oil burning system. Bath rooms tile. Wall beds. Patent store fronts and marble bases. Exterior covered with cement plaster Plans complete and contract awarded to Higginson Co.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $20,000. Architects, Rousseau & Rousseau, 110 Sutter street, S F. Owner, Laura M. Jordan. Location, north Clay west of Hyde. Will contain twelve apartments of two and three rooms. Hardwood floors. White enamel and pine trim. Steam heat and oil burning system. Hot water supply. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, William G. Gilmour, 180 Jessie street. Location, northeast Howard and Seventh streets. Will contain one store and a total of 32 apartments arranged in suites of two rooms and bath. Interiors will be finished in pine and redwood. Some hardwood floors. Steam heat and hot water system. Oil burning equipment. Bath rooms composition. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $35,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, French-California Wine Association. Location, northeast corner of Fowell and Pacific streets. Will contain two stores on the ground floor and a total of thirty apartments of two, three and four rooms on the upper floors. Interior finish pine and white enamel with some elm panels and hardwood floors. Steam heat and hot water system. Coal burning furnace. Bath rooms finished in tile. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Apartment houses, 2, 3 story and base, frame. Cost not stated. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, J. M. Booth. Location, southeast corner of 10th and Oak streets. Each will contain a number of two and three room apartments with private baths and wall beds. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Steam heat and oil burning plant. Bath rooms tile. Exteriors covered with cement plaster and rustic. Plans complete and in the hands of the owner who is now taking figures.

Contracts Awarded

SACRAMENTO, CAL. — Apartment house, 3 story and base. Class C construction, $56,636. Architect, Walter H. Parker, 12 Geary street, S. F. Owner. Florence E. Atkinson. Contractor, Louis Cereghino & Son, 6 Maynard street, S. F. Contract price, $38,636.

MARYSVILLE, YUBA CO., CAL.—Apartment house, 4 story and base, brick. Cost not stated. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not stated. Contractor, Joseph A. Lucas, 1604 V street, Sacramento. Contract price not stated.

BONDS

CRESCENT CITY, DEL NORTE CO., CAL.—June 27th is the date set for the voting of bonds of $100,000 to provide for the development of the Crescent City Harbor, in conjunction with the $390,000 Government appropriation. The election will be conducted under the direction of the Supervisors of Del Norte County.

SANTA MONICA, LOS ANGELES CO., CAL.—Bonds have been voted in this city for the acquirement of four private water systems operating here. They will be combined into one municipal system. The water bonds will cost the city approximately $600,000.

MARYSVILLE, YUBA CO., CAL.—The City Board of Education has decided to call a special election in the Marysville School District for the purpose of voting on the question of a new grammar school building. The sum of $18,000 will be asked for, to be raised by direct tax in the present year budget

FRESNO, FRESNO CO., CAL.—Construction of a $6,000,000 reservoir on the Kings River at Pines flat is planned by representatives of the six proposed irrigation districts, which take in more than 1,000,000 acres of land in Fresno, Tulare and Kings Counties. Petitions are being circulated calling upon the Supervisors of the three counties to call an election to vote on the formation of the irrigation districts.

RIVERSIDE, RIVERSIDE CO., CAL.—The Board of Supervisors have decided that a bond issue for bridges only will be submitted to the voters at the primary election to be held August 29. The amount of the bonds will be determined later, but it will probably be about $150,000.

CATALINA ISLAND, LOS ANGELES CO., CAL.—The Santa Catalina Island Co. has been authorized to issue $1,000,000 bonds, of which $400,000 will be used for improvements, and the remainder to refund outstanding bonds. Included in the proposed improvement is the new Hotel Metropole, which will probably be built at Avalon. The hotel will contain about 150 rooms. Hunt & Burns, Laughlin Bldg., Los Angeles, are the architects.

PLACERVILLE, EL DORADO CO., CAL.—Bonds of $35,000 for schools and $50,000 for the paving of Main street were voted at an election held last week.

MODESTO, STANISLAUS CO., CAL.—The $160,000 bond issue of the Modesto City School District, voted March 11th for the construction of a new high school building, is illegal in the opinion of Attorney General U. S. Webb and the State Board of Control refuse to accept their bid of May 9th, at $171,400, according to a communication received by County Clerk Hugh Benson. It is probable that another election will be called.

SACRAMENTO, CAL.—At the meeting of directors of the Carmichael Colony Irrigation District it was decided to vote on issuing $90,000 bonds June 24. The issue will be for the purpose of putting in the pumping plant on the American River, pipes, ditches, etc.

CALEXICO, IMPERIAL CO., CAL.—June 15th has been advertised as the date for holding an election to vote bonds in the sum of $30,000 to provide funds for the securing of sites for future municipal buildings.

SOUTH PASADENA, LOS ANGELES CO., CAL.—The Board of Education has approved a petition from owners asking for a bond election to secure $100,000 to be used in procuring new school sites.

REDDING, SHASTA CO., CAL.—Further plans for the bonding of the southern part of Shasta County for

$150,000 for the purpose of building good roads will be made at a meeting to be held in Inwood. Fred Smith, secretary of the Shasta County Promotion and Development Association, and J. F. Bedford of Anderson will be among the principal speakers.

Two propositions will be considered at the meeting. One will be the division of the section into two units, one composed of Cottonwod and the west side of the river, and the other of the east side. The second proposition will be to include the entire southern section in one unit.

HAYWARD, ALAMEDA CO., CAL.—The bond issue held last week to vote on the question of issuing and selling bonds for the erection of a new school building failed to carry. There was 155 votes cast in favor of the issue and 650 against.

MERCED, MERCED CO., CAL.—The Merced Union High School District last week voted bonds of $150,000 to provide for the erection of a new union high school building.

BRIDGES, DAMS AND HARBOR WORK

SANTA ROSA, SONOMA CO., CAL.—Bridge, timber. Cost not stated. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma County. Bids will be received up to June 13th at 12 o'clock noon for the construction of a 150-foot pile bent bridge, two 20-foot culverts and the grading of the proposed change in county road between Marin County and Sonoma County near Valley Ford.

VENTURA, VENTURA CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Sealed bids will be received by the Clerk of the Board of Supervisors of Ventura County until 11 o'clock a. m. June 15, 1916, for the reconstruction of the south approach to the Saticoy bridge across the Santa Clara River, one-half mile southeast of the town of Saticoy, Ventura County, Cal. The work consists of the construction of an earth fill approach approximately 760 feet long, and the placing of 71 timber piles for protection, together with other incidental work. The approximate quantities of materials are as follows: Earth fill, 11,850 cubic yards; oil (70% asphaltum), 480 barrels; 20-foot timber piles, 71; grounted boulder facing, 20 cubic yards; barb wire, 20,000 linear feet; ⅝-inch galvanized wire cable (to be furnished by the county), 5,400 linear feet; standard guard fence (material to be furnished by county), 1,460 linear feet. Plans and specifications are on file in the office of the Clerk of the Board of Supervisors and in the office of the County Surveyor, to which bidders are referred.

NEVADA—Bridge, reinforced concrete, $60,000. Engineer, Engineering Department Salt Lake R. R. Co., L. A. Owners, Salt Lake Railroad Co. The Salt Lake Railroad will start work at once on a reinforced concrete arch bridge to replace the wood trestle over Clover Creek, Nevada, on the main line. The arch will be 92 feet span and 23 feet high. The structure will extend 18 feet below the bed of the stream and will have triangular heels 30 feet long, 18 feet deep and 20 feet wide at each end.

Contracts Awarded.

SACRAMENTO, CAL. — Weir and bridge, steel and reinforced concrete, $336,640. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Teichert & Ambrose, Ochsner Bldg., Sacramento. Contract price, $336,640. This price includes both the bridge and weir.

SEATTLE, WASH.—Bridge, steel and reinforced concrete, $36,900. Engineer, City Engineer, Seattle. Owners, City of Seattle. Contractors, Butler Construction Co., Central Bldg., Seattle. Contract price, $36,900.

CHURCHES

PALO ALTO, SANTA CLARA CO., CAL.—Church, 1 story and base, frame and plaster, $25,000. Architect, Elmer Grey, Los Angeles, represented by Architect Henry H. Gutterson, 278 Post street, S. F. Owners, First Church of Christ, Scientist. Designed in the classic style and will contain main auditorium, Sunday school rooms and rooms for the readers. Interior finish pine and ornamental plaster. Art glass windows. Hot air heating and coal furnace. Exterior covered with cement plaster. Plans in the hands of the San Francisco architect, who is letting all contracts.

WHITTIER, LOS ANGELES CO., CAL.—Church, 1 and 2 story and base, brick, $55,000. Architect, H. M. Patterson, 324 O. T. Johnson Bldg., L. A. Owners, Friends Church. Location, Philadelphia and Washington streets. Will contain a main auditorium, seven Sunday school rooms, dining room and completely equipped kitchen. Interior finish pine with some ornamental plaster. Hot air heating system. Exterior faced with pressed brick trimmed with stone. Plans being prepared.

SAN FRANCISCO—Church, 2 story and base, brick and frame, $8,000. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Italian Methodist Church. Location, southeast corner of Greenwich and Powell streets. Designed in the Spanish Colonial style and will contain a main auditorium, Sunday school rooms and pastor's study. Interior finish pine with some ornamental plaster. Art gloss windows. Exterior faced with cement plaster or pressed brick. Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL.—Mausoleum, 1 story. Class A construction, $200,000. Architect's name not given. Owners, Stockton Mausoleum Association, represented by B. C. Wallace, Channel and 4th streets, Stockton. Location, Rural Cemetery. Will contain 2,000 receptacles and 7,000 urns. A large chapel and crematory. Fireproof construction. Cement trim, marble and tile wainscot. Ornamental bronze and art glass. Exterior faced with cement plaster, marble and granite. Plans being prepared.

COURT HOUSES.

COALINGA, FRESNO CO., CAL. City Hall, 2 story and base, brick. Cost not stated. Architect, W. A. Ochs, Coalinga. Owners, City of Coalinga. Location, northwest Sixth and E Sts. Entire first floor will be occupied by the fire department. Council chamber and city offices will be located on the second floor. Interior finish pine. Central heating system. Fireproof vault. Exterior faced with pressed brick. Construction will not be started until bonds have been sold. Further mention will be made of the work.

FACTORIES AND WAREHOUSES

SAN FRANCISCO — Bakery alterations, brick construction, $2,000. Architect, none. Owners, Crocker Estate Co., Crocker Bldg., S. F. Location, 245 Bush street. Work will consist of interior alterations, mill work, plumbing, painting, plastering and electric work. Plans are complete and work will be done by Day Labor.

CROCKETT, CONTRA COSTA CO., CAL.—Warehouse, 1 and 4 story, steel and brick. Cost not stated. Architect, William H. Crim, Jr., 125 Kearny St., S. F. Owners, California-Hawaiian Sugar Co. Will cover an area of 750 by 75 feet with a central portion four stories high, covering an area of 60 by 80 feet. Carried on pile foundation, contract for which has been awarded to the Clinton Construction Co. Other parts of the work to be sublet later. Exterior faced with stock brick. Plans complete.

SEATTLE, WASH. — Refrigerating equipment, $71,292. Engineer, Port of Seattle Commission, Bell Street Dock, Seattle. Owners, City of Seattle. Bids opened by the Port of Seattle Commission for the refrigeration of the apple storage warehouse show the Vilter Manufacturing Co., Seattle, low on their bid of $71,292 with $5,950 to deduct for wood ducts.

FIRE HOUSES AND JAILS

SAN FRANCISCO—Fire house, 2 story and base. Class C construction, $25,750. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, Mint avenue near Mission street. Will contain apparatus room and work room on the first floor and living quarters for the crew on the upper floor. Interior finish pine and hardwood with some hardwood and cement floors. Special plumbing fixtures, showers and tile bath rooms. Steam heat, oil burning plant and special electric work. Exterior faced with pressed brick. Plans complete and figures being taken by the Board of Public Works.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $30,000. Architect, Bernard J. Joseph, Call Bldg., S. F. Owner, David Bibbero. Location, south Pacific east of Baker. Will contain two large residential flats of nine rooms and three baths each. Interiors will be finished in hardwood and white enamel with hardwood floors throughout. Bath rooms will have tile floors and wainscot. A hot water heating system, oil burning plant and hot water circulating system will be installed. There will be open fire places and marble mantels. A basement garage is provided. Exterior will be covered with cement plaster. Contracts for the heating and excavating have been awarded. Bids are now being taken on the balance of the work.

SAN FRANCISCO—Flats, 3 story and base, frame, $7,000. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner, F. Alliguie. Location south Jackson east of Mason.

Will contain three flats of five rooms and bath. Interiors will be finished in pine with some hardwood veneer and white enamel. Hardwood floors will be used in the principal rooms. There will be open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Flats, 2 story and base, frame, $5,000. Architect, none. Owners, Hemminga Bros., 1600 Fell street, S. F. Location, north California east of 15th avenue. Will contain two flats of five rooms and basement rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Flat and stores, 2 story and base, frame. Cost not stated. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, Mr. Sinclair. Location, 23rd avenue and California. Will contain a store on the first floor and two small flats above. Interior finish will be of pine and redwood. Some hardwood floors. Open fire places. Mantels tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and figures being taken.

GARAGES

OAKLAND, CAL.—Garage, 1 story and base, brick, $5,000. Architects, Thomas & Oliver, Pantages Bldg., Oakland. Owner, S. C. Booth. Location, 36th and Telegraph. Designed for a commercial garage and will contain office, storage space and machine shop. Interior finish pine. Cement floor. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans complete and figures being taken.

FRESNO, FRESNO CO., CAL.—Garage, 1 story, frame, $7,200. Architect, none. Owner, George Pickford, 845 P street, Fresno. Designed for a commercial garage and will contain storage space only. Exterior shiplap. Plans complete and work to be done by Day Labor.

Contracts Awarded

SEATTLE, WASH.—Garage, 2 story and base, reinforced concrete, $65,000. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owners, Winton Motor Car Co. Contractors, Warrack Construction Co., Downs Block, Seattle.

GOVERNMENT WORK & SUPPLIES

Cordova, Alaska, Radio Building.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing 3 radio buildings at the naval radio station, Cordova, Alaska:

Item 1. Work, complete, itemized as follows: (a) Operating building; (b) dormitory, (c) quarters; (d) for water systems to point "W," and (e) for sewer systems.

Item 2. Work, complete, except that asbestos shingles as specified for operating building and wood shingles as specified for frame buildings, shall be omitted and all roofs covered with an approved ready-to-lay, slate-colored, weather-proof, fire-resisting roofing. Bids under this item shall be itemized as follows: (a) Operating building; (b) dormitory; (c) quarters; (d) for water systems to point "W," and (e) for sewer systems.

Item 3. Add to items 1, 2, 8, or 9 if all exterior window and door openings, except those in operating building, are screened.

Item 4. Add to items 1, 2, 8, or 9 if all exterior windows are provided with storm sash of stock pattern and design, 1¼ in thick, of same number of lights as the windows they are to be fitted in.

Item 5. Add to or deduct from item 1 or item 2 if all steel sash and metal-covered doors in operating building are omitted and wood frames, sash and doors are substituted therefor.

Item 6. Under this item bidders shall state the amount per linear foot for the provision and installation of water-supply main beyond point "W" and toward the source of water supply, pipe to be 4-inch, cast-iron, bell-and-spigot water pipe, installed with lead and oakum joints.

Item 7. Add to the price named under items 1, 2, 8, and 9 for the construction of concrete intake at glacial stream.

Item 8. Work, complete, as called for under item 1, based on decreased size of operating building, using alternative plan 65272 for operating building in place of plan 65250.

Item 9. Work, complete, as called for under item 2, based on ready-to-lay roofing, using alternative plan 65272 for operating building in place of plan 65250.

Item 10. Add to item 8 or item 9 for storm sash, as called for under item 4, using alternative plan 65272 for operating building in place of plan 65250.

Item 11. Add to or deduct from item 8 or item 9 for wood sash and wood doors for operating building, as called for under item 5, using alternative plan 65272 for operating building in place of plan 65250.

Fliness & Erikson, 1319 1st avenue, Seattle, Wash.—Item 1, $22,315; 2, $21,435; 3, $173; 4, $144; 5, $25; 6, $1.85; 7, $75; 8, $20,416; 9, $19,518; 10, $130; 11, $20.

Christopher Kruppler, 1309 7th avenue north, Seattle, Wash.—Item 1, (a) $10,200; (b) $5,800; (c) $4,200; (d) $1,150; (e) $525; item 2, (a) $9,850; (b) $5,725, (c) $4,250, (d) $1,150, (e) $525; item 3, (b) $75; (c) $60; item 4, (a) $120; (b) $110; (c) $80; item 5, $180; 6, $2.25; 7, $95; 8, $7,300; 9, $7,050; 10, $85; 11, $120.

Pearson Construction Co., 751 New York Block, Seattle, Wash.—Item 1, (a) $12,455.50; (b) $8,257.50; (c) $5,825.40; (d) $1,162; (e) $716; Item 2, (a) $12,155; (b) $8,225; (c) $5,800; (d) $1,162; (e) $716; item 3, $200; 4, $400; 5, no change; 6, $2.75; 7, $250; 8, $9,200; 9, $9,000; 10, $100; 11, no change.

Berk Ward, 513 31st avenue, Seattle, Wash.—Item 1, total, $20,997.84, (a) $9,978.05, (b) $5,681.89, (c) $4,100, (d) $670, (e) $565; item 2, total $20,213.90, (a) $9,429.90, (b) $5,515, (c) $4,034, (d) $670, (e) $565; item 3, $160; 4, $97; 5, $79.85; 6, $1.11; 7, $300; 8, $19,231.79; 9, $18,181.40; 10, $67; 11, $60.

Vallejo, Cal., Cranes.

No bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., May 29 for furnishing two shipbuilding cranes for the Mare Island Navy Yard.

Los Angeles Harbor, Dredging.

Under bids opened by the engineer at Los Angeles, Cal., the contract for dredging in Los Angeles Harbor, Cal., has been awarded to the San Francisco Bridge Company at $27,501.

Baker, Ore., Painting.

The following bid was received by the custodian, U. S. post office, Baker, Ore., for painting in the above building:

Jarvis, & Co., St. Louis, Mo., $44; 90 days.

Wenatchee, Wash., Post Office.

The following bids were received by the supervising architect, Treasury Department, Washington, D. C., for the construction complete of the U. S. post office at Wenatchee, Wash.:

Item 1, limestone; 2, sandstone.

Harding F. Allan, Seattle, Wash., item 1, $81,153; 2, $80,752.

Bird & Hobson, Wenatchee, Wash., item 1, $79,000; 2, $78,618; Hercules sandstone, $76,000.

Thomas W. Cissel, Worcester, Ohio, item 1, $87,500; 2, $88,500.

Wm. H. Maxwell, Lakeside, Wash., item 1, $94,940.

J. B. Sweatt, Spokane, Wash., item 1, $97,000; 2, $97,400; Wilkinson sandstone $99,400.

T. E. Young & Co., Seattle, Wash., item 1, $84,918; 2, $89,346; Wilkinson sandstone, $88,224; Boise, $86,418, and Hercules, $85,515.

Welch Bros. & Hannaman, Oakland, Cal., items 1 and 2, $85,998.

John Wallin, Tacoma, Wash., item 1, $83,200; 2, $84,000; Boise sandstone, $84,500; Wilkinson, $87,400.

Naval Supplies.

Bids will be opened June 20 by the bureau of supplies and accounts, Navy Department, Washington, D. C., for furnishing the following:

Schedule 9654.

Steam Engineering.

Class 1. Puget Sound—1 traveling crane.

Alternate—Do. f. o. b. works.

Miles City, Mont., Furniture.

The contract for installing furniture in the U. S. post office at Miles City, Mont., has been awarded to the Richmond School Furniture Company, of Muncie, Ind., at $1,834.60.

Supervising Architect—Pending Projects.

The following projects bids for which were opened on dates indicated below, are pending in the office of the supervising architect:

Durango, Colo—Construction, May 18.

Honolulu, H. T.—Rebuilding superstructure of wharf, May 1.

Los Angeles, Cal.—Vacuum cleaning machinery, May 18.

San Francisco Custom House—Light fixtures, January 27.

Wenatchee, Wash. — Construction, May 19.

Gates and Stands.

Contracts have been awarded by the U. S. reclamation service for gates and stands for the Milk River irrigation project, Montana, to the following firms: Items 1, 3a, and 4a, Vulcan

Iron Works, Denver, Colo., $5,098; item 2, Joshua Henry Iron Works, San Francisco, Cal, $1,170; items 5 and 6, Lakeside Bridge and Steel Co., North Milwaukee, Wis., $1,022.

Reclamation Structures.

Contract has been awarded under authority of the Secretary of the Interior to the Security Bridge Co., of Minneapolis, Minn., for the erection of structures: Schedule 1, first unit, Frannie division, Shoshone project, Wyoming, at a total price of $15,735.96. The work involves about 4,700 cubic yards of excavation, 580 cubic yards of concrete, placing 50,000 pounds reinforcing steel, laying 2,000 linear feet of drain pipe, and the erection of wooden structures requiring the use of 20,000 feet, B. M., of lumber and other miscellaneous work. All bids on schedule 2 have been rejected, and the work will be performed by government forces.

Interior Department, Motor Wagons.

The following bids were received by the chief clerk, Interior Department, Washington, D. C., for furnishing and delivering at El Portal, Cal., one motor-driven road sprinkling wagon with 1,200-gallon tank and 5-ton chassis for use in Yosemite National Park:

United Motors Co., Grand Rapids, Mich, $4,250 f. o. b. works; time, 45 days; informal; no check.

The White Co., New York City, $4,850, f. o. b. New York; time, 20 days; alternate bid, $4,300 with gravity feed; time, 20 days.

Kinney Manufacturing Co., Boston, Mass., $5,000, f. o. b. factory; time, 40 days.

San Francisco, Cal., Steel Cases.

The contract for installing 20 steel Francisco, Cal., has been awarded to the Berger Mfg. Co., Canton, Ohio, at $3,862; time, 120 days.

Los Angeles, Cal., Repairs.

The contract for repairs to judge's platform, etc., in the U. S. post office at Los Angeles, Cal., has been awarded to Southern California Hardwood and Mfg. Co. at $590.

HOSPITALS.

SAN FRANCISCO—Hospital dispensary, 2 story, reinforced concrete. Cost not stated. Architect, Constructing Quartermaster Office, Fort Mason. Owners, United States Government, Location, Letterman General Hospital, Presidio of San Francisco. Will cover an area of 90 by 60 feet. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Special cabinets. Steam heat from central system. Hot water supply. Clay tile roof. Exterior faced with cement plaster. Plans complete and figures being taken. Bids close on June 12th at 11 a. m. An official proposal appears in another column of this issue.

SAN FRANCISCO—Hospital Lighting fixtures, $985. Architect, August G. Headman, Call Bldg., S. F. Owners, City and County of San Francisco. Bids opened for lighting fixtures for the pathological ward at the San Francisco Hospital show Ickelheimer Bros. low at $985. They will probably be awarded the contract.

IRRIGATION PROJECTS

ANDERSON, SHASTA CO., CAL.—Irrigation work. Cost not stated. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. Bids have been ordered advertised by the directors of the Anderson-Cottonwood Irrigation District up to July 1st for the concrete work in the proposed system now under construction, and for the construction of the Churn Creek syphon. These are the last of the bids to be asked in connection with the entire system, contracts for which have been let totaling $235,000. Plans and further information may be had from the secretary of the Board of Directors at Anderson.

Contracts Awarded.

ANDERSON, SHASTA CO., CAL.—Irrigation work, $60,828. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The Directors of the Anderson-Cottonwood Irrigation District let five more contracts for construction work on the irrigation system. James Willison of Oakdale, who is at work on contracts aggregating $130,000, was the successful bidder on four contracts. The fifth went to Frank McIntire of Stockton. Willison is at work on the first twenty miles of the main canals. He was awarded the contract for the remaining fourteen miles — 185,000 cubic yards—at 13½c, or $24,975. He will also excavate lateral No. 21, passing through Anderson—116,000 cubic yards—at 11c, or $12,750. This lateral is between 12 and 13 miles in length. Laterals Nos 37 to 47, inclusive, will be dug by Willison for $2,275. Willison received the contract also for conconstructing laterals Nos. 3 to 19, all on the west side, 49,000 cubic yards, at 13c, or $6,370. Frank McIntire of Stockton was the successful bidder on all the laterals in Churn Creek bottom. His price is 12.9c a cubic yard for 112,000 cubic yards, or $14,448 for the job. Two bids were received forconstructing the Churn Creek siphon across the Sacramento River. These will be acted upon within the next few days.

LIBRARIES

BERKELEY, ALAMEDA CO., CAL.—Library lighting fixtures. Cost as follows. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Thomas Day Co., San Francisco, submitted the lowest figure for furnishing the lighting fixtures for the University Library at $17,446.70 for proposition 1, and $11,653.06 for proposition 2. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

RAILROAD CONSTRUCTION AND EQUIPMENT

ROSEBURG, ORE. — Railroad construction, $300,000 Engineer, L. G. Hicks, Roseburg. Owners, City of Roseburg. City Engineer L. G. Hicks has been instructed by the City Council of that place to prepare plans and specifications covering the construction of the proposed 20-mile railroad from Roseburg to Rock Creek. The taxpayers recently voted $300,000 in bonds to cover the cost of the work.

RICHMOND, CONTRA COSTA CO., CAL. — Railroad station addition, 1 story, frame, $3,480. Engineer, none. Owners, Atchison, Topeka & Santa Fe Railroad Co., 673 Market street, S. F. Location, Macdonald avenue and Ashland. Will contain a waiting room and ticket office. Interior finish pine and redwood. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded.

PULLMAN, WASH—Railroad station, 1 and 2 story, concrete and brick, $25,000. Architect, none. Owners, Northern Pacific Railroad Co. Contractors, Sound Construction and Engineering Co., Immigration Bldg., Seattle. Contract price, $25,000.

RESIDENCES

SAN FRANCISCO — Residence, 2 story and base, frame, $2,500. Architect, none. Owner, Eric Dahlberg, 249 Noe street, S. F. Location, east 23rd avenue south of Lincoln. Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $18,000. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner, Mr. Giselman. Location, Presidio Terrace. Will contain twelve rooms, three baths and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Hot water heating system, hot water circulating system and vacuum cleaning. Bath room tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

SAN FRANCISCO — Residence, 1 story and base, frame, $2,000. Architect, none. Owner, N. F. Nilsson, 355 Coleridge street, S. F. Location, south Rivera west of 21st avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $10,000. Architect, John J. Foley, 46 Kearny street, S. F. Owner, W. A. Buster. Location, 12th avenue and Anza. Will contain ten rooms, two baths and basement garage. Interior finish red gum and white enamel with some hardwood veneer. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with cement plaster. Clay tile and shingle roof. Plans complete and figures to be called for shortly

SAN FRANCISCO — Residence, 2 story and base, frame, $9,000. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, Mr. Grant. Location, Forest Hill. Will contain nine rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Hot air heating with gas burning fur-

nace. Bath rooms tiled in tile and equipped with showers. Automatic water heater. Open fire places and tile mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,000. Architect, William R Hanna. Owner, A. Howkins, 4424 Pampas avenue, Oakland. Location, north Courtland avenue west of High street. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, $2,500. Architect, none. Owner, R. Cormack, 580 39th street, Oakland. Location, south Rich west of Webster. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, H. Goranson, 431 48th street, Oakland. Location, east Laguna south of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. F. Neary, 1723 Telegraph avenue, Oakland. Location, east View street north of Mather. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. — Residences, 3, 1 story and base, frame, $2,500 each. Architect, none. Owners, E. & A. Co., Syndicate Bldg., Oakland. Locations, east Laguna north of Montana. Each dwelling will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,250. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, John Hood. Location, Santa Barbara north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 2 story and base, frame, $3,200. Architect, none. Owner, S. V. Nichols, 2217 Parker street, Berkeley. Location, north 4th avenue west of Greenwood. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,000. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, D. J. Horgan. Location, Cragmont. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and hardwood. White enamel in the bed rooms. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, Mr. Adney. Location, Fourth Avenue Heights. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $8,500. Architect, Henry H. Gutterson, 278 Post street, S. F. Owner, Robert McDuffie. Location, Arlington street. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat and open places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, Buena Vista avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,500. Architect, John J. Foley, 46 Kearny street, S. F. Owner's name withheld. Location, Claremont. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $3,000. Architect, none. Owner, Herbert F. Kern, 1326 Arch street, Berkeley. Location, est San Benito avenue between Spruce and Marin. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALBANY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect none. Owner, James Clark, 651 London street, S. F. Location, Madison north of Buchanan. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, F. W. Batdorf, 1736 Milvia street, Berkeley. Location, east Milvia north of Berkeley. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $2,000. Architect, none. Owner, Victor Gullmes, 1828 Castro street, S. F. Location, north Rilph west of Madrid. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owners, Central California Land and Improvement Co., Fresno. Location, La Sierra Tract. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 1 story, frame, $1,500. Architect, none. Owner, C. A. Clark, 451 Thesta, Fresno. Location, 3227 Nevada avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL.—Residence, 1½ story and base, frame, $3,500. Architects, Sala & Mayo, Commercial Bank Bldg., Stockton. Owner, Mr. Robb. Location, Texido Park. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

VALLEJO, SOLANO CO., CAL.—Residence, 1 story and base, frame, $2,500. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Will contain six rooms, bath and sleeping porch. Inte-

r finish pine and redwood with some hite enamel. Hardwood floors. Open e place and tile or brick mantel. th room tile. Automatic water heat- Exterior covered with cement plas- . Plans being prepared and work be done by Day Labor.

SAN FRANCISCO—Residence, 2 story d base, frame, $4,000. Architect, ne. Owners, S. A. Born Building Co., Market street, S. F. Location, Lin- ln Manor. Will contain seven rooms, o baths and basement garage. Inte- r finish pine, hardwood and white amel. Hardwood floors. Open fire aces and furnace heat. Bath rooms e. Mantels tile and brick. Auto- tic water heater. Exterior covered th cement plaster. Plans complete d work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story d base, frame, $7,500. Architect, E. . Cannon, Central Bank Bldg., Oak- nd. Owner, Mrs. E. M. Woodward. cation, Claremont Crescent Tract. ill contain nine rooms, three baths d sleeping porch. Interior finish pine, rdwood and white enamel. Hard- ood floors throughout. Furnace heat d open fire places. Mantels tile or ick. Bath rooms tile. Automatic ater heater. Exterior covered with ment plaster. Plans complete and ures being taken.

SANTA CRUZ, SANTA CRUZ CO., AL—Residence, 2 story and base, ame, $12,000. Architect, George Mc- ea, First National Bank Bldg., Oak- nd. Owner, Mrs. A. H. Munsell. De- gned for a country home and will ntain twelve rooms, three baths and eeping porches. Separate garage. terior finish hardwood and white en- el. Hardwood floors. Central heat- g system and open fire places. Man- ls stone, tile and brick. Bath rooms e. Hot water circulating system. xterior covered with cement plaster. ans complete and figures being taken om selected contractors only.

SACRAMENTO, CAL.—Residence, 1 ory and base, frame, $1,500. Archi- ct, none. Owner, Carl Koch, 330 Car- ell street, Sacramento. Location, 12 24th street. Will contain five oms, bath and sleeping porch. Inte- or finish pine and redwood with some hite enamel. Hardwood floors. Open e place and tile mantel. Exterior vered with cement plaster. Plans mplete and work to be done by Day abor.

SCHOOLS

SAN FRANCISCO—School, 3 story nd base, steel frame and brick, $145,- 0. Architect, John Reid, Jr., First ational Bank Bldg., S. F. Owners, ity and County of San Francisco. Lo- ation, 20th street between Texas and issouri. To be known as the Daniel ebster School, and will contain six- en class rooms, departments for man- al training and domestic science, li- rary, teachers' rooms, principal's of- ce and an auditorium seating 400 eople. Interior finish pine with maple oors. Steam heat, oil burning system, acuum cleaning and program clocks. arble and tile wainscot. Slate black- oards. Exterior faced with pressed rick. Fireproof stairways. Plans omplete and figures being taken. Bids be opened by the Board of Public Works on June 14th.

TULARE, TULARE CO., CAL.—School, 2 story and base, brick, $5,000. Architect, W. F. Bowen, Fresno. Owners, City of Tulare. Will cover an area of 32 by 62 feet. One class room and office. Interior finish pine. Exterior faced with stock brick. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—School, 1 story and base, frame and plaster, $18,000. Architect, J. B. Ogborn, 611 Macdonald avenue, Richmond. Owners, Lincoln Grammar School District. Location, 10th street, covering an area of 190 by 60 feet. Will contain six rooms and assembly hall. Interior finish pine with some maple floors. Central heating system. Oil burning furnace. Exterior covered with cement plaster. Plans being prepared.

TRACY, SAN JOAQUIN CO., CAL.—School, 2 story and base, brick or reinforced concrete, $50,000. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Tracy School District. Will contain twelve class rooms, an auditorium, departments for manual training and domestic science and teachers' room. Interior finish pine, hardwood floors and slate blackboards. Steam heat, oil burning plant and vacuum cleaning. Exterior faced with cement plaster or pressed brick. Plans being completed and bids to be called for shortly.

NELSON, BUTTE CO., CAL.—School, 1 story, frame, $10,000. Architect, Chester Cole, Waterland Bldg., Chico. Owners, Nelson School District. Will contain three class rooms and an assembly hall. Interior finish pine with some maple floors. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded

PITTSBURG, CONTRA COSTA CO., CAL.—School addition, 1 story, frame, $2,997. Architect, William Knowles, Hearst Bldg., S. F. Owners, City of Pittsburg. Contractor, D. H. MacQuiddy, Pittsburg. Contract price, $2,997.

SAN BRUNO, SAN MATEO CO., CAL.—School, 1 story, frame. Cost as follows. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. Contractor, R. C. Stickley, San Bruno. Contract price, $11,813. W. L. Hickey, South San Francisco, plumbing and tining, $2,181.07.

SEWERS, STREET WORK & WATER SYSTEMS

SACRAMENTO, CAL.—Highway construction. Cost not stated. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be opened on June 26th at 2 p. m for constructing the following State highways: San Mateo County—4.2 miles, Portland cement concrete; Ventura County—5.6 miles, Portland cement concrete; Humboldt County—4.3 miles, Portland cement concrete; Shasta County—2 reinforced concrete bridges, one 120 feet long over Salt Creek and one 541 feet long over Sacramento River. An official proposal appears in another column of this issue.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Commissioners have declared the certified check accompanying the bid of Leach & De Camp for sewer work in the city of Stockton forfeited. This was done by resolution. It is probable that new bids will be called for the work to be done.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications were adopted for the construction of the main sanitary sewer along Fair Oaks avenue, fram Marsh street to East street; along East street to Oak street; along Oak street to West street; along West street to Smith Canal, with branch from Union street from Acacia to Oak street. The system of sewers provided for by the Council will furnish the city with these main sewers connecting with the existing sewers in the Oaks, in Fair Oaks and intersecting the main sewers on El Dorado and Harrison streets. Bids are now being taken. Plans may be had from the City Clerk.

DUNSMUIR, SISKIYOU CO., CAL.—Street improvement. Cost not stated. Engineer, Town Engineer, Dunsmuir. Owners, Town of Dunsmuir. Bids will be received up to June 14th at 8 p. m. for paving of Florence avenue with concrete for a width of 15 feet from the south line of Ash street to the north line of Spring street, and from the north line of Willow street to the north line of Brandstetter street.

EUREKA, HUMBOLDT CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received up to June 13th at 2 p. m for grading and paving with concrete one-half mile of the county road leading out of the city of Eureka, from the city limits at Bucksport towards Elk River in Road District No. 4.

MAYFIELD, SANTA CLARA CO., CAL.—Drainage system. Cost not stated. Engineer, W. H. Myrick, Mayfield. Owners, Town of Mayfield. The Mayfield Board of Trustees at its last meeting instructed W. H. Myrick, deputy superintendent of streets, to prepare plans and specifications for the proposed drainage system for Mayfield. Further mention will be made of this work when the plans have been accepted by the Trustees.

UPLAND, SAN BERNARDINO CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Upland. Owners, City of Upland. Bids will be received up to June 26th at 7:30 p. m. for improving Ruedy street, between B street and a point 33 feet north of the south boundary of the city limits, and a portion of B street, according to plans and specifications on file in the office of the city engineer. The work consists of grading and oiling with liquid asphaltum, covered with broken stone screenings, and stone curbs. Certified check or bond for 10 per cent. Charles P. Fuller, city clerk.

FRESNO, FRESNO CO., CAL.—Drainage system and sanitary sewer system, $500,000. Engineer, City Engineer B. E. Cronkite, associated with Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, Owners, City of Fresno. Frank Gillelen, of the firm of Olmsted & Gillelen, has arrived in Fresno to start preparations for calling bids and awarding contracts for Fresno's sanitary sewer and storm water drainage systems. Bonds for the construction

of these systems were voted a few weeks ago.

REEDLEY, FRESNO CO., CAL. — Filter bed and system. Cost not stated. Engineer, City Engineer Chris P. Jensen, Reedley. Owners, City of Reedley. Bids will be opened on June 13th at 5 p. m. for the construction of a filter bed and system in and for the city of Reedley.

SAN LEANDRO, ALAMEDA CO., CAL.—Rock and screenings. Cost not stated. Engineer, City Engineer, San Leandro. Owners, City of San Leandro. Bids will be received up to June 19th at 8 p. m. for supplying rock and screenings to the City of San Leandro for the year ending June 30th, 1917.

ALAMEDA, ALAMEDA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Alameda. Owners, City of Alameda. For the second time bids received by the Alameda City Council for street work have been returned to the bidders unopened. There were six bids for the improvement of Central avenue. The engineer was instructed to prepare plans for the work. New bids will be called for in about a month.

OAKLAND, CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland Bids will be opened on June 15th for street improvements ordered under the following resolutions: That 45th avenue, from the southwest line of East 14th street, to a line parallel to and distant 50 feet northeast from the northeast line of East 10th street, and the crossing of East 10th street with 45th avenue, each, be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also that a vitrified pipe conduit, having an internal diameter of 12 inches, be constructed in 45th avenue, from the northeast line of East 10th street to the existing water course crossing said 45th avenue, about 540 feet southwest of East 10th street, said conduit to be located parallel to and distant 13 feet southeast from the northwest line of 45th avenue; also that a brick manhole with a cast iron top be constructed at the northeast end of said conduit; also that a corrugated iron and concrete culvert having two branches, be constructed in the crossing of East 12th street with 45th avenue.

That a sewer, having an internal diameter of 8 inches, be constructed along the center line, and its production, of Harvey avenue, from the center line of 57th avenue to a point distant 543 feet northwest therefrom, measured along said center line of Harvey avenue; also that a brick manhole with cast iron top be constructed at the southeast end of said sewer; also that a lamphole with brick and cast iron top be constructed at the northwest end of said sewer; also that Y branches, each having 5-inch openings, be constructed on said sewer so as to provide one such branch for each 25-foot lot, and fractional lot remaining, into which the abutting property frontage is capable of being divided. Said sewer, Y branches and lamphole (excepting the top thereof) shall be constructed of vitrified sewer pipe.

That a sewer, having an internal diameter of 8 inches, be constructed along the center line of D street, from the center line of 88th avenue to a point distant 200 feet southeast therefrom, measured along said center line of D street; also that a lamphole, having a top of brick and cast iron, be constructed at the southeast end of said sewer; also that Y branches, having 5-inch openings, be constructed on said sewer so as to provide one such branch for each 25-foot lot, and fractional lot remaining, into which the abutting property frontage is capable of being divided. Said sewer, Y branches and lamphole (excepting the top thereof), shall be constructed of vitrified sewer pipe. For further particulars address Board of Public Works, Oakland, Cal.

VALLEJO, SOLANO CO., CAL. — Street improvement. Cost not stated. Engineer, City Engineer T. D. Kilkenney, Vallejo. Owners, City of Vallejo. Plans are being prepared by City Engineer T. D Kilkenney for the paving of the alley between Sonoma and Brancigorte and Virginia and Capitol streets. It is probable that the pavement will consist of concrete, over which is spread a wearing surface of an inch and one-half of Topeka dressing. Bids will be called for within the next few days

NAPA, NAPA CO., CAL.—Street improvements. Cost as follows. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council bids for the improvement of Laurel street were opened. H. C. Mullett bid $2,372.65 and George E. Errington bid $2,631.72. The awarding of the contract was laid over for one week. Bids were also opened for the improvement of Seymour street. F. A. Burge bid $1,724.88 and George E. Errington bid $1,725.87. F. A. Burge, Alta Heights, Napa, was awarded the contract.

VALLEJO, SOLANO CO., CAL. — Street improvements, $11,000. Engineer, City Engineer T. D. Kilkenney, Vallejo. Owners, City of Vallejo. The grading and paving of two of the principal alleys is to cost over $11,000, according to the estimate of cost submitted to the City Council by City Engineer T. D. Kilkenney. Plans and specifications for the improvement of Hudson alley, from Sonora to Monterey, and Jeffery alley, from Branciforte to Sonoma, were submitted to the Council and adopted. Hudson alley, which is between Georgia and York streets, is to cost $6,188.40, this amount to include the construction of a sewer in that alley. Jeffery alley, which is between Virginia and Capitol streets, is to cost $5,114.30. The specifications provide for a pavement of plain concrete in each alley, except that on the grades in Hudson alley the concrete will be corrugated. Bids will be called for shortly on this work.

RICHMOND, CONTRA COSTA CO., CAL.—Fill, earth. Cost as follows. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. Only two bids were received by the City Council for a fill of 10,000 cubic yards on the approach to the municipal wharf, as follows: Moffett & Meade, $6,100; Blake Bros., $3,800. No contract was awarded.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. The Clerk of the County Board of Supervisors has been directed to advertise for bids for the construction of five and one-half miles of improved highway from Guernsey to the Dallas school house and three miles running due east of Guernsey. The bids close June 14th at 2 p. m. Plans and specifications together with full information may be had from the County Clerk.

Contracts Awarded.

SAN JOSE, SANTA CLARA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, San Jose. Owners, City of San Jose. Contractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract price not stated.

SACRAMENTO, CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owner, City of Sacramento. Contractors, McGillivray Construction Co., 1007 7th street, Sacramento. Contract price not stated.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, F. W. Nighbert, 817 1 street, Bakersfield. Contract price not stated.

REDONDO BEACH, LOS ANGELES CO., CAL.—Street improvement, $23,852.15. Engineer, City Engineer, Redondo Beach. Contractors, Highway Construction Co., Highland. Contract price $23,852.15.

STORES AND OFFICES

SAN FRANCISCO—Store and office alteration, 4 story and base. Class construction, $25,000. Architect, J. J. Miller, Lick Bldg., S. F. Owners, City Investment Co. Location, southeast Market and Fremont streets. Work will consist of rearranging the present interior partitions for modern offices, new store fronts and some exterior work. Plans are complete and segregated figures are being taken.

MANTECA, SAN JOAQUIN CO., CAL.—Stores and garage, 1 story and basement, brick, $15,000. Architect, Franklyn J. Warner, San Joaquin Bldg., Stockton. Owner, Dr. C. L. Six. Will cover an area of 200 by 75 feet and contain six stores and a commercial garage. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans are being prepared.

SELMA, FRESNO CO., CAL.—Stores, 1 story and base, brick, $20,000. Architect, none Owner, W. A. Burrell. Manbridge Apartments, Fresno. Will contain four modern stores. Interior finish pine, hardwood and tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans are being prepared.

Contracts Awarded

SEATTLE, WASH. — Department store, 5 and 7 story and base, reinforced concrete and steel, $1,000,000. Architect, John Graham, Green Bldg., Seattle. Owners, The Frederick Nelson Co. Contractors, Black Construction Co., St. Louis. Contract price, $1,000,000.

SEALED PROPOSALS

PROPOSALS FOR BUILDING.

BUILDING — Sealed proposals, indorsed "Proposals for Radio Operators' Quarters," will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 a. m. June 17, 1916**, and then and there pu

licly opened, for constructing one frame building at the naval radio station, North Head, Wash. Plans and specifications may be obtained on application to the bureau or to the commandant of the navy yard, Puget Sound, Bremerton, Wash. F. R. HARris, chief of bureau.

PROPOSALS FOR POWER EQUIPMENT.

POWER AND PUMPING EQUIPMENT—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S Reclamation Service, Denver, Colo., until **2 o'clock p. m. June 15, 1916,** for furnishing and erecting power and pumping equipment for the Grandview Irrigation District, Yakima project, Washington, involving a generator, transformers, switchboard equipment, hydraulic turbine pumps, steel pipes, head gates, etc. The work is located near Grandview, Wash. For particulars address the U S. Reclamation Service, Washington, D. C.; Denver, Colo., or North Yakima, Wash. A. P. Davis, Chief Engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1045 — Office General Purchasing Officer, Panama Canal, Washington, D. C.—Sealed proposals will be received here until **10:30 a. m. June 19, 1916,** under circular 1045 for furnishing kerosene and gasoline for the period ending June 30, 1917. For further information address EARL I. BROWN, Major, Corps Engineers, U. S. A., General Purchasing Officer.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, 220 California Hall, University of California, Berkeley, Cal., **at or before 9:00 A. M., June 9, 1916, for the Mechanical Equipment for the University of California Power Plant** on the grounds of the University of California at Berkeley, Cal., as per plans and specifications on file and obtainable at the Cashier's window at said office.

A deposit of $10.00 will be required for each set of plans and specifications, which deposit will be refunded upon return of said plans and specifications. No bids will be received unless accompanied by a certified check or bond in favor of the undersigned, equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1048 — Proposals for Structural Steel, Bronze Wire Cloth, Soil Pipe, Wrought Iron or Steel Pipe, Pipe Fittings, Brass Tubing, Brass Clean-outs, Floor Drains, Valves, Cocks, Lead Pipe, Lead Traps, Solder, Pipe Hangers, Brass Chain, Shower Heads, Sanitary Fixtures, Range Boilers, Refrigerator Traps, Oakum, Putty, Door and Window Hardware, Doors and Sash and Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 26, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1048) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1047 — Proposals for Steel, Boiler Tubes, Steel and Iron Pipe, Chain, Steel Cable, Electric Cable, Track Bolts, Eye Bolts, Chisels, Chucks, Dies, Pipe Threading and Cutting Machines, Sanitary Fixtures, Shower Heads, Brass Siphons, Flush Pipe, Pipe Fittings, Cocks, Valves, Lock Nuts, Escutcheons, Steam Gauges, Engine Lubricators, Grease Cups, Oil Cups, Copper Funnels, Steel Lockers, Glass Vault Lights, Spark Plugs, Dry Cells, Thermometers, Cane Ship Fenders, Rubber Gaskets, Inner Tire Tubes and Blue Print Paper.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 16, 1916,** at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this circular (No. 1047) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

GOV WORK Ka sS

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal. — SEALED PROPROSALS, in triplicate, for constructing concrete Medical and Surgical Dispensary, including plumbing, heating, electric wiring and fixtures, at Letterman General Hospital, California, will be received here **until 11:00 A. M., June 12, 1916.** Further information on application . (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1044 — Proposals for Cargo Winches, Motor Generator Set, Oxy-Hydrogen Generating Outfit, Panel Boards, Switches, Fuses, Electrical Attachments, Conduit and Fittings, Moulding and Capping, Asbestos Paper, Friction Tape, Electrolyte, Cable Compound, Copper Connectors, Electric Cable, Magnet Wire, Brass Nuts, Brass Washers, Taps and Dies, Thermometers, Wire, Fencing, Bolts, Hinges, Manila Rope, Pencils, Glue, Mucilage, Copying Books, Index Cards, Manila Tags, Gummed Labels, Carbon Paper and Crash Toweling.—Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 9, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1044) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Provo, Utah, until **2 o'clock p. m. June 15, 1916,** for construction involving about 70,000 cubic yards of canal excavation, 11,000 cubic yards of rolled embankment, 3,500 cubic yards of excavation for structures, 1,500 cubic yards of reinforced concrete, and 700,000 square feet of canal lining. The work is located near Payson, Utah, on the Tintic Branch of the Denver and Rio Grande Railroad. For particulars address the U. S. Reclamation Service, Washington, D. C.; Denver, Colo., or Provo, Utah. A. P DAVIS, Chief Engineer.

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Hermiston, Ore., until **2 o'clock p. m. June 15, 1916,** for canal enlargement, Umatilla project. The work consists of widening about 20 miles of canal and involves the excavation of about 168,000 cubic yards of material and the placing of about 270 cubic yards of concrete. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Hermiston, Ore. A P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

RECLAMATION WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Malta, Mont., until **2 o'clock p. m. June 22, 1916,** for earthwork and structures, Bowdoin Canal, Milk River project, involving about 134,000 cubic yards of excavation, 220 cubic yards of reinforced concrete, 450 square yards of paving, the placing of 14,000 pounds of reinforcement steel and the placing in wooden structures of about 50,000 feet, b. m. of lumber. The work is located about 15 miles east of Malta, Mont., near Bowdoin Station on the Great Northern Railway. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or Malta, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR RECLAMATION WORK.

CONSTRUCTION WORK, NO. 3235—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until **June 15, 1916,** for construction involving about 70,000 cubic yards of canal excavation, 11,000 cubic yards of rolled embankment, 3,500 cubic yards of excavation for structures, 1,500 cubic yards of reinforced concrete, and 700,000 square feet of canal lining. Further information may be obtained on application to the United States Reclamation Service, Washington, D. C., Denver, Colo., or Provo, Utah.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 15, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M. June 21, 1916,** for the construction complete of the United States post office and customhouse at Douglas, Ariz. Drawings and specifications may be obtained from the custodian of site the discretion of the Acting Supervising Douglas, Ariz., or at this office, Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

NOTICE TO BIDDERS.

PURSUANT to an order of the Board of Supervisors of the County of Stanislaus, State of California, made and entered on the 10th day of May, 1916, notice is hereby given that sealed bids will be received by the undersigned Clerk of the said Board up to and not later than the hour of **2 p. m. of the 13th day of June, 1916,** for the construction of a reinforced concrete bridge over the Tuolumne River, near the City of Modesto, Stanislaus County, California, in accordance with the plans and specifications on file in my office, where the same can be inspected by intending bidders during office hours.

All bids must be accompanied by a certified check on some solvent bank of the State of California, in a sum equal to ten per cent of the amount bid, conditioned that the successful bidder will enter into such contract and furnish such bond as may be required within ten days after such award or failing so to do will forfeit the amount of such check as liquidated damages for such failure.

Bids to be submitted on special forms, which can be obtained from the County Clerk.

The Board reserves the right to reject any or all bids.

H. BENSON,
Clerk of the Board of Supervisors of the County of Stanislaus, State of California.

PROPOSALS FOR BOILERS.

TREASURY DEPARTMENT, Office of the Supervising Superintendent of Construction, Room 402, U. S. Post Office Building, San Francisco, Cal.—Sealed proposals will be received at this office until **12 o'clock m., on June 12, 1916,** and then publicly opened, for repairs to heating plant (installation of

rew boilers) at the U. S. Marine Hospital Station, San Francisco, Cal., in accordance with the drawing and specification, copies of which may be had upon application at this office or the office of the Custodian of the Station. J. W. ROBERTS, Supervising Superintendent.

NOTICE TO CONTRACTORS.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Mason, Cal.—SEALED PROPOSALS in triplicate; for constructing Concrete Ward, including plumbing, heating, electric wiring, fixtures and fire alarm system at Letterman General Hospital, California, will be received here until **11 A. M., June 8, 1916,** and then opened. Further information on application. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on June 26, 1916,** at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

San Mateo County, from Beresford to Redwood City (IV-S. M.-2-B), about 4.2 miles in length, to be paved with Portland cement concrete.

Ventura County, from Springville to Santa Clara River (VII-Ven-2-C), about 5.6 miles in length, to be paved with Portland cement concrete.

Humboldt County, from Loleta to Beatrice (1-Hum-1-G), about 4.3 miles in length, to be paved with Portland cement concrete.

Shasta County, between Baird and Antler (II-Sha-3-C), a reinforced concrete bridge about 120 feet long across Salt Creek, and a reinforced concrete bridge about 541 feet long across the Sacramento River.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made or a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: May 25, 1916.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received by W. F. McClure, State Engineer, Forum Building, Sacramento, California, **up to and including 12 o'clock, noon, Monday, June 19th, 1916, said bids then and there to be publicly opened and read for furnishing all plant, materials, and labor, and doing the work required for the complete construction and erection of the "Two Physicians' Cottages," Stockton State Hospital, Stockton, California,** in accordance with the plans and specifications therefor, copies of which may be obtained on application to the State Department of Engineering, Sacramento, California.

Such bids will be received for the Entire Work, and must be submitted on forms prepared and furnished by the State Department of Engineering.

Cash, a bidder's bond, or a certified check in the sum of ten per centum (10%) of the amount of the bid must accompany each bid.

A deposit of Fifteen ($15.00) Dollars will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications to the State Department of Engineering, at Sacramento, California, in good condition.

The State Department of Engineering reserves the right to reject any and all bids and to waive any informality in any bid received.

All bids must be addressed to W. F. McClure, State Engineer, Sacramento, California, and plainly marked on the envelope: "Proposal for 'Two Physicians' Cottages,' Stockton State Hospital, Stockton, California."

[SIGNED] W. F. McCLURE,
State Engineer. (*)

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the Office of Indian Affairs, Department of the Interior, Washington, D. C., until **June 13, 1916,** marked "Proposals for Hospital Building, Hoopa Valley School, California," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," for furnishing materials and labor for the construction of a frame hospital building, in accordance with the plans, specifications, and instructions to bidders, which may be examined at the United States Indian Warehouse at Chicago, Ill., San Francisco, Cal., St. Louis, Mo., and Builders' Exchange, St Paul, Minn., and at the office of the Superintendent of the Hoopa Valley School, Hoopa, Cal. Further information may be had on application to the superintendent of the above-named school. (*)

STRENGTH AND STIFFNESS OF MILD STEEL.

URBANA, Illinois.—An investigation to determine the laws governing the strength and stiffness of mild steel when subjected to combined stresses at right angles to each other has just been completed by Albert J. Becker of the Engineering Experiment Station, University of Illinois. The specimens tested were made of drawn steel tubes of uniform size and thickness. These tubes were subjected to an axial load, either tension or compression, and to internal pressure.

The results show that with changing relative values of the biaxial stresses the yield-point strength follows the maximum strain theory until the value of the shearing stress reaches the shearing yield point, then the shearing stress controls according to the maximum shear theory. Thus there are two independent laws each dominant within proper limits instead of any single law as has heretofore been assumed.

The investigations of Mr. Becker are described in Bulletin No. 85 of the Illinois Engineering Experiment Station, W. F. M. Goss, Director, Urbana, Illinois.

A BRAIDED STREAM.

A river not confined to a single channel but broken up into a number of channels, which in turn branch and unite in a complex and confusing manner, is called a braided stream. It is caused by the slight fall of the stream, which prevents it from carrying away all the sediment swept into it by its numerous tributaries. This material chokes the stream and forces it to spread into many shallow and shifting channels, resembling the strands of a braid. A good example of this is Jefferson River, Montana. (United States Geological Survey.)

S. F. Lumber Yards Effected By Strike.

No Lumber Delivered Since Thursday And No Relief in Sight. Building Construction Paralyzed.

As a result of the Longshoremen's strike lumber yards and mills in San Francisco have been forced to close and starting Friday morning no lumber has been delivered to any construction jobs now underway in the City and County. How long this condition will prevail is not known at this time as the Lumbermen's Association is still in session. Should the strike continue a matter of but a few days, it will effect all branches of the building world.

The following is a signed statement given out by the San Francisco Lumbermen's Association:

TO THE PRESS:

The following notice was mailed by the Riggers' & Stevedores' Union to all Lumber Yards, and was received by the Lumber Yards on Wednesday morning, May 30th.

The demands, you will notice, were to go into effect the following day, viz., June 1st, at 6 A. M. Note these demands are not signed, nor bear any official stamp of the organization sending same.

"INTERNATIONAL LONGSHOREMEN'S ASSOCIATION."

Pacific Coast District.
Wage Scale and Working Rules.

The rate of pay for handling general cargo shall be 55c per hour for straight time and $1.00 per hour for overtime work.

The rate of pay for handling explosives shall be $1.00 per hour straight time and $1.50 per hour for overtime work.

The rate of pay for packing all sacks weighing 150 pounds and over shall be $1.00 per hour straight time and $1.50 per hour for overtime work.

The rate of pay on all salvage work shall be $1.00 per hour straight time and $1.50 per hour for overtime work.

Pay to start from the time of leaving and to continue during the return journey.

Transportation, meals and lodging must also be provided.

Salvage work to mean any ship that has been on fire, stranded, in collision or leaking, or where the cargo is in any way damaged or in an offensive condition.

The above rate of pay to apply on all work in connection with such ship.

The rate of pay for loading lumber and by-products shall be 60c per hour straight time and $1.00 per hour for overtime work.

Side runners, double winch drivers, donkey drivers, hatch tenders and boom men shall receive 70c per hour straight time and $1.10 per hour for overtime work.

The rate of pay for creosoted lumber shall be 70c per hour for straight time and $1.10 per hour for overtime work.

Side runners, double winch and donkey drivers, hatch tenders, boom and sling men shall receive 80c per hour for straight time and $1.20 per hour for overtime work.

Donkey drivers to be allowed one hour each day for getting up steam, same to be paid at the overtime rate.

These rates of pay shall apply to lumber on general cargo vessels, on quantities of 10,000 feet or more.

The rates of pay for all checkers shall be 40c per hour straight time and 60c per hour for overtime work.

All crane men, donkey drivers, double winch drivers shall receive 10c per hour more on all work, over the prevailing rate of pay on general cargo.

The rate of pay for steady lumber clerks and hoop-horse drivers shall be $4.50 per day, and 75c per hour for all overtime work.

$4.50 per day, and 75c per hour for all work performed between the hours of 12 noon and 1 P. M., and between the hours of 5 P. M. and 7 A. M., and for all work on all Sundays and all legal holidays.

Employees shall be paid from the time they are ordered to report for work.

If upon reporting for work they find that there is no work and they are not needed, they shall receive two hours pay, or in case there is not two hours work they shall receive two hours pay at the prevailing rate.

After starting work all employees shall be paid for all standing by time.

Should the employer desire to discharge any employees within two hours after the time at which they are ordered to report for work, he may do so, but the employees so discharged shall receive two hours pay at the prepailing rate.

Nine hours work shall constitute a days work.

Day time work shall be from 7 A. M. to 12 noon, and from 1 P. M. to 5 P. M.

No gang shall work with less than eight men in the hold.

All vessels using a burton shall employ a hatch tender in addition to a burton man.

All work within the jurisdiction of the Pacific Coast District of the I. L. A. shall be done under closed shop conditions.

All locals or members receiving more wages or having better conditions than are herein set forth, shall retain same and they shall not be subject to change or alteration.

All the rates of pay and conditions herein set forth go into effect at 6 A. M. June 1st, 1916.

The undersigned employers hereby accept all the conditions above set forth in respect to wages and employment of members of the Pacific Coast District of the International Longshoremen's Association.

(Signed).....

.....

On Thursday morning, without any notice, all the men employed in our lumber yards walked out, including men not effected by the above notice. The result is that at this time the lumber yards are all closed, and will remain closed until further developments.

(Signed) A. B. JOHNSON, Chairman.

(Signed) C. M. ELLIOT,

PIERCE-BOSQUIT

Abstract & Title Co.

CAPITAL STOCK, $100,000

Sacramento, Placerville, Nevada City, Reno

SACRAMENTO OFFICE

ROSS E. PIERCE - Manager

905 Sixth Street

LOSSES DUE TO POOR AMERICAN PACKING.

In spite of the many admonitions to American shippers there are still a few who seem not to comprehend the seriousness of insufficient packing. An importer of Palermo, Italy, requested the American consul to accompany him to the customhouse to attend the opening of 10 cases of leather, inasmuch as the insurance and steamship companies refused to accept any responsibility for the goods, because the bill of lading was marked "old cases." In the interest of the American firm, the consul went to the customhouse and found that 5 of the 10 cases has been broken and repaired. They were about 5 by 3 by 3 feet in size and contained about 1,000 pounds of tanned hides wrapped in bundles of 6 skins each. Around each end was a small iron band but across the end there were no cleats and no bands, nor were they reinforced in the center. From each of the several boxes that were damaged there were missing one or more bundles of skins, a total loss amounting to $345. The ends of the boxes being broken, it was an easy matter for the thieves to pull out one or more bundles unobserved. Had there been cleats nailed across the ends with iron bands passing over lengthwise, it would have been difficult to extract goods.

A shipment from the same firm about a month previous was also damaged, and there were goods missing from those cases. Such occurrences cause difficulties in extending American trade, as they frequently not only result in loss of the customer for the manufacturer concerned but also deter the importer from buying from other American firms.—Commerce Reports.

AMERICAN MACHINERY FOR CHINESE IRON WORKS.

PEKING, China.—In order to increase the output of pig iron, the Han-Yeh-Ping Co. has decided to build a branch iron works at Tayeh after the model of the Iron Works of Hanyang. The Peking Daily News reports that the new machinery has been purchased from an engineering company of Washington and that it will be transported to China very soon. It is said that owing to the increased demand for iron the company was very prosperous last year. It is believed that its business will be even better this year.

FAST ELECTRIC TRAINS TO Sacramento

LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

OAKLAND, ANTIOCH & EASTERN RAILWAY

Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. P.; People's Express Co., Oakland.

The Scenic Line

Direct to

Sacramento, Dixon, Woodland, Marysville, Colusa, Gridley, Oroville and Chico.

Automatic Block Signals.

Observation Cars.

Rock Ba lasted road-bed.

Through observation car service between Chico, Marysville and Bay Cities in connection with Northern Electric Ry.

Write for descriptive folder.

Oakland Antioch & Eastern Railway

San Francisco Depot Key Route Ferry

CABINET MAKERS.

Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCE — 2 story and base, frame, $2,500. San Francisco. Architect, none. Owner, Eric Dahlberg, 249 Noe street, S. F. Location, east 23rd avenue south of Lincoln. Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some elm panels. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $18,000. San Francisco. Architect, Eugene K. Martin, 2192 Shattuck avenue, Berkeley. Owner, Mr. Giselman. Location, Presidio Terrace. Will contain twelve rooms, three baths and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors Hot water heating system, hot water circulating system and vacuum cleaning. Bath room tile. Open fire places and tile or brick mantels. Exterior covered with cement plaster. Clay tile roof. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. San Francisco. Architect, none. Owner, N. F. Nilsson, 355 Coleridge street, S. F. Location, south Rivera west of 21st avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $10,000. San Francisco. Architect, John J. Foley, 46 Kearny street, S. F. Owner, W. A. Buster. Location, 12th avenue and Anza. Will contain ten rooms, two baths and basement garage. Interior finish red gum and white enamel with some hardwood veneer. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile and equipped with showers. Automatic water heater. Exterior covered with cement plaster. Clay tile and shingle roof. Plans complete and figures to be called for shortly.

RESIDENCE — 2 story and base, frame, $9,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, Mr. Grant. Location, Forest Hill. Will contain nine rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Hot air heating with gas burning furnace. Bath rooms tiled in tile and equipped with showers. Automatic water heater. Open fire places and tile mantels. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $2,000. San Francisco. Architect, none. Owner, Victor Gullmes, 1828 Castro street, S. F. Location, north Rolph west of Madrid. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with shiplap and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—4 story and base. Class C construction, $25,000. San Francisco. Architect, W. G. Hind, 46 Kearny street, S. F. Owners, Mealey & Collins. Location, southwest Powell and Washington streets, covering an area of 36½ by 60 feet. Will contain two stores on the ground floor and a total of 12 apartments of two and three rooms on the upper three floors. Interior finish pine, hardwood and white enamel. Hardwood floors, steam heat, hot water system and wall beds. Bath rooms finished in tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated figures being taken.

APARTMENT HOUSE—5 story and base. Class C construction, $60,000. San Francisco. Architects, Lapachet & Larsen, 110 Sutter street, S. F. Owner, Metropolis Investment Co. Location, northwest Post and Leavenworth streets, covering an area of 60 by 70 feet. Will contain four stores on the first floor and a total of 30 apartments of twoa, three and four rooms on the upper floors. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, automatic elevator, hot water supply and vacuum cleaning. Wall beds. Bath rooms tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and segregated and general fig-

APARTMENT HOUSE—3 story and base, frame, $14,000. San Francisco. Architects, Falch & Knoll, Hearst Bldg., S. F. Owner, A. Loschano. Location, north Sutter east of Fillmore. Will contain one large store and a total of nine apartments arranged in suites of two, three and four rooms. Interior finish pine and white enamel. Hardwood floors. Steam heat and oil burning system. Bath rooms tile. Wall beds. Patent store fronts and marble bases. Exterior covered with cement plaster Plans complete and contract awarded to Higginson Co.

APARTMENT HOUSE—3 story and base, frame, $20,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, Laura M. Jordan. Location, north Clay west of Hyde. Will contain twelve apartments of two and three rooms. Hardwood floors. White enamel and pine trim. Steam heat and oil burning system. Hot water supply. Bath rooms tile. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $25,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner, William G. Gilmour, 180 Jessie street. Location, northeast Howard and Seventh streets. Will contain one store and a total of 32 apartments arranged in suites of two rooms and bath. Interiors will be finished in pine and redwood. Some hardwood floors. Steam heat and hot water system. Oil burning equipment. Bath rooms composition. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $35,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owners, French California Wine Association. Location, northeast corner of Powell and Pacific streets. Will contain two stores on the ground floor and a total of thirty apartments of two, three and four rooms on the upper floors. Interior finish pine and white enamel with some elm panels and hardwood floors. Steam heat and hot water system. Coal burning furnace. Bath rooms finished in tile. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, none. Owners, S. A. Born Building Co., 560 Market street, S. F. Location, Lincoln Manor. Will contain seven rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms tile. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FLATS—2 story and base, frame, $30,000. San Francisco. Architect, Bernard J. Joseph, Call Bldg., S. F. Owner, David Bibbero Location, south Pacific east of Baker. Will contain two large residential flats of nine rooms and three baths each. Interiors will be finished in hardwood and white enamel with hardwood floors throughout. Bath rooms will have tile floors and wainscot. A hot water heating system, oil burning plant and hot water circulating system will be installed. There will be open fire places and marble mantels. A basement garage is provided. Exterior will be covered with cement plaster. Contracts for the heating and excavating have been awarded. Bids are now being taken for the balance of the work.

FLATS—3 story and base, frame, $7,000. San Francisco. Architects, Fabre & Bearwald, Merchants' National Bank Bldg., S. F. Owner, F. Alliguie. Location, south Jackson east of Mason. Will contain three flats of five rooms and bath. Interiors will be finished in pine with some hardwood veneer and white enamel. Hardwood floors will be used in the principal rooms. There will be open fire places and tile or brick mantels. Bath rooms tile and composition. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame, $5,000. San Francisco. Architect, none. Owners, Hemminga Bros., 1600 Fell street, S. F. Location, north California

east of 15th avenue. Will contain two flats of five rooms and basement rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and work to be done by Day Labor.

FLAT AND STORES—2 story and base, frame. Cost not stated. San Francisco. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owner, M. Sinclair. Location, 23rd avenue and California. Will contain a store on the first floor and two small flats above. Interior finish will be of pine and redwood. Some hardwood floors. Open fire places. Mantels tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and figures being taken.

FIRE HOUSE—2 story and base. Class C construction, $25,750. San Francisco. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Location, Mint avenue near Mission street. Will contain apparatus room and work room on the first floor and living quarters for the crew on the upper floor. Interior finish pine and hardwood with some hardwood and cement floors. Special plumbing fixtures, showers and tile bath rooms. Steam heat, oil burning plant and special electric work. Exterior faced with pressed brick. Plans complete and figures being taken by the Board of Public Works. Bids open on June 14th.

BAKERY ALTERATIONS — Brick construction, $2,000. San Francisco. Architect, none. Owners, Crocker Estate Co., Crocker Bldg., S. F. Location, 245 Bush street. Work will consist of interior alterations, mill work, plumbing, painting, plastering and electric work. Plans are complete and work will be done by Day Labor.

SCHOOL—3 story and base, steel frame and brick, $145,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners City and County of San Francisco. Location, 20th street between Texas and Missouri. To be known as the Daniel Webster School and will contain sixteen class rooms, departments for manual training and domestic science, library teachers's rooms, principal's office and auditorium seating 400 people. Interior finish pine with maple floors. Steam heat, oil burning system, vacuum cleaning and program clocks. Marble and tile wainscot. Slate blackboards. Exterior faced with pressed brick. Fireproof stairways. Plans complete and figures being taken. Bids to be opened by the Board of Public Works on June 14th.

CHURCH—2 story and base, brick and frame $8,000. San Francisco. Architect, W. J. Wythe, Central Bank Bldg., Oakland. Owners, Italian Methodist Church. Location, southeast corner of Greenwich and Powell streets. Designed in the Spanish Colonial style, and will contain main auditorium. Sunday school rooms and pastor's study. Interior finish pine with some ornamental plaster. Art glass windows. Exterior faced with cement plaster or pressed brick. Plans being prepared.

HOSPITAL DISPENSARY—2 story, reinforced concrete. Cost not stated. San Francisco. Architect, Constructing Quartermaster Office, Fort Mason. Owners, United States Government. Location, Letterman General Hospital, Presidio of San Francisco. Will cover an area of 90 by 60 feet. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Special cabinets. Steam heat from central system. Hot water supply. Clay tile roof. Exterior faced with cement plaster. Plans complete and figures being taken. Bids close on June 12th at 11 a. m. An official proposal appears in another column of this issue.

HOSPITAL LIGHTING FIXTURES—$985. San Francisco. Architect, August G. Headman, Call Bldg., S. F. Owners, City and County of San Francisco. Bids opened for lighting fixtures for the pathological ward at the San Francisco Hospital show Ickelheimer Bros. low at $985. They will probably be awarded the contract.

STORE AND OFFICE ALTERATION —4 story and base. Class C construction, $25,000. San Francisco. Architect, J. R. Miller, Lick Bldg., S. F. Owners, City Investment Co. Location, southeast Market and Fremont streets. Work will consist of rearranging the present interior partitions for modern offices, new store fronts and some exterior work. Plans are complete and segregated figures are being taken.

City Bids Opened.

Three Bids Received by San Francisco Board of Public Works For Lighting Fixtures.

Ickelheimer Bros. presented the lowest bid for the lighting fixtures to be installed in the Pathological Ward at the San Francisco Hospital at $985 and will be awarded the contract. Bids were opened at the regular Wednesday afternoon meeting of the San Francisco Board of Public Works. Plans were prepared by Architect August G. Headman, Call Bldg. Following is a complete list of the bids received:

Lighting Fixtures Pathological Ward, S. F. Hospital.

Leo J. Meyberg	$1,033
Ickelheimer Bros.	985
Thomas Day Co.	1,075

OAKLAND AND ALAMEDA COUNTY

RESIDENCE — 2 story and base, frame, $7,000. Oakland, Cal. Architect, William R. Hanna. Owner, A. Howkins, 4424 Pampas avenue, Oakland. Location, north Courtland avenue west of High street. Will contain seven rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, $2,500. Oakland, Cal. Architect, none. Owner, R. Cormack, 580 39th street, Oakland. Location, south Rich west of Webster. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. Goranson, 431 48th street, Oakland. Location, east Laguna south of Hopkins. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, W. F. Neary, 1723 Telegraph avenue, Oakland. Location, east View street north of Mather. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, none. Owners, E. & A. Co., Syndicate Bldg., Oakland. Locations, east Laguna north of Montana. Each dwelling will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,250. Berkeley, Alameda Co., Cal. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, John Hood. Location, Santa Barbara north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figues being taken.

RESIDENCE — 2 story and base, frame, $3,200. Oakland, Cal. Architect, none. Owner, S. V. Nichols, 2217 Parker street, Berkeley. Location, north 4th avenue west of Greenwood. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, D. J. Horgan. Location, Cragmont. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and hardwood. White enamel in the bed rooms. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $8,500. Berkeley, Alameda Co., Cal. Architect, Henry H. Gutterson, 278 Post street, S. F. Owner, Robert McDuffie. Location, Arlington street. Will contain eight rooms, two baths

and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, F. Holberg Reimers, 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, Buena Vista avenue. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame, $3,500. Berkeley, Alameda Co., Cal. Architect, John J. Foley, 46 Kearny street, S. F. Owner's name withheld Location, Claremont. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $3,000. Berkeley, Alameda Co., Cal. Architect, none. Owner, Herbert F. Kern, 1326 Arch street, Berkeley. Location, west San Benito avenue, between Spruce and Marin. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Albany, Alameda Co., Cal. Architect, none. Owner, James Clark. 651 London street, S. F. Location, west Madison north of Buchanan. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $1,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, F. W. Batdorf, 1736 Milvia street, Berkeley. Location, east Milvia north of Berkeley. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ROCK AND SCREENNGS—Cost not stated. San Leandro, Alameda Co., Cal. Engineer, City Engineer, San Leandro. Owners, City of San Leandro. Bids will be received up to June 19th at 8 p. m. for supplying rock and screenings to the city of San Leandro for the year ending June 30th, 1917.

STREET IMPROVEMENT—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. For the second time bids received by the Alameda City Council for street work have been returned to the bidders unopened. There were six bids for improvement of Central avenue. The engineer was instructed to prepare new plans for the work. New bids will be called for in about a month.

STREET IMPROVEMENTS — Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on June 15th for street improvements ordered under the following resolutions: That 45th avenue, from the southwest line of East 14th street to a line parallel to and distant 50 feet northeast from the northeast line of East 10th street, and the crossing of East 10th street with 45th avenue, each be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also that a vitrified pipe conduit, having an internal diameter of 12 inches, be constructed in 45th avenue from the northeast line of East 10th street to the existing water course crossing said 45th avenue about 340 feet southwest of East 10th street, said conduit to be located parallel to and distant 13 feet southeast from the northwest line of 45th avenue; also that a brick manhole with a cast iron top be constructed at the northeast end of said conduit; also that a corrugated iron and concrete culvert having two branches be constructed in the crossing of East 12th street with 45th avenue.

That a sewer, having an internal diameter of 8 inches, be constructed along the center line and its production of Harvey avenue, from the center line of 57th avenue to a point distant 543 feet northwest therefrom, measured along said center line of Harvey avenue; also that a brick manhole with cast iron top be constructed at the southeast end of said sewer; also that a lamphole of brick with cast iron top be constructed at the northwest end of said sewer; also that Y branches, each having 5-inch openings, be constructed on said sewer so as to provide one branch for each 25-foot lot and fractional lot remaining, into which the abutting property frontage is capable of being divided. Said sewer, Y branches and lampholes (excepting the top thereof) shall be constructed of vitrified sewer pipe.

That a sewer, having an internal diameter of 8 inches, be constructed along the center line of D street, from the center line of 88th avenue to a point distant 200 feet southeast therefrom, measured along said center line of D street; also that a lamphole, having a top of brick and cast iron, be constructed at the southeast end of said sewer; also that Y branches, having 5-inch openings, be constructed on said sewer so as to provide one such branch for each 25-foot lot and fractional lot remaining, into which the abutting property frontage is capable of being divided. Said sewer, Y branches and lamphole (excepting the top thereof) shall be constructed of vitrified sewer pipe. For further particulars address Board of Public Works, Oakland, Cal.

APARTMENT HOUSES—2, 3 story and base, frame. Cost not stated. Oakland, Cal. Architects, Sidney B. and Noble Newsom, Nevada Bank Bldg., S. F. Owner, J. M. Booth. Location, southeast corner of 10th and Oak Sts. Each will contain a number of two and three room apartments with private baths and wall beds. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Steam heat and oil burning plant. Bath rooms tile. Exteriors covered with cement plaster and rustic. Plans complete and in the hands of the owner who is now taking figures.

RESIDENCE — 2 story and base, frame, $7,500. Oakland, Cal. Architect, E. W. Cannon, Central Bank Bldg., Oakland. Owner, Mrs. E. M. Woodward. Location, Claremont Crescent Tract. Will contain nine rooms, three baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile or brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner, Mr. Adney. Location, Fourth Avenue Heights. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood veneer. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

GARAGE—1 story and base, brick, $5,000. Oakland, Cal. Architects, Thomas & Oliver, Pantages Bldg., Oakland. Owner, S. C. Booth. Location, 36th and Telegraph. Designed for a commercial garage and will contain office, storage space and machine shop. Interior finish pine. Cement floor. Special gasoline storage tanks. Metal window sash and frames. Exterior faced with pressed brick. Plans complete and figures being taken.

LIBRARY LIGHTING FIXTURES — Cost as follows. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Thomas Day Co., San Francisco, submitted the lowest figure for furnishing the lighting fixtures for the University Library at $17,446.70 for proposition 1 and $11,653.06 for proposition 2. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

Figures Received For Lighting Fixtures.

Thomas Day Co. Present Lowest Figures for Furnishing Lighting Fixtures for U. C. Library.

Eight sets of figures were received Wednesday, May 31st by the Regents of the University of California for furnishing and installing lighting fixtures in the library building on the Berkeley Campus.

Thomas Day Co. presented the lowest bid at $17,466.70 for Proposition A, and $11,653.06 for Proposition B. Bids were taken under advisement. Following is a complete list of the bids received:

Lighting Fixtures For U. C. Library.

	Prop. A	Prop. B
E. A. Mantell.....	$22,704.00	$17,546.00

Thos. Day Co.....	17,446.70	11,653.06
Ickelheimer Bros...	23,000.00	14,200.00
Maxwell Hdw. Co...	24,400.00	14,350.00
Bradshaw Elec. Co..	26,963.00	16,900.00
Spott Bros.....	29,933.24	15,181.43
Leo J. Meybery.....	23,800.00	15,900.00
Roberts Mfg. Co....	21,323.00	14,941.00

SAN JOSE AND THE SANTA CLARA VALLEY

DRAINAGE SYSTEM—Cost not stated. Mayfield, Santa Clara Co., Cal. Engineer, W. H. Myrick, Mayfield. Owners, Town of Mayfield. The Mayfield Board of Trustees at its last meeting instructed W. H. Myrick, deputy superintendent of streets, to prepare plans and specifications for the proposed drainage system for Mayfield. Further mention will be made of this work when the plans have been accepted by the Trustees.

RESIDENCE — 2 story and base, frame, $12,000. Santa Cruz, Santa Cruz Co., Cal. Architect, George McCrea, First National Bank Bldg., Oakland. Owner, Mrs. A. H. Munsell. Designed for a country home and will contain twelve rooms, three baths and sleeping porches. Separate garage. Interior finish hardwood and white enamel. Hardwood floors. Central heating system and open fire places. Mantels stone, tile and brick. Bath rooms tile. Hot water circulating system. Exterior covered with cement plaster. Plans complete and figures being taken from selected contractors only.

CHURCH—1 story and base, frame and plaster, $25,000. Palo Alto, Santa Clara Co., Cal. Architect, Elmer Grey, Los Angeles, represented by Architect Henry H. Gutterson, 278 Post street, S. F. Owners, First Church of Christ, Scientist. Designed in the classic style and will contain main auditorium, Sunday school rooms and rooms for the readers. Interior finish pine and ornamental plaster. Art glass windows. Hot air heating and coal furnace. Exterior covered with cement plaster. Plans in the hands of the San Francisco architect, who is letting all contracts.

Contracts Awarded

STREET PAVING—Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, City Engineer, San Jose. Owners, City of San Jose. Cantractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract price not stated.

SCHOOL—1 story, frame. Cost as follows. San Bruno, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owners, San Bruno School District. Contractor, R. C. Stickley, San Bruno. Contract price, $11,813. W. L Hickey, South San Francisco, plumbing and tining, $2,181.07.

Award Contracts For Two Redwood Schools.

W. D. Henderson of San Francisco Awarded Contract For Two New School Buildings. Designed by Architect Sexton.

A number of figures were received Friday night, June 2nd, for the construction of the Washington and Lincoln Schools, both one-story hollow tile buildings, designed by Architect N. W. Sexton, Merchants National Bank Bldg., San Francisco.

W. D. Henderson, Monadnock Bldg., San Francisco, submitted the lowest bid for the two schools combined, and was awarded the contract at $24,456. Gladding-McBean was awarded the contract for the tile roofs at $2,625.

Following is a complete list of the bids received:

Bidder	Wash.	Lincoln
W. D. Henderson.....	$13,253	$11,526
E. E. Etherton & Co.....	14,018	13,605
Morrison Bros.	13,651	14,023
Bert T. Owsley.....	13,533	12,287
Thomas Elam & Son....	14,265	12,550
Carahan & Mulford.....	13,228	11,475
Weeden Bros.	14,287	13,286
Monson Bros.	15,771	13,937
Howard S. Williams....	14,493	.....
Western Bldg. & Eng. Co.	15,260	13,720
Dreyfus Bros.	.....	13,362
E. G. Elliott.....	.....	14,428

Received Figures For San Bruno School.

Three Sets of Bids Received, One of Which is Rejected. All Bids Taken Under Advisement.

Bids were opened at the Wednesday night meeting of the San Bruno School Trustees for the construction of a one-story frame building to be erected in the San Bruno School District from the revised plans prepared by Architects Edwards & Norberg, Bank Bldg., Burlingame.

R. C. Stickles of San Bruno presented the low bid on propositions 1, 2 and 3 as follows: $11,813, $11,113 and $10,262.

R. S. K. MacMillen, San Francisco, presented the low figure on proposition No. 4 at $9,990. Bids were taken under advisement. Following is a complete list of the bids received:

San Bruno School.

R. C. Stickles, Prop. 1. $11,813; Prop. 2, $11,113; Prop. 3, $10,262; Prop. 4, $10,443.

R. S. K. MacMillen, Prop. 1, $12,307; Prop. 2, $11,582; Prop. 3, $10,907; Prop. 4, $9,990.

George S. Doring, Daly City, Prop. 1, $10,950; Prop. 2, $10,404; Prop. 3, $8,450; Prop. 4, $9,828. Note—Bids protested and withdrawn.

Plumbing and Tinning.

E. C. Cottier, San Mateo.....$2,293.00
W. L. Hickey, South S. F..... 2,181.07

MARIN, CONTRA COSTA AND SONOMA COUNTIES

RESIDENCE — 1 story and base, frame, $2,500. Vallejo, Solano Co., Cal. Architects, Universal Drafting Bureau, 1844 5th avenue, Oakland. Owner's name withheld. Will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

BRIDGE TIMBER—Cost not stated. Santa Rosa, Sonoma Co., Cal. Engineer, Count Surveyor, Santa Rosa. Owners, Sonoma County. Bids will be received up to June 13th at 12 o'clock noon for the construction of a 150-foot pile bent bridge, two 20-foot culverts and the grading of the proposed change in county road between Marin County and Sonoma County near Valley Ford.

STREET IMPROVEMENT—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer T. D. Kilkenney, Vallejo. Owners, City of Vallejo. Plans are being prepared by City Engineer T. D. Kilkenney for the paving of the alley between Sonoma and Branciforte and Virginia and Capitol streets. It is probable that the pavement will consist of concrete, over which is spread a wearing surface of an inch and one-half of Topeka dressing. Bids will be called for within the next few days.

STREET IMPROVEMENTS—Cost as follows. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. At the last meeting of the City Council bids for the improvement of Laurel street were opened. H. C. Mullett bid $2,372.65 and George E. Errington bid $2,631.78. The awarding of the contract was laid over for a week. Bids were also opened for the improvement of Seymour street. F. A. Burge bid $1,724.88 and George E. Errington bid $1,725.87. F. A. Burge, Alta Heights, Napa, was awarded the contract.

STREET IMPROVEMENTS—$11,000. Vallejo, Solano Co., Cal. Engineer, City Engineer T. D. Kilkenney, Vallejo. Owners, City of Vallejo. The grading and paving of two of the principal alleys is to cost over $11,000, according to the estimate of cost submitted to the City Council by City Engineer T. D. Kilkenney. Plans and specifications for the improvement of Hudson alley, from Sonoma to Monterey, and Jeffery alley, from Branciforte to Sonoma, were submitted to the Council and adopted. Hudson alley, which is between Georgia and York streets, is to cost $6,188.40, this amount to include the construction of a sewer in that alley. Jeffery alley, which is between Virginia and Capitol streets, is to cost $5,114.50. The specifications provide for a pavement of plain concrete in each alley, except that on the grades in Hudson alley the concrete will be corrugated. Bids will be called for shortly on this work.

FILL—Earth. Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, City Engineer Chapman, Richmond. Owners, City of Richmond. Only two bids were received by the City Council for a fill of 10,000 cubic yards on the approach to the municipal wharf, as follows: Moffett & Meade, $6,100; Blake Bros., $3,800. No contract was awarded.

WAREHOUSE—1 and 4 story, steel and brick. Cost not stated. Crockett, Contra Costa Co., Cal. Architect, William H. Crim, Jr., 425 Kearny street, S. F. Owners, California-Hawaiian Sugar Co. Will cover an area of 750 by 75 feet with a central portion four stories high, covering an area of 60 by 60 feet. Carried on pile foundation, contract for which has been awarded to the Clinton Construction Co. Other parts of the work to be sublet later. Exterior faced with stock brick. Plans complete.

RAILROAD STATION ADDITION—1 story, frame, $3,180. Richmond, Contra Costa Co., Cal. Engineer, none. Owners, Atchison, Topeka & Santa Fe Railroad Co., 673 Market street, S. F. Lo-

cation, Macdonald avenue and Ashland. Will contain a waiting room and ticket office. Interior finish pine and redwood. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SCHOOL—1 story and base, frame and plaster, $18,000. Richmond, Contra Costa Co., Cal. Architect, J. B. Ogborn, 611 Macdonald avenue, Richmond. Owners, Lincoln Grammar School District. Location, 10th street, covering an area of 190 by 60 feet. Will contain six rooms and assembly hall. Interior finish pine with some maple floors. Central heating system. Oil burning furnace. Exterior covered with cement plaster. Plans being prepared.

Contracts Awarded

SCHOOL ADDITION—1 story, frame, $2,997. Pittsburg, Contra Costa Co., Cal. Architect, William Knowles, Hearst Bldg., S. F. Owners, City of Pittsburg. Contractor, D. H. MacQuiddy, Pittsburg. Contract price, $2,997.

Award Contract For Pittsburg School

Local Contractor Awarded Contract for Completion of Three Class Rooms. Only Two Bidders.

Only two bids were received by the Pittsburg Board of School Trustees for the completion of three class rooms in the Pittsburg School from plans prepared by Architect William Knowles, Hearst Bldg., San Francisco. Bids were opened at the Wednesday night meeting, May 31st.

A contract was awarded to D. H. MacQuiddy of Pittsburg for $2,997. J. O. Knykendall of San Francisco was the other bidder, his bid being $3,315.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

RESIDENCE — 2 story and base, frame, $3,500. Fresno, Fresno Co., Cal. Architect, none. Owners, Central California Land and Improvement Co Fresno. Location, La Sierra Tract. Will contain seven rooms, bath and sleeping porch. nterior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story , frame, $1,500. Fresno, Fresno Co., Cal. Architect, none. Owner, C. A. Clark, 451 Thesta, Fresno. Location, 3227 Nevada avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

DRAINAGE SYSTEM AND SANITARY SEWER SYSTEM — $500,000. Fresno, Fresno Co., Cal. Engineer, City Engineer B. E. Cronkite, associated with Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles. Frank Gillelen, of the engineering firm of Olmsted & Gillelen, has arrived in Fresno to start preparations for calling bids and awarding contracts for Fresno's sanitary sewer and storm water drainage systems. Bonds for the construction of these systems were voted a few weeks ago.

FILTER BED AND SYSTEM—Cost not stated. Reedley, Fresno Co., Cal. Engineer, City Engineer Chris P. Jensen, Reedley. Owners, City of Reedley. Bids will be opened on June 13th at 5 p. m. for the construction of a filter bed and system in and for the city of Reedley.

GARAGE—1 story, frame, $7,200. Fresno, Fresno Co., Cal. Architect, none. Owner, George Pickford, 845 P street, Fresno. Designed for a commercial garage and will contain storage space only. Exterior shiplap. Plans complete and work to be done by Day Labor.

CITY HALL—2 story and base, brick. Cost not stated. Coalinga, Fresno Co., Cal. Architect, W. J. Ochs, Coalinga. Owners, City of Coalinga. Location, northwest Sixth and E streets. Entire first floor will be occupied by the fire department. Council chamber and city offices will be located on the second floor. Interior finish pine. Central heating system. Fireproof vault. Exterior faced with pressed brick. Construction will not be started until bonds have been sold. Further mention will be made of the work.

HIGHWAY CONSTRUCTION — Cost not stated. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. The Clerk of the County Board of Supervisors has been directed to advertise for bids for the construction of 5½ miles of improved highway, from Guernsey to the Dallas school house, and 3 miles running due east of Guernsey. The bids close June 14th at 2 p. m. Plans and specifications together with full information may be had from the County Clerk.

STORES—1 story and base, brick, $20,000. Selma, Fresno Co., Cal. Architect, none. Owner, W. A. Burrell, Manhridge Apartments, Fresno. Will contain four modern stores. Interior finish pine, hardwood and tile. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans are being prepared.

Contracts Awarded

STREET IMPROVEMENTS — Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Contractor, F. W. Nighbert, 817 I street, Bakersfield. Contract price not stated.

SCHOOL—2 story and base, brick, $5,000. Tulare, Tulare Co., Cal. Architect, W. F. Bowen, Fresno. Owners, City of Tulare. Will cover an area of 32 by 62 feet. One class room and office. Interior finish pine. Exterior faced with stock brick. Plans being prepared.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

RESIDENCE—1½ story and base, frame, $3,500. Stockton, San Joaquin Co., Cal. Architects, Sala & Mayo, Commercial Savings Bank Bldg., Stockton. Owner, Mr. Robb. Location, Texido Park. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

BRIDGE—Reinforced concrete, $60,000. Nevada. Engineer, Engineering Department Salt Lake R. R. Co. Owners, Salt Lake Railroad Co. The Salt Lake Railroad will start work at once on a reinforced concrete arch bridge to replace the wood trestle over Clover Creek, Nevada, on the main line. The arch will be 93 feet span and 23 feet high. The structure will extend 18 feet below the bed of the stream and will have triangular heels 30 feet long, 18 feet deep and 20 feet wide at each end.

HIGHWAY CONSTRUCTION — Cost not stated. Sacramento, Cal. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be opened on June 26th at 2 p. m. for constructing the following State highways: San Mateo County—4.2 miles, Portland cement concrete; Ventura County—5.6 miles, Portland cement concrete; Humboldt County—4.3 miles, Portland cement concrete; Shasta County—2 reinforced concrete bridges, one 120 feet long over Salt Creek, and one 541 feet long over Sacramento River. An official proposal appears in another column of this issue.

SEWER CONSTRUCTION—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Commissioners have declared the certified check accompanying the bid of Leach & De Camp for sewer work in the city of Stockton forfeited. This was done by resolution. It is probable that new bids will be called for the work to be done.

SEWER CONSTRUCTION—Cost not stated. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. At the last meeting of the City Council plans and specifications were adopted for the construction of the main sanitary sewer along Fair Oaks avenue, from Marsh street to East street; along East street to Oak street; along Oak street to West street; along West street to Smith Canal, with branch from Union street from Acacia to Oak street. The system of sewers provided for by the Council will furnish the city with these main sewers connecting with the existing sewers in the Oaks, in Fair Oaks and intersecting the main sewers on El Dorado and Harrison streets. Bids are now being taken. Plans may be had from the City Clerk.

STREET IMPROVEMENT—Cost not stated. Dunsmuir, Siskiyou Co., Cal. Engineer, Town Engineer, Dunsmuir. Owners, Town of Dunsmuir. Bids will be received up to June 14th at 8 p. m. for paving of Florence avenue with concrete for a width of 15 feet from the south line of Ash street to the north line of Spring street, and from the north line of Willow street to the north line of Brandstetter street.

HIGHWAY CONSTRUCTION — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Bids will be received up to June 13th at 2 p. m. for grading and paving with concrete one-half mile of the county road leading out of the city of Eureka, from the city limits at Bucksport towards Elk River in Road District No. 4.

RESIDENCE — 1 story and base, frame, $1,500. Sacramento, Cal. Architect, none. Owner, Carl Koch, 330 Carmell street, Sacramento. Location,

012 34th street. Will contain five ooms, bath and sleeping porch. nterior finish pine and redwood with some white enamel. Hardwood floors. Open ire place and tile mantel. Exterior overed with cement plaster. Plans omplete and work to be done by Day Labor.

IRRIGATION WORK—Cost not stated. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. Bids have been ordered advertised by the directors of the Anderson-Cottonwood Irrigation District, up to July 1st for the concrete work in the proposed system now under construction, and for the construction of the Churn Creek syphon. These are the last of the bids to be asked in connection with the entire system, contracts for which have been let totaling $235,000. Plans and further information may be had from the secretary of the Board of Directors at Anderson.

MAUSOLEUM—1 story. Class A construction, $200,000. Stockton, San Joaquin Co., Cal. Architect's name not given. Owners, Stockton Mausoleum Association, represented by B. C. Wallace, Channel and 4th streets, Stockton. Location, Rural Cemetery. Will contain 2,000 receptacles and 7,000 urns. A large chapel and creamitory. Fireproof construction. Cement trim, urns. A large chapel and crematory. Bronze and art glass. Exterior faced with cement plaster, marble and granite. Plans being prepared.

SCHOOL—2 story and base, brick or reinforced concrete, $50,000. Tracy, San Joaquin Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, Tracy School District. Will contain twelve class rooms, an auditorium, departments for manual training and domestic science and teachers' room. Interior finish pine, hardwood floors and slate blackboards. Steam heat, oil burning plant and vacuum cleaning. Exterior faced with cement plaster or pressed brick. Plans being completed and bids to be called for shortly.

SCHOOL—1 story, frame, $10,000. Nelson, Butte Co., Cal. Architect, Chester Cole, Waterland Bldg., Chico. Owners, Nelson School District. Will contain three class rooms and an assembly hall. Interior finish pine with some maple floors. Exterior covered with cement plaster. Plans being prepared.

STORES AND GARAGE—1 story and base, brick, $15,000. Manteca, San Joaquin Co., Cal. Architect, Franklyn E. Warner, San Joaquin Bldg., Stockton. Owner, Dr. C. L. Six. Will cover an area of 200 by 75 feet and contain six stores and a commercial garage. Interior finish pine. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans are being prepared.

Contracts Awarded.

WEIR AND BRIDGE—Steel and reinforced concrete, $336,640. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, Teichert & Ambrose, Ochsner Bldg., Sacramento. Contract price, $326,640. This price includes both the bridge and weir.

STREET IMPROVEMENTS — Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contractors, McGillivray Construction Co., 1007 7th street, Sacramento. Contract price not stated.

APARTMENT HOUSE—3 story and base. Class C construction, $38,636. Sacramento, Cal. Architect, Walter H. Parker, 12 Geary street, S. F. Owner, Florence E. Atkinson. Contractor, Louis Cereghino & Son, 6 Maynard St., S. F. Contract price, $38,636.

APARTMENT HOUSE—4 story and base, brick. Cost not stated. Marysville, Yuba Co., Cal. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name not stated. Contractor, Joseph A. Lucas, 1604 V street, Sacramento. Contract price not stated.

IRRIGATION WORK—$60,828. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson. Owners, Anderson-Cottonwood Irrigation District. The directors of the Anderson-Cottonwood Irrigation District let five more contracts for construction work on the irrigation system. James Willison of Oakdale, who is at work on contracts aggregating $130,000, was the successful bidder on four contracts. The fifth went to Frank McIntire of Stockton. Willison is at work on the first twenty miles of the main canals. He was awarded the contract for the remaining fourteen miles — 185,000 cubic yards—at 13½ cents, or $24,975. He will also excavate lateral No. 21, passing through Anderson — 116,000 cubic yards at 11 cents, or $12,750. This lateral is between 12 and 13 miles in length. Laterals Nos 37 to 47 inclusive will be dug by Willison for $2,275. Willison received the contract also for constructing laterals Nos. 3 to 19, all on the west side, 48,000 cubic yards, at 13c, or $6,370. Frank McIntire of Stockton was the successful bidder on all the laterals in Churn Creek bottom. His price is 12.9c a cubic yard for 112,000 cubic yards, or $14,448 for the job. Two bids were received for constructing the Churn Creek siphon across the Sacramento River. These will be acted upon within the next few days.

LOS ANGELES & SOUTHERN CALIFORNIA.

BRIDGE—Reinforced concrete and steel. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Sealed bids will be received by the Clerk of the Board of Supervisors of Ventura County at his office in Ventura until 11 o'clock a. m June 15, 1916,, for the reconstruction of the south approach to the Saticoy bridge, across the Santa Clara River, one-half mile southeast of the town of Saticoy, Ventura County, Cal. The work consists of the construction of an earth fill approach approximately 700 feet long and the placing of 71 timber piles for protection, together with other incidental work. The approximate quantities of materials is as follows: Earth fill, 11,850 cubic yards; oil (70% asphaltum) 480 barrels; 20-foot timber piles, 71; grouted boulder facing, 20 cubic yards; barb wire, 20,000 linear feet; ⅜-inch galvanized wire cable (to be furnished by county), 5,400 linear feet; standard guard fence (material to be furnished by county), 1,460 linear feet. Plans and specifications are on file in the office of the Clerk of the Board of Supervisors, and in the office of the County Surveyor, to which bidders are referred.

STREET IMPROVEMENTS — Cost not stated. Upland, San Bernardino Co., Cal. Engineer, City Engineer, Upland. Owners, City of Upland. Bids will be received up to June 26th at 7.30 p. m. for improving Euedy street, between B street and a point 33 feet north of the south boundary of the city limits, and a portion of B street according to plans and specifications on file in the office of the City Engineer. The work consists of grading, and oiling with liquid asphaltum, covered with broken stone screenings, and stone curbs. Certified check or bond of 10 per cent. Charles P. Fuller, City Clerk.

CHURCH—1 and 2 story and base, brick, $55,000. Whittier, Los Angeles Co., Cal. Architect, H. M. Patterson, 321 O. T. Johnson Bldg., L. A. Owners, Friends Church. Location, Philadelphia and Washington streets. Will contain a main auditorium, seven Sunday school rooms, dining room and completely equipped kitchen. Interior finish pine with some ornamental plaster. Hot air heating system Exterior faced woth pressed brick trimmed with stone. Plans being prepared.

Contracts Awarded

STREET IMPROVEMENT—$23,852.15. Redondo Beach, Los Angeles Co., Cal. Engineer, City Engineer, Redondo Beach. Owners, City of Redondo Beach. Contractors, Highway Construction Co., Highland. Contract price, $23,852.15.

PORTLAND AND OREGON

RAILROAD CONSTRUCTION—$300,000. Roseburg, Ore. Engineer, L. G. Hicks, Roseburg. Owners, City of Roseburg. City Engineer L. G. Hicks has been instructed by the City Council of that place to prepare plans and specifications covering the construction of the proposed 20-mile railroad from Roseburg to Rock Creek. The taxpayers recently voted $300,000 in bonds to cover the cost of the work.

SEATTLE AND WASHINGTON

REFRIGERATING EQUIPMENT — $71,292. Seattle, Wash. Engineer, Port of Seattle Commission, Bell Street Dock, Seattle. Owners, City of Seattle. Bids opened by the Port of Seattle Commission for the refrigeration of the apple storage warehouse show the Vilter Manufacturing Co., Seattle, low on their bid of $71,292, with $5,950 to deduct for wood ducts.

DEPARTMENT STORE—5 and 7 story and base, reinforced concrete and steel, $1,000,000. Seattle, Wash. Architect, John Graham, Green Bldg., Seattle. Owners, The Frederick Nelson Co. Contractors, Black Construction Co., St. Louis. Contract price, $1,000,000.

Contracts Awarded

BRIDGE—Steel and reinforced concrete, $36,900. Seattle, Wash. Engineer, City Engineer, Seattle. Owners, City of Seattle. Contractors, Butler Construction Co., Central Bldg., Seattle. Contract price, $36,900.

GARAGE—2 story and base, reinforced concrete, $65,000. Seattle, Wash. Architect, H. Ryan, Northern Bank Bldg., Seattle. Owners, Winton Motor Car Co. Contractors, Warrack Construction Co., Downs Block, Seattle.

RAILROAD STATION—1 and 2 story, concrete and brick, $25,000. Pullman, Wash. Architect, none. Owners, tractors, Sound Construction and En- Northern Pacific Railroad Co. Congineering Co., Immigration Bldg., Seattle. Contract price, $25,000.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1661	Branagh	Branagh	1800
1662	Sarubeli	Smith	2500
1663	MacArthur	MacArthur	1700
1664	Russo	Jeffers	2200
1665	Hoots	Hoots	8500
1666	Floodberg	Cavanagh	400
1667	Melander	Melander	5250
1668	Lawson	Goericke	2500
1669	Union Iron	Decker	2477
1670	Hauser	McIntosh	2625
1671	Ferguson	Miller	6900
1672	Baker	Collins	450
1673	Stafford	Stafford	3800
1674	Webb	Parry	745
1675	Finance & Rlty Co.	Owner	——
1676	Same	Same	——
1677	Jordan	Jordan	20000
1678	Neil	Neil	1800
1679	Same	Same	1800
1680	McDonough	Costello	1400
1681	Holland	Comyns	450
1682	Dahlberg	Dahlberg	2500
1683	Graham	Braunton	800
1684	Shell Oil Co.	Owner	500
1685	Heyman	Heyman	1750
1686	Sugrue	Sugrue	1500
1687	Nilsson	Nilsson	2000
1688	Piazzo	Lee	2500
1689	Rulfs	Pasqualetti	1675
1690	Schoenfeld	Pasqualetti	860
1691	Malm	Caldwell	3150
1692	Smith	Wilson	1115
1693	Glynn	Glynn	1785
1694	Gilmour	Gilmour	20000
1695	Richardson	Fernsworth	400
1696	Crocker	Crocker	2000
1697	Swanson	Swanson	850
1698	Todhunter	Todhunter	2400
1699	Schrader	Trifelitti	400
1700	Denigan	Haun	400
1701	Carrick	Carrick	2000
1702	Morgenthal	Nelson	400
1703	Grunig	Morris	400
1704	Bretonnel	Bretonnel	500
1705	Portola Louvre	Owner	400
1706	Hemminga	Owner	5000
1707	Lieb	Lieb	4000
1708	Weaver	Graham	850
1709	Schulz	Baker	400
1710	Kelhord	Leonard	880
1711	Reardon	Reardon	500
1712	Gullmes	Gullmes	2000
1713	Hyman	Little	16595
1714	Pickering	Haskins	1800
1715	Remedial	Sibley	570
1716	Bankers' Invst.	Braas	1450

FRAME DWELLING
(1661) W TWENTY-FIFTH AVE 125 N "U." One and one-half-story and basement frame dwelling.
Owner.....Lottie Branagh, 1340 42nd Ave., San Francisco.
Architect ..None.
Contractor..L. Branagh, 1340 42nd Ave., San Francisco.
COST, $1800

FRAME FLATS
(1662) W NAPLES 100 S Russia. Two story and basement frame store and flat.
Owner .....Vincenzi Sarubiel, 720 Naples, San Francisco.
Architect ...None.
Contractor. L. C. Smith, 355 London, San Francisco.
COST, $2500

FRAME DWELLING
(1663) NW DIAMOND & TWENTY-fourth. Two-story and basement frame dwelling.
Owner..... MacArthur Bros., 1560 Fell San Francisco.
Architect ...None.
Day's work. COST, $1700

FRAME RESIDENCE
(1664) NW VIENNA 200 NE Italy. Two-story and basement frame residence.
Owner.....John Russo, 1227 Kearny, San Francisco.
Architect ...None.
Contractor..C. A. Jeffers, 355 London, San Francisco.
COST, $2200

FRAME APARTMENTS
(1665) N SUTTER 80 W Webster. Three-story and basement frame (6) apartments.
Owner.....John A. Hoots, 326 Hobart, San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Contractor..John A. Hoots & Sons, 251 Kearny, San Francisco.
COST, $8500

ALTERATIONS
(1666) E MISSION 50 S 22nd. Minor changes in theatre.
Owner.....R. Floodberg.
Architect ...C. A. Haber, 648 Monadnock Bldg., S. F.
Contractor..Thos. A. Cavanagh, 180 Jessie, San Francisco.
COST, $400

FRAME FLATS
(1667) N CLEMENT 55 W 15th Ave. Two-story and basement frame (2) flats.
Owner.....A. Melander, 1621 Lake, San Francisco.
Architect ...None.
Day's work. COST, $5250

ADDITION
(1668) NO. 15 ARGUELLO BLVD. Raise portion of roof and add to frame residence
Owner.....John Lawson, Premises.
Architect ...None.
Contractor..W. A. Goericke, 716 Postal Telegraph Bldg., S. F.
COST, $3500

ELECTRICAL WORK
(1669) E PENNSYLVANIA 100 S 18th S 100xE 100. Electrical work for two-story and basement reinforced concrete hospital building.
Owner.....Union Iron Works.
Architect .. Frederick H. Meyer, Bankers' Invst. Bldg. S. F.
Contractor..Decker Elec. Constr. Co., 111 New Montgomery, S. F.
Filed May 27, '16. Dated May 18, '16.
On 1st of succeeding month.. 75%
Usual 35 days..... 25%
TOTAL COST, $2477
Bond, $1238. Surety, U. S. Fidelity & Guaranty Co. Limit, 100 working days. Forfeit, none. Plans and specifications filed.

FRAME COTTAGE
(1670) NW NAPLES & CURTIS being Lot 12 Blk 24 Crocker Amazon Tct. All work except concrete, plumbing, shades and electric fixtures for one-story and basement frame cottage.
Owner.....John Henry and Catherine Hauser, 2181 Bryant, S. F.
Architect ...Wm. A. McIntosh.
Contractor..Wm. A. McIntosh, 289 Cumberland, San Francisco
Filed May 27, '16. Dated May 25, '16.
Frame up & ready for shingles..$600
Brown coated 625
Completed and accepted..... 600
Usual 35 days..... 800
TOTAL COST, $2625
Bond, $1575. Surety, Andrew Jackson and Wm. Smith. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BRICK GARAGE
(1671) S FIFTEENTH 137-6 W Valencia. One-story brick garage.
Owner.....P. F. Ferguson.
Architect ...T. Paterson Ross, 310 California, San Francisco.
Contractor..Fred Miller, 225 Dolores, San Francisco.
COST, $6900

ALTERATIONS
(1672) NO. 3044 TWENTY-FOURTH. Alter store.
Owner.....P. C. Baker, 118 14th, S. F.
Architect ...None.
Contractor..J. Collins, 581 Waller, San Francisco.
COST, $450

FRAME COAL SHED
(1673) S GEARY 32 E 10th Ave. One story frame coal shed.
Owner.....W. G. Stafford Coal Co., 234 Stuart, San Francisco.
Architect ...W. S. Rhodes, 3372 16th, San Francisco.
Day's work. COST, $3800

REPAIRS
(1674) NOS. 35-37 LELAND AVE. All work for repairs to "The Hall Building."
Owner. ....Mary E. Webb, Admx. Est. Richard Webb, dec'd. Jackson, Amador Co., Cal.
Architect ...None.
Contractor..T. H. Parry, 222 Raymond Ave., San Francisco.
Filed May 29, '16. Dated May 26, '16.
New roof completed.....$186.25
Interior repaired and papered. 186.25
Entire flat repaired and painted 186.25
Usual 35 days..... 186.25
TOTAL COST, $745.00
Bond, $100. Surety, W. J. Stephenson. Limit, June 22, 1916. Forfeit, none. Plans and specifications, none.

FRAME DWELLING
(1675) SW TWENTY-FOURTH AVE & Anza. All work for two-story and basement frame dwelling (8 rooms and bath)
Owner.....Finance & Realty Develop-

ment Co., 310 Phelan Bldg.,
Architect ...None.
Day's work.
Filed May 29, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications only filed.

FRAME RESIDENCE
(1676) N ANZA 82-6 E FIFTH AVE. All work for two-story and basement frame residence.
Owner.....Finance & Realty Development Co., 340 Phelan Bldg.,
Architect ...None.
Day's work.
Filed May 29, '16. Dated ——.
Payments not given.....
TOTAL COST, $——
Bond, limit, forfeit, none. Plans and specifications only filed.

FRAME APARTMENTS
(1677) N CLAY 137-6 W Hyde. Three story & basement frame (12) apartments.
Owner.....Laura M. Jordan, 1849 Larkin, San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Day's work. COST, $20,000

FRAME DWELLING
(1678) W FORTY-FIFTH AVE 100 N Judah. One and one-half-story and basement frame dwelling.
Owner.....Neil Bros., 4221 Moraga, San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(1679) W FORTY-FIFTH AVE 125 N Judah. One and one-half-story and basement frame dwelling.
Owner.....Neil Bros., 4221 Moraga, San Francisco.
Architect ...None.
Day's work. COST, $1800

FRAME DWELLING
(1680) S ARMY 50 W Bryant. One and one-half-story and basement frame dwelling.
Owner.....M. McDonough, 90 St. Mary's Ave. and L. Costello 93 College Ave., S. F.
Architect ...None.
Day's work. COST, $1400

ALTERATIONS
(1681) W MISSION 75 N 16th. Alter club.
Owner.....P. Holland.
Architect ...Comyns & Nygren, Guerrero and 16th, S. F.
Contractor..Earl J. Comyns, 2150 Sutter, San Francisco.
COST, $450

FRAME DWELLING
(1682) E TWENTY-THIRD AVE 300 S Lincoln Way. Two-story and basement frame dwelling.
Owner .....Eric Dahlberg, 249 Noe, San Francisco.
Architect ...None.
Day's work. COST, $2500

ALTERATIONS
(1683) NOS. 552-4-6 HAYES. Minor alterations to stores.
Owner.....John C. Graham, 245 Montgomery, San Francisco.
Architect ...None.
Contractor..Harold Braunter, 187 Stevenson, San Francisco.
COST, $800

SUPPLY STATION
(1684) SW BUSH AND LARKIN. One story brick supply station.
Owner.....Shell Co. of California, 343 Sansome, San Francisco.
Architect ...None.
Day's work. COST, $500

FRAME DWELLING
(1685) W FOURTEENTH AVE 100 N Balboa. One-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1750

FRAME DWELLING
(1686) S DUNCAN 133 E Noe. One-story and basement frame dwelling.
Owner.....J. Sugrue, 408S 26th, S. F.
Architect ...None.
Days' work. COST, $1500

FRAME DWELLING
(1687) S RIVERA 60 W 21st Ave. One-story and basement frame dwlg.
Owner.....N. F. Nilsson, 355 Coleridge, San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME RESIDENCE
(1688) N MAGNOLIA AVE 165 W Buchanan 27x120. All work for two-story frame residence.
Owner.....Tony Piazzo.
Architect ...Louis H. Lee.
Contractor..Louis H. Lee, 135 Cole, San Francisco.
Filed May 31, '16. Dated May 31, '16.
Rafters up $625
Rough plaster on..... 625
Completed 625
Usual 35 days..... 625
TOTAL COST, $2500
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

CLASS "C" APARTMENTS
(1689) W LEAVENWORTH 77-10 N Sutter N 37-6xW 90-6. Excavation and concrete for four-story Class "C" apartments.
Owner.....Anton Rulfs, 499 Belvedere, San Francisco.
Architect ..Falch & Knoll, Hearst Bldg San Francisco.
Contractor..Joseph Pasqualetti (American Concrete Co)., Humboldt Bank Bldg., S. F.
Filed May 31, '16. Dated May 24, '16.
Excavation completed $200
Concrete foundation, walls and piers finished 855
Completed and accepted..... 200
Usual 35 days..... 420
TOTAL COST, $1675
Bond, $840. Sureties, Pietro Barale and Felice Rocca. Limit, 14 days after May 31. Forfeit, none. Plans and specifications filed.

CONCRETE FLOOR, ETC.
(1690) NW SACRAMENTO & SANsome N 29-8xW 100. Concrete floor in basement of National Building.
Owner.....The Jonas Schoenfeld Co.
Architect ...None.
Contractor..Joseph Pasqualetti, Humboldt Bank Bldg., S. F.
Filed May 31, '16. Dated May 31, '16.
On completion 75
Usual 75 days..... 25%
TOTAL COST, $860
Bond, $130 Surety, Massachusetts Bonding & Insurance Co. Limit, July 15, 1916. Forfeit, none. Plans and specifications, none.

FRAME RESIDENCE
(1691) W SEVENTEENTH AVE 75 N Lake N 25 ——. All work for two-story and basement frame residence.
Owner.....Arthur H. Malm, 27 17th Ave., San Francisco.
Architect ...None.
Contractor..Caldwell & Son, 1913 Van Ness Ave., San Francisco.
Filed May 31, '16. Dated May 24, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $3150
Bond, none. Limit, 70 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS, ETC.
(1692) SE MAJESTIC AVE 175 NE Lakeview (Hearst Ave) NE 35-6xSE 100; No. 61 Majestic Ave. Raising, moving, altering and repairing frame cottage.
Owner.....James D. Smith.
Architect ...None.
Contractor..George M. Wilson.
Filed May 31, '16. Dated May 29, '16.
Raised, moved and placed on new foundation, studding and underpinning placed and covered and rat proofed.....$278.75
Structural alterations completed, house wired and plumbing roughed in 278.75
Completed and accepted..... 278.75
Usual 35 days..... 278.75
TOTAL COST, $1115.00
Bond, $557.50. Sureties, S. Worst and E. D. Swartout. Limit, 90 days. Forfeit, $2.50. Specifications only filed.

FRAME DWELLING
(1693) N McKINNON 100 E Mendall. Two-story and basement frame dwlg.
Owner.....T. Glynn, Cor. McKinnon & Mendall, San Francisco.
Architect ...L. J. Klein.
Day's work. COST, $1785

BRICK APARTMENTS
(1694) NE HOWARD AND SEVENTH. Three-story and basement brick (32) apartments.
Owner.....Wm. G. Gilmour, 180 Jessie, San Francisco.
Architect ...Rousseau & Rousseau, 110 Sutter, San Francisco.
Day's work. COST, $20,000

ALTERATIONS
(1695) NO. 3634 SEVENTEENTH. Alter store into rooms.
Owner.....James Richardson & Son, Premises.
Architect ...None.
Contractor..Fernsworth & Hall, 4065 19th, San Francisco.
COST, $100

ALTERATIONS
(1696) NO. 245 BUSH. General alterations and repairs for bakery.
Owner.....Crocker Estate Co., 525 Crocker Bldg., S. F.
Architect ...None.
Day's work. COST, $2000

FRAME DWELLING
(1697) S GARFIELD 25 E Ralston. One story and basement frame dwlg.

Owner.....Claus Swanson, 118 Andover, San Francisco.
Architect ...None.
Day's work. COST, $850

FRAME DWELLING
(1698) E CULEBRA 134-6 N Lombard One-story and basement frame dwlg.
Owner.....Francis A. Todhunter, 832 Filbert, San Francisco.
Architect ...D. Olsen, 435 Powell, S. F.
Contractor..Geo. C. Todhunter, 446 29th Ave., San Francisco.
COST, $2400

ALTERATIONS
(1699) NOS. 612-634 CAPP. Alter two residences.
Owner.....Mathilde Schrader, San Anselmo, Cal.
Architect ...None.
Contractor..C. Trifelitti, 2218 Mission, San Francisco.
COST, $400

ALTERATIONS
(1700) NO. 1401 OCTAVIA. Alter store.
Owner.....Thomas Denigan, Pacific Bldg., San Francisco.
Architect ...None.
Contractor..C. C. W. Haun, 180 Jessie, San Francisco.
COST, $400

FRAME STORE AND DWELLING
(1701) S IRVING 32 W Sixth Ave. One story frame store and dwelling.
Owner.....Mr. and Mrs. M. H. Carrick, 1358 Fell, San Francisco.
Architect ...Wm. A. Carrick, 613 Market, San Francisco.
Day's work. COST, $2000

FRAME GARAGE
(1702) NO. 1909 VALLEJO. One-story frame garage.
Owner.....Mrs. Minnie Morgenthal, 1684 48th Ave., S F.
Architect ...None.
Contractor..O. E. Nelson, 1215 Monterey Ave., San Francisco.
COST, $400

ALTERATIONS
(1703) NO. 110 LYON. New front, etc., for dwelling.
Owner.....Z. H. Grunig, Premises.
Architect ...None.
Contractor..A. T. Morris, 501 11th Ave., San Francisco
COST, $400

UNDERPIN BUILDING
(1704) NO. 1834 FILLMORE. Underpin building.
Owner.....Georgette Bretonnel, Paris, France.
Architect ...Oliver Everett, 1940 Webster, San Francisco.
Day's work. COST, $500

PANEL WORK
(1705) MARKET AND POWELL. Panel work, etc., for dining room.
Owner.....Portola-Louvre Cafe.
Architect ...None.
Day's work. COST, $400

FRAME FLATS
(1706) N CALIFORNIA 152-6 E 15th Ave. Two-story and basement frame (2) flats.
Owner.....Hemminga Bros., Inc., 1600 Fell, San Francisco.
Architect ...None.
Day's work. COST, $5000

FRAME FLATS
(1707) SE COLERIDGE & EUGENIA. Two-story and basement frame (2) flats.
Owner.....Earl R. Lieb, 2872 Folsom, San Francisco.
Architect ...None.
Contractor..Lieb Bros., 2773 Howard, San Francisco.
COST, $4000

ALTERATIONS
(1708) SE VAN NESS AVE & HEMlock. Erect gallery in garage.
Owner.....C. N. Weaver Co., 1216 Van Ness Ave., S. F.
Architect ...None.
Contractor..David Elms Graham, 693 Mission, San Francisco.
COST, $850

ALTERATIONS
(1709) NOS. 481-483 MISSISSIPPI. Alter and add to dwellings.
Owner.....Frederick F. Schulz, Prem.
Architect ...None.
Contractor..J. H. Baker, 335 22nd Ave., San Francisco.
COST, $400

ADDITION
(1710) S KIRKHAM 57½ W 46th Ave. Move and add to building.
Owner.....Joseph Klebora, 1247 45th Ave., San Franucisco.
Architect ...None.
Contractor..Peter M. Leonard, 1247 45th Ave., San Francisco.
COST, $880

CONCRETE FOUNDATION
(1711) NE CLIFFORD & UPPER TERrace. Concrete foundation for residence.
Owner.....T. A. Reardon, Premises.
Architect ...None.
Day's work. COST, $500

FRAME DWELLING
(1712) N ROLPH 203 W Madrid. Two story and basement frame dwlg.
Owner.....Victor Gullmes, 1828 Castro San Francisco.
Architect ...None.
Day's work. COST, $2000

FRAME APARTMENTS
(1713) SW DIVISADERO & WASHington S 50xW 60. All work for 3-story and basement frame apartments
Owner.....Lillie Hyman.
Architect ...Rousseau & Rousseau, Inc., 110 Sutter, San Francisco.
Contractor..Wm. Little, 753 8th Ave., San Francisco.
Filed June 2, '16. Dated May 10, '16.
Frame up and roof on.....$4148.75
Brown coated 4148.75
Completed and accepted..... 4148.75
Usual 35 days..... 4148.75
TOTAL COST, $16,595.00
Bond, $8498. Surety, United States Fidelity & Guaranty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

HOUSE RAISING, ETC.
1714) W GOUGH 175 S Washington, also described as NW Clay and Gough N 137-6x127-6. House raising and house moving of three-story frame residence now at 2100 Washington; NW Cor. Washington and Octavia.
Owner.....Rose C. and Loring C. Pickering, 1909 Clay, S. F.
Architect ...M. J. Lyon Co., 14 Montgomery, San Francisco.
Contractor..W. W. Haskins, 2023 Anza, San Francisco.
Filed June 2, '76. Dated May 9, '16.
House raised to moving height..$300
House moved to Washington St. clear of Octavia..... 300
House moved to Gough St. lot... 250
House in permanent position.... 150
House lowered to within 1 foot of permanent level..... 100
Brick work done and all damage repaired 250
Usual 35 days..... 450
TOTAL COST, $1800
Bond, $1800. Sureties, R. M. Haskins and Mrs. M. Haskins. Limit, 60 days. Forfeit, $10. Plans and specifications filed.

EXCAVATING, ETC.
(1715) NW MISSION AND MINT. All work for excavating and holding for stores and offices.
Owner.....Remedial Loan Association
Architect ...Frederick Whitton, 251 Kearny, San Francisco.
Contractor..Sibley Grading & Teaming Co., 284 Dolores, S. F.
Filed June 2, '16. Dated June 1, '16.
Monthly payments of..... 75%
Usual 35 days.....Balance
TOTAL COST, $570
Bond, $285. Surety, Massachusetts Bonding & Insurance Co. Limit, 20 days after June 5. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(1716) NO. 726 MARKET. Alterations of store front of store occupied by The Hub.
Owner.....Bankers' Investment Co., Corporation.
Architect ...Frederick H. Meyer, Bankers' Invst. Bldg., S. F.
Contractor..Braas & Kuhn Co., Inc., 58 Dearborn, San Francisco.
Filed June 2, '16. Dated May 26, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $1450
Bond, $750. Sureties, H. D. Junck and Nicholas Epting. Limit, 30 days. Forfeit, none. Plans and specifications filed

BUILDING PERMIT TOTALS FOR MAY

Big Increase Over Totals of Last Year Is Report of Building Bureau of Board of Public Works.

Building permits issued by the Board of Public Works for the month of May, 1916, as reported by Chief Inspector Horgan, amounted to $1,629,527. For this amount 590 permits were issued both for new structures and repairs to buildings already constructed.

The building permits issued for May, 1915, amounted to $947,115, there being 478 permits issued during that month.

Horgan reports that the present activities will continue as plans for new improvements are being brought to the building department daily for information regarding the building ordinances, before being filed for approval.

At the present time the Building Department is going over plans for a large number of residences, factories and manufacturing buildings and as soon as these receive the approval of the department, permits to erect will be issued. The following is a complete report as submitted to Chief Inspector Horgan:

Class	No. of Bldgs.	Amount
"A"	1	$ 45,000
"B"	3	166,600
"C"	12	245,800
Frames	216	775,082
Alterations	351	190,217
Public Buildings	3	184,000
Harbor Buildings	1	23,428
Total	590	$1,629,527

LEASES.

June 2, 1916—NW ELLINGTON (Porter Ave) 157 SW Foote Ave SW 48 NW 53 SW 51 NW 13 SW 44 NW 171 NE 123 SE 237 Domenico Delucchi to Giuseppe Armanino. 8 years. $2400.

June 2, 1916—N GOLDEN GATE AVE., bet. Webster and Fillmore: No. 1272 Golden Gate Ave. Mrs. Matilda T Borneque to Chas D Rolier. 2 years. $1200.

May 26, 1916—NO. 957 MARKET. Willis A Artz and Frederick C Baur to O M Philippet. 3 years. $480.

May 31, 1916—E TENTH AVE, bet Geary and Anza; No. 474 16th Ave. Oscar W Thunberg, Jno Jebnson and David Olson to Henry W Tiggs. 1 year. $480.

May 31, 1916—E TENTH AVE 150 N Anza N 25xE 120. Jno Johnson, David Olsen and Oscar W Thunberg to Max Blum. 1 year. $42.50 per month.

May 31, 1916—NW GOUGH & SUTTER N 50x137-6; No. 1500 Sutter. Hattie and Gertrude Israel and Jacob Weissbein, Extr Estate Meyer Max Israel, dec'd to William Nevegold. 5 years. $23,400.

June 1, 1916—NW BUSH & LARKIN 25 x112-6. Thomas Skerrett and Thos Donnelly to Shell Company. 3 years. $50 per month.

May 29, 1916—W DIVISADERO 20 m or 1 S McAllister; No. 859 Divisadero. Eisenbach Co to Nicholas Mal'anni. 5 years. $25 per month.

NOTICE OF NON-LIABILITY.

May 31, 1916—N PACIFIC 97-6 W Sansome W 41 N 57-6 E 1 N 11-3 E 40 S 68-9. Abraham Hilson as to improvements on leased property..

COMPLETION NOTICES.

San Francisco

RECORDED ACCEPTED

May 1, 1916—LOT 12 BLK 2818 Forest Hill Court. Conservative Bldg & Invst Co to whom it may concern.. .....May 1, 1916

May 1, 1916—NW POLK AND BUSH. Estate of Sarah Fry to Pacific Wall Bed Co.....April 21, 1916

May 1, 1916—E NINETEENTH AVE 25 N Balboa N 25xE 82-6. Martin and Hans Nelson to whom it may concern.....May 1, 1916

May 1, 1916—S COLLEGE AVE 100 E Marcelli E 25x120. Joseph Fredrick and Ella Schuster to Lyon & Hoag.....May 1, 1916

May 1, 1916—E TWENTY-SECOND Ave 90 S California S 50xE 120. Grace Yager to W W Yager..... .....May 1, 1916

May 1, 1916—E FOLSOM 77 S 13th. T F Kiernan or Thos F Kiernan to Kiernan & O'Brien, Inc..Apr. 29, 1916

May 1, 1916—SE HYDE AND BROADway E 87-6xS 37-6. James Cantley to E J Montgomery.....May 1, 1916

May 3, 1916—W COLE 100 S Carl S 75 xW 100. Lange Invst Co to Cameron & Disston.....May 3, 1916

May 3, 1916—SW JONES & JACKSON 37-6x82-6. W S and Annie Brockie to C J Frisk & Co.....Apr. 22, 1916

May 3, 1916—SE FIFTEENTH AVE and Clement. Thos Kelly to whom it may concern.....May 3, 1916

May 3, 1916—LEASEHOLD NW Geary and Hyde N 87-6xW 57-6. Standard Securities Co to Wm Martin..... .....May 1, 1916

May 3, 1916—COMG 175 NW Stevenson and SW 5th th SW 40xNW 65. Hale Bros by Macdonald & Kahn to Nilson & Arras.....April 26, 1916

May 3, 1916—NW NAPLES 150 NE France Ave NE 25xNW 100; Ptn Lot 6 Blk 44, Excl Hd. Attilio Cirimele to L C Smith.....April 28, 1916

May 3, 1916—W TWENTY-FOURTH Ave 100 N Anza N 25xW 120. W H Walthall to whom it may concern ....May 3, 1916

May 4, 1916—W ORD AVE 252 N 18th N 28xW 176. Jane Greenwood to Geo G Moren.....Completed ——

May 4, 1916—W ELEVENTH AVE 125 N Balboa N 25x120. A T Morris to whom it may concern....May 3, 1916

May 4, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to Mangrum & Otter .....April 28, 1916

May 4, 1916—W NINTH AVE 250 N Cabrillo N 25x120. A T Morris to whom it may concern..May 3, 1916

May 4, 1916—W NINTH AVE 275 N Cabrillo N 25x120. A T Morris to whom it may concern..May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 171-8 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 125 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 148-4 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—W TWENTY-SEVENTH Ave 171-8 S Geary W 120xS 23-4. Ben Schloss to Hofmeister & Berdahl .....May 3, 1916

May 4, 1916—N TWENTY-SECOND 105 W Valencia W 22-6xN 114. The Planz Co, Inc to John E Beck.... .....April 28, 1916

May 5, 1916—E MASONIC AVE 50 S Fulton 25x90. John W Williams to whom it may concern....May 5, 1916

May 5, 1916—W NINETEENTH AVE 225 N Fulton N 25xW 120. Howard T Black to Merriman & Capell..... .....May 4, 1916

May 5, 1916—NE GEARY AND NINTH Ave E 32-6xN 100. D J or Daniel J O'Hara to whom it may concern.. .....May 4, 1916

May 6 ,1916—W EIGHTEENTH AVE 125 N Balboa N 25xW 120. Emil and Margaret F Schkade to whom it may concern.....May 6, 1916

May 6, 1916—W TWENTY-FOURTH Ave 125 N Anza N 25xW 120. W H Walthall to Spence & Walthall... Rose Bories to Niels Schultz and .....May 3, 1916

May 6, 1916—NO. 419 TWENTY-FIRST.

May 6, 1916—NE BUSH & FRANKLIN Hermann Est to Fink & Schindler Co.....April 26, 1916

May 6, 1916—E MISSION 25 S Richland Ave S 75xE parallel with Richland Ave 100, being Lots 2, 3 and 4 Blk "G." French and Gilman Tract. San Francisco Church Extension Society of Methodist Episcopal Church to J T Johnston, J E Branagh and T A Cuthbertson. May 3, '16

May 6, 1916—E TWELFTH AVE 25 N Cabrillo N 25xE 95. Pearl M Levy to Robert McLelland. Apr 5, 1916

May 6, 1916—SE GEARY AND LEAVenworth S 44xE 83-6. Gerard Invst Co to Frank J Klimm....May 5, 1916

May 6, 1916—S EIGHTEENTH 30 E Lexington Ave 25x100. F K and M G or Mae G Moore to Antone Petersen.....May 1, 1916

May 6, 1916—W TWENTY-FOURTH Ave 75 N California N 25xW 95. John Gray to Thomas Hamill..... .....May 5, 1916

May 6, 1916—W FIFTEENTH AVE 175 S Anza S 25xW 127-6. Joseph Nolan to William P Nolan.....May 4, 1916

May 6, 1916—W EIGHTEENTH AVE 150 N Balboa N 25xW 120. Emil Aug and Margaret F Schkade to whom it may concern....May 6, 1916

May 8, 1916—N JACKSON 162-6 W Lyon W 25xN 127-8¼. Wilhelmina D J Duisenberg to J J Harcom.... .....May 6, 1916

May 8, 1916—LOT 16 BLK "B"-Regent 275 E San Jose Ave: No. 41 Regent. John Knudson to whom it may concern.....May 6, 1916

May 8, 1916—N FILBERT 30 W Gough 30x105. L Chiapellone and E Vigo to Devenecnzi Bros & Co..May 8, 1916

May 8, 1916—W TWENTY-SIXTH AV 75 S Taraval S 25x120. Ethel B and Edward A Johnson to whom it may concern.....May 3, 1916

May 8, 1916—W YORK 250 S 26th S 26xW 100. Philip W Montrouil to whom it may concern....May 8, 1916

May 8, 1916—SE CUMBERLAND AND Dolores S 89 E 105 — 25 E 25 N 114 W 130. Second Church of Christ Scientist Inc to Victor Stanquist .....Apr'l 30, 1916

May 8, 1916—SW JONES & JACKSON 32-6x82-6. W S and Annie Brockie to H C Matthies.....Apr. 29, 1916

May 9, 1916—S TURK 150 E Baker E 25xS 137-6. William O and Anna Tyson to J B Woolfrey..May 5, 1916

May 9, 1916—E TWENTY-SIXTH AV 150 N Irving 25x120. Ralph J Button to whom it may concern..May 9, 1916

May 9, 1916—SE GRANT AVE AND Geary. Bankers' Invst Co to O Kurtz .....May 8, 1916

May 9 , 1916—COMG 25 W York and 325 S 26th W 25 S 80-10¼ E 25-0⅞ N 77-9. Lawrence Costello to whom it may concern.....May 9, 1916

May 10, 1916—E ELEVENTH AVE 200 S Balboa S 25xE 120. Michael C Rench to whom it may concern.. .....May 10, 1916

May 10, 1916—W TWENTY-SECOND Ave 175 S California S 25xW 120. W H T Jackson to whom it may concern.....May 4, 1916

May 10, 1916—W YORK 275 S 26th S 25xW 100. William F Altvater to Philip W Montrouil.....May 9, 1916

May 10, 1916—W TWENTY-SIXTH Ave 175 S Taraval S 25x120. Edw S and Ethel R Johnson to whom it may concern.....May 10, 1916

May 10, 1916—W FOLSOM 198 S 17th W 122-6xS 150. Jean Allec to M B McGowan and J J Butler (as McGowan & Butler).....May 6, 1916

May 10, 1916—S CLAY 13-6 W Leavenworth W 25xS 67-6. Edward E Young to whom it may concern.... .....May 9, 1916

May 10, 1916—SW FOURTH AVE AND

Balboa 25x95. H W Roth to whom it may concern.....May 10, 1916

May 10, 1916—W YORK 300 S 26th S 25xW 100. Harold F Everett to Philip W Montrouil.....May 9, 1916

May 11, 1916—W THIRTIETH AVE 250 S Taraval S 25xW 120. Theodore Ernst to George F Cleese.....May 8, 1916

May 11, 1916—S BUSH 59 E Van Ness Ave 25x31. F W Noltemeier to Wm Martin.....May 10, 1916

May 11, 1916—S GEARY 83-6 E Leavenworth E 27xS 83-6. W L Heise to Schroeder Bros..May 1, 1916

May 11, 1916—W TWENTY-FIFTH Ave 300 S Geary S 25xW 100. H P Otten to whom it may concern.....May 10, 1916

May 12, 1916—NW TWELFTH AND Folsom 43x75. B G McDougall (as agent Arthur Arlett) to whom it may concern .....May 6, 1916

May 12, 1916—E LYON 82-6 N Post N 55xE 110. Mrs Georgiana Shea to E A Reynolds.....May 12, 1916

May 12, 1916—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern.May 6, 1916

May 12, 191..—SW LAKE AND 18TH Ave W 32-6xS 100. A Harrington to whom it may concern..May 9, 1916

May 12, 1916—SW SEVENTH 175 — Harrison — 125 SW 85 NW 25 NE 5 NW 75 SW 80 NW 25 NE 160. Workman Packing Co to Kiernan & O'Brien.....May 11, 1916

May 12, 1916—E TWENTY-FOURTH Ave 100 N Anza N 25xE 120. Frank E Ruggles to W Davies..May 12, 1916

May 12, 1916—W THIRTY-THIRD AV 100 N Balboa (B) 25x120. W F Nilsson to whom it may concern .....May 12, 1916

May 13, 1916—NW MASON AND Sutter W 45xN 137-6. Chas Schlessinger to O C Holt.....May —, 1916

May 15, 1916—NW CALIFORNIA & Van Ness Ave W 159-4xN 69-3. Pope Estate Co to Geo A Bos.....May 10, 1916

May 15, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to F W Snook Co..May 10, 1916

May 15, 1916—NE TWENTY-FIRST Ave 225 S California S 50xE 120. H C Keenan to whom it may concern .....April 10, 1916

May 15, 1916—LOT 16 BLK 6521 Treat Ave., bet. 24th and 25th; W Treat Ave 125 N 25th N 25xW 112-6. Walter Phillips to whom it may concern.....May 10, 1916

May 15, 1916—E SEVENTH AVE 100 N Geary N 25xE 120. Jos C Kirby to whom it may concern.May 15, 1916

May 15, 1916—S GREEN 132-6 E Baker 25x137.6. Susanne G McEwen to McKenzie & Prough..May 8, 1916

May 16, 1916—S POST 63-6 W Buchanan W 24xS 87-6. Tillie and I Weinstein to Bay City Bldg Co..May 13, 1916

May 16, 1916—W VERMONT 175 S 25th S 25xW 100. Richard A Downing to whom it may concern.....May 16, 1916

May 16, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. A Chazel to G Cavaglieri.....May 10, 1916

May 16, 1916—SW QUESADA AVE 290-7½ SE **from above** — 28x100. Emilio E Ambrosetti to Frank Rossi.....May 11, 1916

May 17, 1916—W MISSION 138-6 N to D W Ross & Co.....May 9, 1916

May 18, 1916—S EDDY 137-6 W Jones — 25 S 77-6 E 25 N 77-6. Alvin C and Estelle R Selig to Monson Bros.....May 15, 1916

May 19, 1916—E TWELFTH AVE 225 S Cabrillo. H C Christiansen to H C Christiansen.....May 19, 1916

May 19, 1916—COMG. 108 S CASSELLI Ave and 314-8 W Douglass 25x95-2⅛. H E and T W MacArthur to whom it may concern..May 18, 1916

May 19, 1916—SW BROADWAY & Jones 22-9x60. Edward J Duffey to J S Malloch.....May 18, 1916

May 20, 1916—N BROADWAY 206-6 W Jones W 23xN 60. Alice E J Harrigan to J H Baker May 19, 1916

May 20, 1916—W PALM AVE 180 N Euclid Ave N 80x120. Thos Scoble to whom it may concern.May 19, 1916

May 20, 1916—NE GEARY AND 19th Ave E 52-6x75. Thos. Scoble to whom it may concern.May 19, 1916

May 20, 1916—NE CALIFORNIA & Webb E 63-3xN 137-6. Edwin A Wasserman to Petersen-James Co .....May 10, 1916

May 20, 1916—NW VALLEJO AND Van Ness Ave N 30xW 95. O'Brien & Kiernan Realty Co to Kiernan & O'Brien, Inc.....May 19, 1916

May 22, 1916—E DIVISADERO 110 S Geary S 52-6xE 100. Anixter & Sons to The Central Iron Works .....May 12, 1916

May 22, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6 m or l. Pacific Gas & Electric Co to Scott Company.....May 15, 1916

May 22, 1916—W TWENTY-FOURTH Ave 165-4 N Balboa N 150xW 120. Thomas Hamill to whom it may concern.....May 22, 1916

May 22, 1916—NE THIRTIETH AVE and Clement N 25xE 75. Thomas Hamill to whom it may concern.. .....May 22, 1916

May 22, 1916—E TWENTIETH AVE 25 S California S 75xE 95. Edw Ginley to whom it may concern... .....May 20, 1916

May 22, 1916—N POST 159-9 W Van Ness Ave W 87-6xN 120. The Hecht Invst Co to The Central Iron Wks. .....May 18, 1916

May 22, 1916—W FORTY-THIRD AV 85 N Fulton N 50xE 120. Emil Nelson to whom it may concern..... ..... May 19, 1916

May 23, 1916—N CALIFORNIA 30 E Leidesdorff E 30 m or l to a point which is dist 132-6 W Sansome N 124 W 30 m or l to a pt which is dist 30 E Leidesdorff S 124. San Francisco Investment Co, Cpn to Monson Bros.....May 23, 1916

May 23, 1916—N O'FARRELL 150 E Hyde E 50xN 90. Herman D Hogrefe to whom it may concern..... .....May 22, 1916

May 23, 1916—E ARLINGTON 112 S Miguel 25x147. Fred H Detjen to whom it may concern..May 18, 1916

May 23, 1916—W MISSION 244-4¼ N 22nd N 29-11 th at angle 86 deg 23 inches W 160-3 N Parallel with Mission 0-6 th at angle 86 deg 44 inches W 90-3 to Bartlett S along E Bartlett 116-4 th at angle 86 deg 10 inches E 124 m or l th at angle 90 deg E 4-6 th at angle 90 deg N 17 th at angle 90 deg E 127-5 being ptn Blk 65, Mission & Horner Addn. Kiel Estate Co to Stockholm & Allyn.....May 13, 1916

May 23, 1916—E CAPP 169 S 24th 24 x100. A Cipowski to Wm H Grahn .....May 20, 1916

May 24, 1916—N SUTTER 82-6 W Polk 27-6x120. O W Britt to Whitney & Davies.....May 23, 1916

May 24, 1916—E SEVENTH AVE 200 S Kirkham S 85xE 120. A J Raisch to Cox Bros.....May 22, 1916

May 24, 1916—W HYDE 114-6 N McAllister N 23xW 70. Pacific Gas & Electric Co to Brandon & Lawson .....May 22, 1916

May 25, 1916—W MISSION 160 S 22nd — 125 S 40 E 125 N 40. Marion Leventritt to B C Van Emon.....May 24, 1916

May 25, 1916—E SEVENTH AVE 420 N Lake N 30xE 120. W I Smith to Paul Jones.....May 23, 1916

May 25, 1916—W NINETEENTH AVE 100 N Ulloa (U) N 33.4xW 120. St. Clair V Irwin to C C Higgins & Son.....May 24, 1916

May 25, 1916—W LEAVENWORTH 56 N Vallejo 25x100. Arthur Stevens to whom it may concern.May 25, 1916

May 26, 1916—E BRODERICK 75 N Green N 35xE 53-6. Chas W Gompertz to whom it may concern.....May 25, 1916

May 26, 1916—SW LAKE AND 15TH Ave S 42xW 52-6. S and Mrs S Rouda to W L Hemminga, Inc.....May 22, 1916

May 26, 1916—SE CLARA 175 SW Ritch SW 25xSE 80. Louisa A Dashwood to whom it may concern .....May 22, 1916

May 26, 1916—W TWENTIETH AVE 100 S Geary. Chas E Ham and John C Boddiker to whom it may concern.....May 24, 1916

May 27, 1916—W TWENTY-FIFTH Ave 100 N Anza (A) N 25xW 100-6. Clayton C Bovyer to whom it may concern.....May 26, 1916

May 27 1916—W TAYLOR 62-6 S Lombard 50x77-6. L Cavagnaro & Co to G Moriconi and G Passarino .....May 26, 1916

May 27, 1916—W TAYLOR 37-6 S Lombard 25x77-6. Giovanni Torre to G Moriconi and & Passarini.....May 26, 1916

May 27, 1916—E MISSION 197 N 24th N 55x122-6. Abraham Schnitman to John Westerlund....May 25, 1916

May 29, 1916—E TWENTY-FIFTH Ave 193-4 S Lake 31-8x120. Agnes E Martin to whom it may concern .....May 29, 1916

May 29, 1916—W GRANT AVE 89 N Washington; No. 916-A Grant Ave. Suey Wing Benevolent Association to Mulcahy Bros.....May 27, 1916

May 29, 1916—S SUTTER 115-9 E Powell S 137-6xE 45-6. Pacific Gas & Electric Co to Vulcan Iron Wks .....May 22, 1916

May 29, 1916—NW PINE AND BRODERICK — 82-6 W 27-6 N 82-6 E 27-6. Ida M Scooffy to J I Mitrovich Bldg Co.....May 27, 1916

May 29, 1916—W COOK 100 N Geary — 25 W 120 S 25 E 120. Albert C and Mary G Johnson to whom it may concern.....Completed —

May 31, 1916—W TWENTY-FOURTH Ave 250 N Clement N 25xW 120. John J and Nora Kilroy to whom it may concern.....May 27, 1916

May 31, 1916—S ARMY 185 W Church W 30xS 114. A Paulsen to Geo R Bintley.....May 29, 1916

May 31, 1916—LOT 3 BLK "O" Mission Terrace. Edward F Helms to E Helms.....May 31, 1916

May 31, 1916—LOT 23 BLK 21 Crocker Amazon Tract. Anna Warden to

whom it may concern...May 27, 1916
May 31, 1916—LOT 4 BLK "O" Mission Terrace. Edward F Helms to E Helms.....May 31, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT
June 1, 1916—NE TWENTY-THIRD & Louisiana. Western Sugar Refining Co (Co-partnership of John D and A B Spreckels) to Lindgren Co... .....May 26, 1916
June 1, 1916—W PARKER AVE 381 N Geary — 25 W 120 S 25 E 120. Johnson & Johnson to whom it may concern.....May 31, 1916
June 1, 1916—NO. 1231 MARKET, S line bet. 8th and 9th. James Otis Trustee to H L Petersen.May 24, 1916
June 2, 1916—E TWENTY-FIRST AV 150 S Anza S 25xE 120. George Gallagher to whom it may concern .....June 2, 1916
May 6, 1916—NE SEVERN & 23RD 22 6-10x65. M Bertolino vs T S Williams and C Trifiletti. $45
May 10, 1916—N CARL 225 W Clayton W 25xN 137-6. J B Ayres vs Mrs E M M Norton and L A Kern.....$46.50
May 10, 1916—E FORTY-SEVENTH Ave 215 N Cabrillo N 25xE 120. The Greater City Lumber Co vs A McBarnes $1569.40
May 10, 1916—S SIXTEENTH 350-6 — Dolores E 25xS 110. S W Band vs Edward and Mary Perry.....$571.50
May 10, 1916—S PACIFIC AVE 75 E Buchanan E 40xS 127-8¼. Herrings' Mill, Inc vs Frank A Wilkie and E Avery McCarthy $102.90
May 11, 1916—NO. 344 TEDDY AVE A Gold vs Max and Anna M Juergens $249.35
May 11, 1916—E SHOTWELL 185 S 19th S 30xE 122-6. Joseph Gottwald, $57.50; Henry Zellies, $40.25; Thomas Horigan, $45 vs Louis Gottwald, Mary E Leslie and Ida Lindemann .....
May 11, 1916—N PAGE 165 W Central Ave W 40 S 137-6 S 137-6 E 40 S 137-6. P E O'Hair & Co vs Carrie Green and Seibert & Co.....$446.60
May 13, 1916—N PAGE 165-7½ W Central Ave W 44-4½xN 137-6. Richmond Sheet Metal Works vs Carrie Green and James P Fletcher $196
May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. M Lentholdt & Co vs Carrie and D H Green and James P Fletcher....$290
May 15, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Veyhle & Collins vs Caroline Green and James P Fletcher.....$1305.43
May 15, 1916—E FORTY-SEVENTH Ave 215 N Cabrillo N 25xE 120. Schwarz & Gottlieb vs A McBarnes $41.20
May 16, 1916—N BUSH 137-6 W Buchanan W 34-4½xN 137-6. W Knightly and R Proctor (Co-partners) vs Gertrude C Limae.....$93
May 17, 1916—W NINTH AVE 260 S California S 25xW 120. I Weinberg vs Harry Blendes and Jacob Finkelstein $250
Trevia & Pasqualitte et al..$129.90
May 19, 1916—LOT 42 BLK "F" Columbus Heights Tract. George M Wilson vs Alfred Walderman..$24.30
May 19, 1916—E GOUGH 102-6 S Broadway E 91-8xS 25. R Zellnsky vs C H and T Gruenhagen....$140.20
May 20, 1916—LOT ON LOMBARD, bded on either side by Columbus Ave and Taylor. William J Partridge vs V Rosenbaum & Co and
May 20, 1916—NW GEARY AND Commonwealth Ave W 103xN 100. William Little vs Erma A Waterman $1000
May 22, 1916—N DUNCAN 112 m or l E Noe E 25xN 114 m or l; No. 476 Duncan. The Greater City Lumber Co vs A N Roth.....$60.25
May 22, 1916—W SEVENTEENTH AV 25 S Geary S 75xW 82-6. George H Tay Co vs Jonathan Anderson..... .....$603.85
May 23, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. Weintraub & Moore vs Mrs E S Ellinwood and Henry E Routh.....$62.90
May 27, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. California Plate & Window Glass Co vs Elizabeth S Ellinwood and Henry E Routh.....$166.50
May 27, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. The Iron & Steel Contracting Co vs Carrie Green, Jos P Fletcher and Siebert Co.....$186
May 27, 1916—SW BRAZIL AVE 75 SE Vienna SE 25xSW 100. J H Kruse vs Paul Gely, Pierre Adrienne and C Griffin.....$127.03
May 29, 1916—S EIGHTEENTH 30 E Lexington Ave E 25xS 100. John Cazzaretto & Co vs F K and M G or Mae G Moore and Antone Petersen $90
May 29, 1916—E FORTY-FIRST AVE 173 N Balboa N 75xE 120. Paul Suhnell vs Theodore Schulz....$112
June 2, 1916—SE ATHENS 125 SW Excelsior Ave SW 25xSE 100. J H Kruse vs Gustaf Erickson....$448.53
June 2, 1916—NE BUSH & FRANKlin E 49xN 70. Brown & Tucker vs Joseph and Sam Herman, Minnie Loewenson and Dorothy Loewenson and Fink & Schindler.....$20
June 2, 1916—NW CLAY & SPRUCE N 100xW 37-6. C Bloom vs S M Everding and Robert McLelland..$33
June 2, 1916—W RUSS & FOLSOM SW 50xNW 100. John McInerney vs Henry C Hincken and O E Evans & Co $14

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1319	Scherhage	Flittner	450
1320	Nichols	Nichols	3200
1321	Thompson	Rubenstein	400
1322	Fisendahl	Sommarstrom	1800
1323	Ricker	Peterson	2500
1325	Howkins	Howkins	2000
1326	Edwards	Montgomery	2835
1327	Neary	Neary	2500
1328	Hollingsworth	Brown	2400
1329	Goranson	Goranson	2000
1330	Cormack	Cormack	2400
1331	E & A Co	E & A Co	2250
1332	Same	Same	2250
1333	Same	Same	2250
1334	Yosemite Ldy.	Breitwiser	490
1335	Scott	White	2000
1337	Allen	Strang	4500
1338	Voin	Allen	400
1339	Heasman	Bixby	529
1340	Wintermute	House	2890
1341	Celli	Perona	3456
1342	Kng's Dghtr.	Farquharson	32762
1344	Clark	Clark	1500
1346	Tutt	Dingwell	35000
1347	Campomenosi	Owner	550
1348	Cal Loan	Federal Sign	600
1349	Bowman	Federal Sign	900
1350	MacGregor	MacGregor	1500
1351	Whitaker	Rose	400
1357	Pizzigone	Pizzigone	425
1358	Maynard	Anderson	400
1359	Booth	Booth	5000
1360	Mills	Farquharson	11000
1361	McClure	Schnebly	8207
1362	Clark	Dexter	1510

ALTERATIONS
(1319) NO. 3261 E-FOURTEENTH, Oakland. Alterations.
Owner.....Berl Scherhage, Premises.
Architect... None.
Contractor..Jos. Flittner, 1700 35th Ave., Oakland.
COST, $450

DWELLING
(1320) N FOURTH AVE 150 W Greenwood, Oakland. Two-story 7-room dwelling.
Owner.....S. V. Nichols, 2217 Parker, Berkeley.
Architect...None.
Day's work. COST, $3200

(1321) N NINTH 100 E Oak, Oakland. Alterations.
Owner.....E. G. Thompson, 310 Athol Ave., Oakland.
Architect...None.
Contractor..V. Rubenstein, 668 6th, Oakland.
COST, $400

DWELLING
(1322) W OAKLAND AVE 300 S Pearl, Oakland. One-story 5-room dwelling
Owner.....Axel Fisendahl, — Orange, Oakland.
Architect...None.
Contractor..Sommarstrom Bros., 2417 Telegraph Ave., Oakland.
COST, $1800

DWELLING
(1322) S WELLINGTON 400 W Park Blvd., Oakland. One-story 6-room dwelling.
Owner.....L. Ricker, 3803 Randolph Ave., Oakland.
Architect...None.
Contractor..C. Peterson, 1200 E-24th, Oakland.
COST, $2500

DWELLING
(1325) N COURTLAND 200 W High, Oakland. Two-story 7-room dwlg.
Owner.....A. Howkins, 4424 Pampas Ave., Oakland.
Architect...Wm. R. Hanna.
Day's work. COST, $3000

DWELLING
(1326) E ROSS 100 N Harwood, Oakland. One-story 6-room dwelling.
Owner.....B. F. Edwards, 69 Hillcrest Oakland.
Architect...None.
Contractor..W. S. Montgomery, 2321 Ward, Berkeley.
COST, $2835

DWELLING
(1327) E VIEW 360 N Mather, Oakland. One-story 6-room dwelling.
Owner.....W. F. Neary, 1723 Telegraph Ave., Oakland.
Architect...None.
Day's work. COST, $2500

DWELLING
(1328) S HOPKINS 140 W Park Blvd., Oakland. One-story 6-room dwelling
Owner.....W. H. Hollingsworth, 10th Ave and E-14th, Oakland.
Architect...None.
Contractor..W. C. Brown, 1624 64th Ave., Oakland.
COST, $2400

DWELLING
(1329) E LAGUNA AVE 220 S Hopkins, Oakland. One-story 5-room dwelling.
Owner.....H. Goranson, 431 48th, Okd.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1330) S RICH 441 W Webster, Oakland. One-story 5-room dwelling.
Owner.....R. Cormack, 589 39th, Okd.
Architect ...None.
Day's work. COST, $2400

DWELLING
(1331) E LAGUNA AVE 158 N Montana, Oakland. One-story 5-room dwelling.
Owner.....E. & A. Co., Syndicate Bldg., Oakland.
Architect ...None.
Day's work. COST, $2250

DWELLING
(1332) E LAGUNA AVE 198 N Montana, Oakland. One-story 5-room dwelling.
Owner.....E. & A. Co., Syndicate Bldg., Oakland.
Architect ...None.
Day's work. COST, $2250

DWELLING
(1333) E LAGUNA AVE 118 N Montana, Oakland. One-story 5-room dwelling.
Owner.....E. & A. Co., Syndicate Bldg., Oakland.
Architect ...None.
Day's work. COST, $2250

DIG WELL
(1334) OAKLAND. All work for digging well.
Owner.....Yosemite Laundry Co., 4629 Grove, Oakland.
Architect ...None.
Contractor..J. E. Breitwiser.
Filed May 27, '16. Dated Feb. 10, '16.
1st of each month until paid....$100
Cost of casing to be paid within 5 days after delivery.....
TOTAL COST, $490 and cost of casing
Bond, limit, forfeit, none. Plans and specifications, none.

DWELLING
(1335) SE MAINE AND MAPLE AVE., Oakland. One-story 6-room dwlg.
Owner.....Mrs. C. Scott, 3254 Maple Ave., Oakland.
Architect ...None.
Contractor..J. White, 1959 38th Ave., Oakland.
COST, $2000

STORES
(1337) N TWENTY-FOURTH 100 E Orin Drive, Oakland. One-story 3-room stores.
Owner.....L. E. Allen, 2425 Orin Drive, Oakland.
Architect ...None.
Contractor. F. N. Strang, 805 Pacific Ave., Alameda.
COST, $4500

ALTERATIONS
(1338) NO. 3331 TELEGRAPH AVE., Oakland. Alterations.
Owner.....Mrs. L. D. Voin, 550 33rd, Oakland.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $400

DWELLING
(1339) W NINETIETH AVE opp. Sunnyside, Oakland. One-story 3-room dwelling.
Owner.....T. Heasman, 4032 Piedmont Ave., Oakland.
Architect ...None.
Contractor..R. R. Bixby, 2447½ Webster, Berkeley.
COST, $529

DWELLING
(1340) SE SHAFTER AVE & PRYAL, being Lot 1 Ptn Blk "V" Vernon Park Oakland. All work for 5-room dwlg.
Owner.....Jeanne C. Wintermute, 5996 Canning, Oakland.
Architect ...John Hudson Thomas, 1st National Bank Bldg., Bkly.
Contractor..Jacob House, 1640 Allston Way, Berkeley.
Filed May 29, '16. Dated May 29, '16.
Frame up ..... ¼
Brown coated ..... ¼
Accepted ..... ¼
Usual 35 days..... ¼
TOTAL COST, $2890
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

DWELLING
(1341) S FLEET ROAD 105 S Greenwood, Oakland. One and one-half-story 7-room dwelling.
Owner.....Bernard Celli, 74 Webster, Oakland.
Architect ...Herbert H. Kaiser.
Contractor..John Perona, 568 7th, Okd.
COST, $3456

CLASS "C" HOME
(1342) E BROADWAY 238.75 S Amethyst S 209xE 360, Oakland. All work for two-story and basement Class "C" home.
Owner.....The Kings' Daughters of California Home for Incurables.
Architect ...Julia Morgan, Merchants' Exchange Bldg., S. F.
Contractor..D. B. Farquharson, 1760 Ellis, San Francisco.
Filed May 31, '16. Dated May 15, '16.
2nd floor laid $8190.50
Roofed 8190.50
Standing finish in place..... 5000.00
Completed and accepted..... 3190.50
Usual 35 days..... 8190.50
TOTAL COST, $32,762.00
Bond, none. Limit, 6 months. Forfeit, none. Plans and specifications filed.

DWELLING
(1344) W MADISON 349 N Buchanna, Alhany. One-story 5-room dwelling.
Owner.....James Clark, 651 London, San Francisco.
Architect ...None.
Day's work COST, $1500

CONCRETE STORE, ETC.
(1346) N TENTH 50 W Harrison, Oakland. Three-story reinforced concrete store and lofts.
Owner.....E. R. Tutt, Park View Terrace and Grand Ave., Okd.
Architect ...A. W. Smith, 1010 Broadway, Oakland.
Contractor..J. H. Dingwell, 2006 West, Oakland.
COST, $35,000

ADDITION
(1347) NO. 430 CLIFTON, Oakland Addition.
Owner.....T. Campomenosi, 5174 Miles Oakland.
Architect ...None.
Day's work. COST, $550

ELECTRIC SIGN
(1348) SW NINTH AND BROADWAY, Oakland. Electric sign.
Owner.....California Loan Office, 9th and Broadway, Oakland.
Architect ...None.
Contractor..Federal Sign System Elec., 618 Mission, San Francisco.
COST, $600

ELECTRIC SIGN
(1349) NW THIRTEENTH & BROADWAY, Oakland. Electric sign.
Owner.....Bowman Drug Co., Prem.
Architect ...None.
Contractor..Federal Sign System Elec., 618 Mission, San Francisco.
COST, $900

ALTERATIONS
(1350) S SANTA RAY — W Paloma, Oakland. Alterations
Owner.....C. M. MacGregor, 470 13th, Oakland.
Architect ...None.
Day's work. COST, $1500

ALTERATIONS
(1351) NO. 469 THIRTEENTH, Oakland. Alterations.
Owner.....E. A. Whitaker, 2302 17th Ave., Oakland.
Architect ...None.
Contractor..A. H. Rose & Co., 545 17th, Oakland.
COST, $400

ADDITION
(1357) NO. 391 CLIFTON, Oakland. Addition.
Owner.....G. Pizzigone, Premises.
Architect ...None.
Day's work. COST, $425

BRICK GARAGE
(1359) E TELEGRAPH AVE 70 N 36th Oakland. One-story brick garage.
Owner.....Charles S. Booth, 928 16th, Oakland.
Architect ...Oliver & Thomas, Pantgaes Bldg., Oakland.
Day's work. COST, $5000

FRAME ANNEX
(1360) MILLS COLLEGE, Oakland. One story frame gymnasium annex.
Owner.....Mills College.
Architect ...Julia Morgan, Merchants' Exchange Bldg., S. F.
Contractor..D. B. Farquharson, 1760 Ellis, San Francisco.
COST, $11,000

FRAME FACTORY
(1361) SE E-ELEVENTH & SECOND Ave E 300xS 150, Okd. All work except excavating, grading and electric work to be done by owner for one-story frame factory.
Owner.....E. P. McClure, La Grange, Illinois.
Architect ...E. W. Cannon, Central Bk. Bldg., Oakland.
Contractor..Schnebly, Hostrawser & Pedgrift, 6th and Jackson, Oakland.
Filed June 2, '16. Dated May 11, '16.
Frame up and sheathed.....$2051
Plastered 2051
Accepted 2051
Usual 35 days.....Balance
TOTAL COST, $8207
Bond, none Limit, Aug. 31. Farfeit, $10. Plans and specifications filed.

DWELLING
(1362) LOT 18 and ½ Lot 19 Blk —, Electric Loop Tract, Oakland. Car-

penter work for one-story dwelling.
Owner.....Harry A. & Clara P. Clark, Oakland.
Architect ...None.
Contractor..A. R. Dexter, 2212 Grove, Oakland.
Filed June 2, '16. Dated May 29, '16.
Frame up ..... ¼
Brown coated ..... ¼
Completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $1510
Bond, $220. Surety, none. Limit, 90 days from June 1. Forfeit, plans and specifications, none.

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1324	Barker	Butterfield	2500
1343	Thomas	Button	4000
1345	Batdorf	Batdorf	1500
1352	Lick	Perona	500
1353	Asman	Asman	500
1354	Kern	Kern	3000
1355	Masonic Temple	Smith	400
1356	Hollis	Lewis	5000

DWELLING
(1324) NW DWIGHT WAY & ELLSworth, Berkeley. Two-story 6-room dwelling.
Owner.....Miss G. L. Barker, 2031 Dwight Way, Berkeley.
Architect ...None.
Contractor..Butterfield & Barker, 2474 Shattuck Ave., Berkeley.
COST, $2500

STORE AND FLAT
(1343) NW GROVE AND ROSE, Berkeley. All work for two-story store and flat building.
Owner.....R. J. Thomas, 2111 Vine, Berkeley.
Architect ...None.
Contractor..Frank Button, 1069 Marlposa Ave., Berkeley.
Filed May 31, '16. Dated May 1, '16.
Frame up ..... ¼
Ready for plaster..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $4000
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING
(1345) E MILVIA 95 N Berkeley Way, Berkeley: One-story 4-room dwlg.
Owner.....F. W. Batdorf, 1736 Milvia, Berkeley.
Architect ...None.
Day's work. COST, $1500

FINISH HOUSE
(1352) NO. 1633 KAINS AVE., Berkeley Finish house.
Owner.....E. W. Lick, 45 Kearny, San Francisco.
Architect ...None.
Contractor..John Perona, 568 7th, Okd.
COST, $500

SHED
(1353) N OREGON 110 E Dohr, Berkeley. Shed.
Owner.....O. E. Asman, 2430 Dwight Way, Berkeley.
Architect ...None.
Day's work. COST, $500

DWELLING
(1354) W SAN BENITO ROAD, bet. Spruce and Marin, Berkeley. One and one-half-story 6-room dwelling.
Owner.....Herbert F. Kern, 1326 Arch, Berkeley
Architect ...None.
Day's work. COST, $3000

ALTERATIONS
(1355) NO. 2285 SHATTUCK AVE., Berkeley. Alterations.
Owner..... Masonic Temple Association, Shattuck Ave & Bancroft, Berkeley.
Architect ...None.
Contractor..H. C. Smith, 2011 Francisco, Berkeley.
COST, $400

DWELLING
(1356) E LA LOMA AVE 200 N Buena Vista Way, Berkeley. Two-story 8-room dwelling.
Owner.... .Caroline W. Hollis, 2839 Fulton, Berkeley.
Architect ...W. H. Ratcliff Jr., 1st National Bank Bldg, Bkly.
Contractor..L. S. Lewis, 955 Ventura Ave., Berkeley.
COST, $5000

GARAGE, ETC.
(1358) NO. 1632 SPRUCE, Berkeley. Garage and addition.
Owner.....E. W. Maynard, Premises.
Architect ...None.
Contractor..Geo. Anderson, 6046 Lawton Ave., Oakland.
COST, $400

Building Contracts Awarded

Alameda

No.	Owner	Contractor	Amt.
1336	Taube	Delanoy	2000

DWELLING
(1336) NO. 800 WOOD, Alameda. One-story 5-room dwelling.
Owner.....W. R. Taube, 510 Taylor Ave., Alameda.
Architect ...A. W. Smith, 1010 Broadway, Oakland.
Contractor..Delanoy & Randlett, 2303 Central Ave., Alameda.

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED
May 1, 1916—LOTS 8 TO 24 Incl and ptn Lots 4, 5, 6, 7 and 25 to 32 inclu Map R. J. McMullen's Sbdvn Blk 576 Okd. Pacific Coast Shredded Wheat Co to Pittsburgh Des Moines Steel Co.....March 18, 1916
May 3, 1916—LOT 24 BLK 2 Map Dwight Way Terrace, Bkly. O M and Virginia M and H G Patrick to whom it may concern..Apr. 24, 1916
May 3, 1916—LOT 52 BLK "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 3, 1916—NW BROADWAY 467.35 SW Ada SW 37½xW 100, Okd. J C O'Connor to whom it may concern .....April 26, 1916
May 3, 1916—NW BROADWAY 504.85 SW Ada SW 37.50xNW 100, Okd. J C O'Connor to whom it may concern .....April 26, 1916
May 3, 1916—NE 22½ LOT 17 and SW 15 Lot 18 Blk "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern..Apr. 26, '16
May 3, 1916—LOT 16 and S 7½ Lot 17 Blk "H" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 3, 1916—LOT 75 and S 15 Lot 76, Blk "A" Map Broadway Terrace Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 3, 1916—S 5 LOT 76 All Lot 77 and N 10 Lot 76 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 3, 1916—S 20 LOT 79 and N 20 Lot 78 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 3, 1916—S 10 LOT 81, all Lot 80 and N 5 Lot 79 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.Apr. 26, 1916
May 3, 1916—LOT 82 and N 15 Lot 81 Blk "A" Map Broadway Terrace, Okd. J C O'Connor to whom it may concern.....April 26, 1916
May 4, 1916—LOTS 8 TO 24 INCL and Ptn Lots 4, 5, 6, 7 and 25 to 32, incl Map R. J. McMullen's Sbdvn Blk 576, Okd. Pacific Shredded Wheat Co to Clinton Constr Co..Apr. 25, 1916
May 5, 1916—LOT 4 BLK "H" Map Vernon Park, Okd. Joseph Bruno to M C Vaughn.....April 29, 1916
May 11, 1916—LOT 57 Nova Piedmont, Piedmont. Mabel Woodard to E W Woodard..... ..May 10, 1916
May 12, 1916—E BROADWAY 274.75 N Moss Ave, Oakland. Mary E McCarthy to A L & J E Lundy.....Feb. 29, 1916
May 12, 1916—SE UNIVERSITY AVE and Grove, Bkly. W H Heywood by James W Plachek to C Texdahl.. .....May 9, 1916
May 12, 1916—LOTS 11 AND 12 BLK "R" Revised Map Oakland Heights Alameda Co. Albert Hammarberg to whom it may concern.May 11, 1916
May 12, 1916—LOTS 10, 11 AND 12 Blk "U" Leonard Tract, being No. 2845 Telegraph Ave, Bkly. Margaret O Dunn to A Cederborg and A H Anderson.....May 12, 1916
May 13, 1916—LOTS 8 TO 24 INCL and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R. J. McMullen's Sbdvn Blk 576, Oakland. Pacific Coast Shredded Wheat Co to E L B Zimmer .....May 3, 1916
May 15, 1916—S 20 LOT 26 and N 20 Lot 25 Map Broadway Terrace, Okd. Walter H Packard to whom it may concern.....May 11, 1916
May 15, 1916—REAR NO. 5663 W Broadway, bet. Kales and Taft Ave, Okd. J F Kilpatrick to Joseph J Costodio.....May 13, 1916
May 16, 1916—LOTS 6 AND 7 BLK "E" Claremont Court, Berkeley. Mrs Samuel B McLenegan to Frank M Garden & Co.....May 8, 1916
May 16, 1916—LOT 24 BLK 6, Brookdale Terrace, Okd. Nannie A Brown to W C Brown.....May 15, 1916
May 16, 1916—LOTS 8 TO 24 Incl and ptn 5, 6, 7 and 25 to 32 incl, R J McMullens Sbdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Steiger Terra Cotta & Pottery Works .....May 10, 1916
May 16, 1916—LOT 26 BLK 21 Map Mathews Tract, Bkly. W P Dunning by J S Hanson to whom it may concern.....May 1, 1916
May 17, 1916—SW TELEGRAPH AVE and 30th, Okd. Charles H J Truman to Johnston Co.....May 15, 1916
May 17, 1916—SW FARRAGUT AVE and King Ave W 150xSE 211.5, Okd. Elizabeth B Moore to Alfred Peterson .....May 13, 1916

May 18, 1916—LOT 35 Amended Map Alta Piedmont Tract and Alta Heights, Piedmont. R E Stubbe to whom it may concern.May 18, 1916

May 18, 1916—LOTS 8 TO 24 incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R J McMullen's Shdvn Blk 576, Okd. Pacific Coast Shredded Wheat Co to Detroit Steel Products Co.. .....May 10, 1916

May 18, 1916—BRYANT ST., Oakland. Eurice C Wiser to Gordon J Wiser .....May 18, 1916

May 18, 1916—LOT 17 BLK 8 Rockridge Terrace, Okd. J C O'Connor to whom it may concern.May 17, 1916

May 20, 1916—N FIFTIETH 210 SE Lawton Ave SE 35 NE 87.35 NW 35.025 SW 88.67, Okd. Ann and L C Joslin to A Hammerberg...apr. 23, '16

May 20, 1916—OAKLAND PIER, Oakland. Southern Pacific Co to B S Harris .....May 10, 1916

May 22, 1916—LOTS 6, 7 AND 8 BLK 5 Map Hotel Claremont Tract, Berkeley. G H Atkins to W D Henderson.....May 22, 1916

May 22, 1916—LOT 14 BLK 4 Map Brookdale Terrace Tract, Oakland. Mary A Owen to J H Martin and C M Urch.....May 20, 1916

May 22, 1916—NE 13½ LOT 27 and SW 25 Lot 28 Blk 21 Map Key Route Heights, Okd. S A Isakson to whom it may concern.....May 15, 1916

May 22, 1916—LOT 11 and NE ½ Lot 12 Bk 21 Map Key Route Heights, Okd. W R Lippincott to whom it may concern.....May 12, 1916

May 22, 1916—S CALMAR AVE 217 W Paloma Ave 50x151, being Lot 30 Blk "D' East Piedmont Heights, Okd. Annie Depaoli to Norio Cavaglia .....May 17, 1916

May 22, 1916—IDORA PARK. Idora Park Co to P A Palmer..Apr. 16, 1916

May 22, 1916—S SIXTY-FIFTH 240 W Shattuck Ave 40xS 120, Oakland. Matthew Klein to whom it may concern.....April 1, 1916

May 23, 1916—PTN LOT 1 BLK "K" Map Central Piedmont Tract, Piedmont. W P Sugg to Sugg Bros Realty Co.....May 22, 1916

May 22, 1916—W 35 LOT 9 BLK 3 Map Landregan Tract, Oakland Tp. Edward Plechot to Oliver Legault .....May 13, 1916

May 23, 1916—NE DWIGHT WAY & Prospect N 100 E 100 S 105 W 100.3 Bkly. Horace Gusbee Co by R E Easton, Sec to Van Sant-Houghton Co (two acceptances)..May 23, 1916

May 24, 1916—S 20 LOT 130 N 15 Lot 128, Terminal Junction Tract, Albany. I Ariel Kellogg to whom it may concern.....May, 24, 1916

May 24, 1916—S 25 LOT 132 and N 10 Lot 130 Terminal Junction Tct., Albany. I Ariel Kellogg to whom it may concern.....May 24, 1916

May 24, 1916—LOT 14 and N ½ Lot 13 Blk "E" Belle Vista Park. Marie M Greif by Benj M Mederer to A L Haley.....May 16, 1916

May 24, 1916—NE NINETY-SIXTH & Cherry 30x100, Okd. George Ferguson to E E Wells....May 18, 1916

May 25, 1916—NW SEMINARY AVE 204.23 SW Trask SW 135.36xNW 121.80, Okd. A Miles Taylor to whom it may concern .. ....May 22, 1916

May 26, 1916—S 20 LOT 3 and N 35 Lot 20 Map Dell C Woodward Shdvn Pagoda Hill, Oakland Tp. Elwyn Stebbins to Joseph Coward..... .....May 16, 1916

May 26, 1916 LOT 26 BLK 3 Amended Map Thousand Oaks Court, Oakland Tp. Francis S Spring to H H Schuessler .....April 15, 1916

May 26, 1916—LOT 37 BLK 11 Map Thousand Oaks, Oakland Tp. Francis S Spring to H H Schuessler..... .....March 20, 1916

May 26, 1916—(1) LOT 26 Map 4th Ave Terrace Ext 6; (2) Lot 7 Blk 11 Map 4th Ave Heights, Okd. Paul E Woodburn to whom it may concern.....May 26, 1916

May 26, 1916—LOT 2 Ardsley Heights, being SW E-34th, bet. Park Blvd and 13th Ave., Okd. Ida Fabing to F N Fabing.....May 25, 1916

May 26, 1916—LOT 29 BLK 3 Map Thousand Oaks, Oakland Tp Geo Friend to A H Pallen....May 1, 1916

May 26, 1916—LOT 16 BLK 9 Map Thousand Oaks, Oakland Tp Geo Friend to A H Pallen....May 1, 1916

May 26, 1916—LOT 18 BLK 43 Map Ptn Minturn Tract, Ala Gabriel Vergez to Wm Dufour..May 22, 1916

May 27, 1916—NE Encinal & VERsailles Aves E 50xN 104, Alameda. Richard A Stassforth to Andresen Constr Co.....May 25, 1916

May 29, 1916—LOT 16 BLK 2 Dwight Gardens, Bkly. J S Hanson to whom it may concern..May 27, 1916

May 31, 1916—NOS. 2750-54 HAVENScourt Blvd, Okd. Athan Eliades to Harry C Knight.....May 27, 1916

May 31, 1916—W PERALTA AVE 100 S School, Okd. E C Jeffreys to whom it may concern..May 27, 1916

May 31, 1916—LOT 19 Map Nova Piedmont, Okd. H S Pratt to whom it may concern.....May 29, 1916

June 1, 1916—NW FOURTEENTH & Linden, Oakland. H Davis to C M Griffin.....June 1, 1916

June 1, 1916—W 37½ LOT 13 BLK "G" Northbrae, Bkly. H F Hiller to Ed A J Anderson, Axel Anderson and Carl Swanson.....Feb. 28, 1916

June 2, 1916—NW TWENTY-SECOND Ave 70 SW E-16th SW 35xNW 100, Okd. C W Glantz to whom it may concern.....June 1, 1916

LIENS FILED

ALAMEDA COUNTY.

May 15, 1916—SW HOWARD 185.145 from NW Oakland Ave NW 40xSW 100, Piedmont. E S Thompson & Son vs H J Garcia.. .....$612.60

May 15, 1916—N 20 LOT 140 and S 20 Lot 142 Map Terminal Junction Tct, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50

May 17, 1916—LOT 146 and S 5 Lot 148 Map Terminal Junction Tract, Albany. Hogan Lumber Co vs J M and B A Dice.....$234.50

May 17, 1916—SE E-TWENTIETH 55 SE 55th Ave SE 52 SW 127.72, Okd. Arthur W Meyers or Myers (given both) vs J Edward Mitchell and Wm L Newby.....$97

May 17, 1916—SW SACRAMENTO & Francisco W 80xN 100, Bkly. E M Spaulding, $97; A Dobinson, $39; Swift & Wilcox, $67.95 vs E M Reagh and Henry Lehfeldt.....

May 18, 1916—LOTS 1 TO 10 and 13 to 24, incl Blk 20, Town of Woodstock, Ala. W W Montague & Co vs Frank Sobrero, Gerolama Firpo, Luigi Queirolo and Angelo Stagnara (Alamada Vegetable Gardens Co) $87.31

May 22, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. W N Whitmore vs W H Little, Robert Davies and J E Settles.....$34.55

May 24, 1916—NE Walnut Ave 149.45 NW Monticello Ave NW 40xNE 101.53, Okd. Walter W Lydiksen (California Hardware Co) vs C Little and Robt Davies.....$55.57

May 19, 1916—LOT 18 BLK 1 Brookdale Terrace(Okd. H A Liese vs Robert Davies and W H Little....$20

May 19, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. Eureka Mill & Lumber Co vs Robert Davies et al $570.30

May 19, 1916—LOT 7 and S 8½ Lot 8 Blk 14 Amended Map Sunset Terrace, Albany. Union Floor Co vs Jennie A Yori C Bradford and O G Smith $45.75

May 20, 1916—PALM BEACH on E Encinal Ave, bet. Washington Park and Surf Beach, Ala. A R McIntyre vs Theodore Victor, Charles Blom, George Lamy and J Croll.....$54.25

May 22, 1916—LOT 18 BLK 1 Map Brookdale Terrace, Okd. H Peterson Co, $28.30; Charles W Walker, $75; J C Richardson, $20; Crescent Fixture Co, $42 vs Robert Davies and W H Little .....

May 29, 1916—SW SACRAMENTO & Francisco S 100xW 80, Bkly. D Leonard vs E M Reagh and Henry A Lehfeldt $27

May 27 1916—PTN LOT 61 Map Galindo Tract, Okd. Pioneer Wrecking & Constr. Co vs Letitia and Arthur P Snow and T H Dunakin $102.83

June 1, 1916—SW FRANCISCO AND Sacramento S 100xW 80, Bkly. T F Rodgers vs E M Reagh and Henry A Lehfeldt $42

RELEASE OF LIENS.

ALAMEDA COUNTY.

May 19, 1916—LOT 7 BLK 6; Lot 8 Blk "K" Map Grand Ave Heights, Okd. Bar Mercantile Co, $77.60; T O Churchill, $125 and $85 to Leo L Nichols .....

May 18, 1916—E GRAND AVE 350 N Weldon Ave N 50xE 128 being Lot 7 Blk "K" Map Grand Ave Heights Okd. Hogan Lumber Co, $413.69; A H Bar (Bar Mercantile Co) $65.60 to Estelle H and Leo L Nichols...

May 18, 1916—LOT 8 BLK "K" Map Grand Ave Heights, Okd. Pacific Fuel & Bldg Materials Co to Estelle H and Leo L Nichols and G F Sperow $120.35

May 18, 1916—E GRAND AVE 350 N Weldon Ave N 50xE 128 being Lot 7 Blk "K" Map Grand Ave Heights Oakland. Pacifis Fuel &. Bldg Materials Co to Estelle H and Leo I Nichols and G F Sperow.....$100.30

May 23, 1916—LOT 15 Map Thomas Bridge Resbdvn Lots 105, 106, 107, 108, 154, 155, 156, 157 Gansberger Tract, Hayward. Nils Quist to J W King and Thos Bridge.....$225.50

BUILDING CONTRACTS

SANTA CLARA COUNTY.

ALTERATIONS

SANTA CLARA AND LIGHTSTON STS. San Jose. Alterations to two-story bank and office building.

Owner.....Bank of Italy, Premises.

Architect ...Clarence A. Tantau, 519 California St., S. F.

Contractor..Morrison Bros., Santa Clara, Cal

Filed May 26, 16. Dated May 17, '16.
On 1st of each month..... 75%
Usual 35 days.....Balance
TOTAL COST, $7896
Bond, $5000. Surety, James H. Pierce. Limit, 70 days after filing. Forfeit, none. Plans and specifications filed.

RELEASE OF LIENS.

SANTA CLARA COUNTY.

RECORDED AMOUNT
May 20, 1916—BLK 7 ELM LEAF Park, San Jose. San Jose Lumber Co to J W Beach Jr.....$79.08

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
May 25, 1916—"FILOLI." San Mateo County. W B Bourn to Vulcan Iron Works.....May 23, 1916
May 25, 1916—LOT "B" BLK 9, Burlingame Terrace, Burlingame. John Baridon to J A Savitsky..May 6, 1916
May 25, 1916—LOT "J" BLK 5, Burlingame Land Co, Burlingame. A V Anderson to whom it may concern .....May 18, 1916

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

DWELLING
NINTH ST., bet. Pennsylvania & Lucas, Richmond. Dwelling.
Owner..... Chas. Nekel, Richmond.
Architect ...None.
Contractor..Norman E. Anderson, 315 Nevin Ave., Richmond.
COST, $1800

FRAME RESIDENCE
ANTIOCH, CONTRA COSTA COUNTY. Two-story frame and plaster residence.
Owner.....W. E. Calahan, 615 2nd St., Antioch.
Architect ...None.
Contractor..G. H. Field & Co., 3rd St. near G St., Antioch, Cal.
COST, $12,000

ADDITION
MACDONALD AND ASHLAND, Richmond. Addition to depot.
Owner.....Aitchison, Topeka & Santa Fe Rail Road, 673 Market, San Francisco.
Architect ...None.
Day's work. COST, $3480.49

COTTAGE
BISSELL AVE, bet. 12th and 13th Sts., Richmond. Cottage.
Owner.....Hans C. Cruchoff, 121 Bank St., San Francisco.
Architect ...None.
Contractor..F. W. Newbert & Co., 34 Powers Ave., S. F.
COST, $1490

BUILDING CONTRACTS.

MARIN COUNTY.

BUNGALOW
SAN RAFAEL. All work for one-story bungalow.
Owner.....Eleanor Gilogly, San Rafael, California.
Architect ...None.
Contractor..L. E. Warden, San Rafael.

Filed May 26, '16. Dated May 15, '16.
Frame up 25%
Rough coat on..... 25%
When completed 25%
Usual 35 days..... 25%
TOTAL COST, $2744.75
Bond, $1375.50. Sureties, R. H. Warden and Arthur E. Scott. Limit, 60 days. Forfeit, none. Plans and specifications filed.

FRAME AND IRON BARN
IGNACO, Marin County. All work for two-story frame and iron barn.
Owner.....California Fruit Canners' Ass'n., 120 Market, S. F.
Engineer ...P. L. Bush, 2321 Van Ness Ave., San Francisco.
$Contractor..Joseph Pattinson, 925 The Alameda, Berkeley.
Filed May 31, '16. Dated May 16, '16.
Frame up $300
When completed 350
Usual 35 days..... 435
TOTAL COST, $1735
Bond, none. Limit, 45 days. Forfeit, none. Plans and specifications, none.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
May 31, 1916—SAUSALITO. H W Davis to N Christiansen.May 31, 1916
June 1, 1916—"FOREST KNOLLS," San Geronimo. A Paulsen to Geo R Bintley.....May 29, 1916

BUILDING CONTRACTS.

FRESNO COUNTY.

DWELLING
LOTS 17 AND 18 BLK Fresmont Park, Fresno. Dwelling.
Owner.....Ben Birns.
Architect ...None.
Contractor..J. E. Cregar.
COST, $1900

GARAGE
LOTS 26 AND 27 BLK 90, Fresno. Garage.
Owner.....Geo. Pickford, 845 P St., Fresno.
Architet ...None.
Day's work COST, $7200

PACKING HOUSE
S TULARE, bet. 2nd and 3rd Sts., Fresno. Packing house S. P. Reservation.
Owner.....Fresno Fruit Growers, Tulare Cor. 2nd, Fresno.
Architect ...None.
Contractor..W. H. Minard, 319 Abby St., Fresno.
COST, $4000

DWELLING
LOTS 31 AND 32 BLK 1 La Sierra Tct., Fresno. Dwelling.
Owner.....Central California Land & Improvement Co.
Architect ...None.
Day's work. COST, $3750

REMODEL DWELLING
NO. 465 VAN NESS AVE., Fresno. Remodel dwelling.
Owner.....Fred L. Swartz, 564 Van Ness Ave., Fresno.
Architect ...None.
Day's work. COST, $1000

DWELLING
NO. 327 NEVADA AVE., Fresno Dwelling
Owner. ..C. A. Clark, 451 Thesta St., Fresno.
Architect . None.
Day's work COST, $1200

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
May 27, 1916—LOTS 1 TO 4 BLK "C," Fresno. Jacob Richter to whom it may concern.....May 15, 1916
May 29, 1916—LOTS 30 AND 31 BLK 1 Lale Addition, Fresno. H P Steitz Jr to whom it may concern..... .....May 27, 1916

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT
May 27, 1916—LOTS 31 AND 32 BLK 45 Arlington Heights Tct, Fresno. Fassett Lumber Co vs W S and Ethel Halliday $254
May 26, 1916—N 20 FEET LOT 40, all Lot 41 Merwyn Park, Fresno. Dan Blosser vs Evelyn and Morris Wittenberg $365
June 1, 1916—LOTS 11, 12 AND 13 Blk 4, Buena Vista Add'n., Fresno. D M Kimes cs J A Swanbon.....$20

BUILDING CONTRACTS

SACRAMENTO COUNTY.

REMODEL STORE
NO. 916 J ST., on W ½ of LOT 3 J, K, 9th and 10th Sts., Sacramento. Remodel store front.
Owner.....Nicholaus Estate.
Architect ...None.
Contractor..A. E. Erickson.
COST, $670

ALTERATIONS
NO. 414 FIFTEENTH ST., on S 40 feet Lot 4 D, E, 14th and 15th Sts., Sacramento. Remodel residence.
Owner.....G. A. Black.
Architect ...None.
Contractor..P. R. Peterson, 1502 O St., Sacramento.
COST, $450

DWELLING
COMG. AT PT. 1325 N OF SE COR. Sec. 23 T 8 R 4 th W 550 th 4—19 E 1186 th S 88—50 E 469 to W line Sacramento Southern R R right of way th Southerly 1471 to beg 17.3 acres, Sacramento. One-story dwelling.
Owner.....Geo. F. Burke, 1418½ 5th St., Sacramento.
Architect ...None.
Contractor..Cippa Bros., 314 21st St., Sacramento
COST, $2730

FRAME FLATS
E 20 FEET LOT 3 and W 20 feet Lot 4 H, I, 7th and 8th Sts., Sacramento. Three-story frame (6) flats.
Owner.....Elsie A. Varney, 810 8th St., Sacramento.
Architect ...None.
Contractor..W. R. Saunders, 2810 I St., Sacramento.
Filed May 27, '16. Dated May 26, '16.
COST, $7615

REMODEL STORES

NO. 914 SECOND ST., on S 42½ feet Lot 7 and N 20 feet Lot 6 I, J, Front and Second Sts., Sacramento. Remodel stores.

Owner.....Horace A. Carter.

Architect ...None.

Contractor..A. W. Norris, 3012 G St., Sacramento.

COST, $4289

FRAME DWELLING

NO. 1012 THIRTY-FOURTH ST., on Lot 3, Addition "A" of East Sacramento. One-story 5-room frame dwelling.

Owner.....Carl Koch, 3330 Carnell St., Sacramento.

Architect ...None.

Day's work. COST, $1500

NOTICE OF NON-RESPONSIBILITY.

SACRAMENTO COUNTY.

May 27, 1916—LOT 37 Dye Chinatown Walnut Grove. Milo E. Sperry W & Corodon Dye and Amy Brown as to improvements on leased property .....

AMERICAN MANUFACTURE OF CAST IRON PIPE.

In the American manufacture of cast-iron pipe, the number of establishments in 1914 was greater by 9 than the number reported in 1909, but the total annual value of the products decreased by 9.6 per cent in the five-year period. The United States Bureau of Census, in its preliminary statement of the results of the study of the industry for 1914, summarizes reports received from 69 establishments, the total products of which for the year were valued at $27,-574,773. Of these 69 establishments, the principal business of 61 was the manufacture of cast-iron pipe and fittings, while the remaining 8, which were engaged primarily in other lines of manufacture, produced cast-iron pipe as a subsidiary product. At the census of 1909 there were reported 52 establishments, with products valued at $29,-157,723.

The cast iron pipe product of 1914 comprised 1,092,208, net tons, valued at $25,391,714, consisting of 880,556 tons of gas and water pipe and fittings, valued at $19,218,006, and 211,652 tons of soil and plumbers' pipe and fittings, valued at $6,173,708. In addition, there were produced 26,199 tons of castings other than pipe and fittings, valued at $741,-381, and products other than castings, valued at $1,441,678.

NEW YORK GREATEST WORLD PORT

New York now leads all other ports of the world in commerce. A table just published in the Statistical Abstract of the United States for 1915, compiled in the Bureau of Foreign and Domestic Commerce, Department of Commerce, credits New York with an aggregate foreign trade of $2,125,000,000, which exceeds by $200,000,000 the commerce of London, now second in rank. In the matter of exports the pre-eminence of New York over London is even greater, export clearances from the American metropolis aggregating $1,194,000,000 in the fiscal year 1915, against $696,000,-000 from London, a difference of more than 70 per cent.

The new Statistical Abstract contains 749 pages of statistics concerning America's industries, agriculture, labor, transportation, commerce, finance, Army and Navy, etc., and foreign commerce and finances. All figures are the latest available. The volume may be purchased for the nominal sum of 50 cents from the Superintendent of Documents, Washington, or from any of the district offices of the Bureau of Foreign and Domestic Commerce.

Mastic Flooring.

For many years architects and builders have sought a flooring material for warehouses, factories, breweries and other places where extreme traffic conditions prevail or where unusual conditions make necessary a wearing surface that will resist hard usage, a surplus of water, or the action of the weaker acids. The solution of the problem lies in "Mastic" as applied under modern methods.

It has been proven by long years of use that Mastic flooring will stand up under conditions such as the handling of wire rope, heavy hardware and other materials of a like nature. Under above mentioned conditions Mastic will not crack or disintegrate as cement floors do and there is absolutely no "dusting" connected with it. For breweries, canneries and other places where fruit acids or a surplus of water is used there is no other material that will withstand such usage for a continued length of time and still retain its vitality and wearing qualities. It has proven to be the only material that will resist conditions connected with stabling horses on an upper floor, as it is impervious to water and acids.

Its resiliency under extreme conditions of heat or cold makes it a suitable flooring material in any climate.

Improved materials and improved methods of handling is bringing this flooring into greater use as its superiority becomes better known.

It has been recently installed in the Great Western Electrical Chemical Company's new plant at Pittsburg, Cal., 24,000 feet having been laid in the Eell Room. The California Fruit Canners' Association have had approximately 22,000 feet installed in several of their canneries, The Lewis Packing Co. had 10,000 feet put in their new packing plant at Columbus Avenue and Chestnut street., the Wells Fargo Stable, Folsom street near Second, has 24,000 feet and the Associated Milk Producers, 53 Clay street, are now having installed several thousand feet. The Associated Milk Producers are installing one of the most complete plants on the Pacific Coast for the handling of milk products, and the fact that Mastic flooring was selected speaks volumes for it. This work is being done by the firm of Malott & Peterson, which firm also installed the flooring in all of the above mentioned places as well as numerous other places. They have lately procured up-to-date machinery for the handling of their product and are prepared to do anything in their line anywhere. Their office is 682 Monadnock Building, San Francisco.

MERCED GRAIN ELEVATOR.

MERCED—The Merced Elevator Co. has begun the construction of a grain elevator the first to be built here and the largest in the San Joaquin Valley. It will have 100,000-sack capacity.

SMALL DAMS CONTROL FLOODS.

Series of Obstructions in Ravines Employed by Engineers.

[From the Engineering Record.]

By placing in the upper reaches of canyons and ravines obstructions consisting of small, inexpensive dams of stones and logs, arranged one above the other like the steps of a huge stairway, it is hoped to solve the flood problem in California.

Every year thousands of dollars worth of damage is done by water overflowing the banks of streams, but recently a board of California engineers began work in an experimental way, with the object of checking the high water by means of the Swiss system of flood control. They selected a ravine with steep slopes which had always given trouble in the past, and built across it a series of tiny dams, only a few feet high. Then from an artificial reservoir, built especially for the purpose at the head of the ravine they released a huge volume of water in order to simulate conditions following a cloudburst.

The wall of water started surging down the valley, but when it reached the first check dam its velocity was somewhat impeded. Still, it continued onward until it reached the second obstruction, which also acted as a quietus on the torrential flow. The process was repeated from one dam to the other, until, at the bottom of the valley, almost no flow occurred. In other words, the series of check dams acted like so many breaks stopping the onward rush of a railway train. A certain amount of water is impounded behind each dam and gradually seeps away into the subsoil, without doing any damage.

The results of the experiments as reported by Engineer Harry F. Olmsted are considered to be so successful that a big field of usefulness for the check dam method of flood control is predicted.

EDUCATION AND PREPAREDNESS.

The ebb and flow of the alien tide makes "Americanization" one of the difficult "preparedness" problems.

Our foreign population drifts from city to city, according to changes in economic advantages. And although universities, charities, patriotic societies, civic clubs and political rings all have plans for speeding up the making of new citizens, the immigrant himself, in his wanderings from town to town, somehow manages to miss half his chances

Therefore it is essential that state and federal agencies co-operate for the education of aliens along lines directed to their rapid assimilation. The government has already recognized this necessity. Within the past few months the Bureau of Naturalization of the United States Department of Labor has taken a pronounced interest in the melting pot. It is now proceeding in

most direct, the most economical d the most effective way, that is ough the public school system. But the government does not control public school system. It can only ggest improvements. And there is thing which startles and confuses average board of education quite much as a brand new idea. More er any scheme which adds to the ex nse of school administration is liable stall immediately.

Many a community which could, and ich should provide special education citizenship for foreign born adults, well as for their children does noth g at all, simply because its board of ucation is accustomed to shy at any a which is unfamiliar.

In the spring most school boards out e the work of the schools for the llowing year. Now is the time for all mmunities which are keen to keep e present pace of patriotism and pre redness to do something out of the linary for their immigrant residents. No community can shirk its duty on e plea of ignorance. Uncle Sam's reau of Naturalization has planned complete course in citizenship for the e of schools, and it provides addi oral information every month for the e of school superintendents.—Santa rbara Independent & Daily News.

OVERNMENT MAKES PAPER FROM NEW WOODS.

WASHINGTON, June 1.—That satis ctory wood pulp can be made from a mber of heretofore little known oods is evidenced by a Government blication just issued, which con ins seventy samples of paper manu ctured by different processes, chiefly om woods heretofore practically un ed for this purpose.

It is pointed out that the spruce rests of the country are threatened ith exhaustion and that the cost of ruce pulpwood has steadily increased. the price of new print paper is to be ept at a reasonable figure, say the perts, more efficient methods of con erting spruce into pulp must be de eloped or cheaper woods substituted r it.

The bulletin goes on to say that the ethod of manufacturing groundwood lp has changed very little since its troduction into this country in 1867. was with the idea of developing new ethods and improving the old that sts were undertaken at the Forest ervice laboratories at Wausau and adison, Wisconsin. As a result the lation of the different steps in the anufacturing process to each other has been definitely established and the merits of each treatment determined. The paper made from new woods was given a practical tryout by two large newspapers with satisfactory results.

The tests showed that eleven new woods give promise of being suitable for the production of news print paper, while a number of others will produce manila paper and boxboards. Most of these woods are confined to the West, while the groundwood industry now obtains the bulk of its raw material from the East. It is thought that pulp making plants must eventually move to points where they can obtain a plentiful supply of wood and an abundance of cheap waterpower, two prime requisites in the business.

Since the National Forests contain immense quantities of the suitable woods and abundant opportunities for power development, they will undoubtedly play an important part, it is said, in the future of the wood pulp industry. White and red fir are the most promising species in the National Forests in California, although lodgepole and western yellow pine and Douglas fir may sometimes be used.

CHINA'S DENSITY OF POPULATION.

PEKIN, China.—About 95 per cent of the population of China is confined to one-third of the area of the country, with a density of 200 to the square mile. Five per cent of the population inhabits 65 per cent of the area, with a density of 10 to the square mile Lack of transportation facilities and inadequate means of protection account for the sparseness of settlement in the outlying dependencies. About 40 per cent of China's population is in the Provinces south of the Yangtse River, with a density of 230 to the square mile. This territory has twice the area of the original 13 States of the American Union and four time the population.

There are no wheeled vehicles in use south of the Yangtse except on the Canton and Yunnan Railways. There are therefore no roads in this section. Rice is cultivated throughout this area, and transportation is over paths rather than roads or by boats or waterways. In this section the water buffalo and oxen are the only animals used on the farms, and goods are carried on the back of men rather than on pack animals or wheeled vehicles, except where the few miles of railways are in operation.

Rice is often spoken of as the staple article of food for the whole of the Chinese people, yet tens of millions of people in China have never seen or tasted rice. Vast areas of country in the north can not grow rice, and even in the rice growing sections millions of people are too poor to buy or use rice.

In the outlying dependencies, constituting 67 per cent of the total area of China, the density of population is less than that of the Middle West of the United States.

TRADE SITUATION IN SOUTH CHINA

HONGKONG, April 12.—The disturbed political conditions in South China have practically stopped all commercial transactions for the time being, and whatever purchases are made abroad at the present writing are in actual necessities sufficient to cover the present and immediate future needs. For two weeks at least no deliveries have been made by Hongkong houses to Canton and up-country dealers, and the exports likewise have decreased considerably; in fact, vessels are leaving this port without the full complement of cargo. As a natural result the freights have fallen from $25 and $30 and more to $10 gold per ton of cubic measurement.

A number of boats other than the regular lines have entered the trans-Pacific trade, and these have cleared up great quantities of merchandise that have been accumulating for months, and it is the general opinion among the exporters that there will not be a return to the exorbitant rates that have ruled for a year or more. The Hongkong banks believe that trade will return in a month or six weeks to the conditions obtaining previous to these troubles.

IRRIGATION CANAL OPEN.

OROVILLE—The first unit of the big canal of the Western Canal Co. is now filled with water from the Feather River. Work is being rushed upon enlarging the cut at Dry Creek. At the present time the 100 acres in rice planted by the Dodge Rice Co. are being irrigated from waters from Butte Creek.

LUMBER SHIPMENTS.

SEATTLE—Pacific Northwest mills shipped 44,756,053 feet more lumber by water in the first three months in 1916 than in the corresponding period last year this despite handicaps in making delivery and generally disturbed market conditions. The Northwest's net increase in the export trade was 7,997,35[illegible] feet, in the California trade, 71,679,941 and the net loss in the offshore domestic markets—primarily Atlantic Coast due to canal closing—was 14,706,05[illegible] feet.

THIRTY-SIX MILLION CORDS OF WOOD WASTE ANNUALLY.

WASHINGTON, June 1.—There are more than 18,000 sawmills in the United States, and their output of waste in the form of sawdust, shavings, slabs, and other wood refuse is estimated as 36 million cords per year. This is equal to over 4½ billion cubic feet of waste, which is the capacity of a bin one-[illegible] mile high with a base covering a forty acre lot. Or, considering

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

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If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francisco**

each cord to contain eighty cubic feet of solid wood with all the cracks and air spacee taken out, these 36 million cords would make a block of wood more than a quarter of a mile on each edge.

Perhaps one-half of this so-called waste product is not strictly speaking wasted, but serves a useful purpose as fuel under the boilers. Much of the remaining 18 million cords not only serves no useful purpose, but in most cases is a source of inconvenience and danger, and costs the mill time and money.

Sawmill waste is disposed of in various ways. Some goes to the local fuel market, some to pulp mills or to wood distillation plants. Shavings and hog cuttings, as well as other mill waste, are sometimes used to fill low places in the yard. However, the most common method of getting rid of waste is by burning either in a fire-pit having an open fire which sometimes has a protecting wall on the side towards the mill, or in a burner enclosed on all sides and having a spark-arresting screen at the top and a fire grate near the bottom. In both cases some kind of conveyor is necessary to bear the waste from the mill to the fire. This is usually a sort of trough with a metal bottom along which a slowly moving chain or cable, equipped with cleats or buckets, carries the waste to the fire.

A closed burner and conveyor costs about $12,000 for a mill of a hundred thousand feet daily capacity. Forty per cent of the larger mills, cutting more than 55,000 board feet daily, are equipped with closed burners. Forty-five per cent have fire-pits. The remainder have neither and dispose of their waste in some other way.

It is estimated that for a mill of one hundred thousand feet capacity the cost of conveying the waste from the machine where it is made and destroying it in a closed burner is 42 cents per cord or $10.05 per day. Burners seldom bring in any revenue, although in a few cases ashes are sold for fertilizer, and in a number of others the burner furnishes hot feed water for the boilers.

Both burners and fire-pits add to the insurance rates on lumber, and in the case of the pit on the mill itself. In order to reduce the fire hazard to zero, in the case of the burners, it is necessary to keep all lumber piles at least one hundred fifty feet away from the burner. The matter is much worse in the case of pits, especially the open ones, which must be kept three hundred feet away from the mill and five hundred feet away from any lumber piles. When nearer than these distances from the mill and yard respectively, the insurance rates mount up rapidly with closer proximity until they become practically prohibitive when the fire-pit is nearer than one hundred feet.

No well managed mill would produce waste if it could be avoided. This, however is not possible, so the next best thing is to seek out some method of utilization of the waste so it will pay for its disposition. The Forest Service is working on this problem, but has not yet found a satisfactory solution.

PROPERTIES OF CONCRETES.

The Bureau of Standards, Department of Commerce, has just issued Technologic Paper No. 58, dealing with the properties of concrete and Portland cement mortars, under the title "Strength And Other Properties of Concrete As Affected by Materials And Methods of Preparation." It includes the results of about 20,000 tests on about 300 aggregates consisting of limestone, granite, gravel, and trap rock which are used for concrete materials in various sections of the United States.

The results are of especial interest to contractors, engineers, architects, and others who use concrete, since it points out that the same aggregates a variation in strength of as much as 100 per cent may result owing to the lack of proper precautions in mixing and placing the material. The effect on the compressive strength of each of the factors, such as, type of aggregate, method of mixing, method of molding, the consistency, the density, the method of storing or curing conditions, abnormal methods of curing, characteristics of the aggregarts, proportions of cement to aggregate, age, etc., are studied separately and the results are shown in tables and diagrams. One of the most important conclusions to be derived from the results is that the use of too great an amount of mixing water, which is common in present day construction, accounts for many concrete failures. The use of an excessive amount of mixing water may result in a reduction in strength as great as would result from a reduction of 50% in the amount of cement used. The results indicate that proper methods of mixing and fabrication are as important as good cement and aggregate in producing a concrete of the best quality.

NOTE:—A recent notice relative to Technologic Paper No. 58 gave the title of the paper as "Compressive Strength of Portland Cement Mortars and Concretes." As finally issued, the publication bears the title of "Strength and Other Properties of Concretes As Affected by Materials and Methods of Preparation."

BIG MONTH FOR SACRAMENTO BUILDING INSPECTOR.

SACRAMENTO, Cal. — During the month of May, as shown by the tabulated statement prepared by Deputy Fred S. Harrison, City Building Inspector Rohl issued 80 building permits. The estimated aggregate cost of the buildings authorized by these permits is $160,527.

FRESNO BUILDING TOTALS AND BANK CLEARINGS.

FRESNO, Cal.—Forty-one building permits issued during May by L. A. Granger, City Building Inspector, represents a new building value of $63,745. This is less than the total for April which was 30 permits and a valuation of $82,670.

There were 44 permits for repairs and alterations this month, representing a valuation of $29,396. This is a greater valuation than that of April which was $27,757, although 48 permits were issued.

The bank clearings for the month of May exceeded the total for May, 1915, by almost a million dollars. The total this month was $4,400,063.12. A year ago it was $3,423,297.15.

The present month also beat the previous month of April, with its total of $4,354,001.73.

PRESIDENT OF BUILDERS' EXCHANGE UNDER SURGEON'S KNIFE.

H.Maundrell, President of the San Francisco Builders' Exchange, was rushed to the hospital last Thursday and operated on for appendicitis

The latest bulletin is very encouraging, the patient doing nicely with every indication favorable.

BUILDING BIG DREDGER.

REDDING, June 2.—Structural steel for the new dredger in course of construction at Carrville, Trinity county, is being hauled from Redding to the site. The cost of transporting the lot will exceed $75,000, according to the contractors.

FOREIGN TRADE FOR APRIL.

American exports in April reached a total of $404,300,000, which is $6,500,000 less than the record figure of March, but $1,000,000 more than the total for February. It is estimated, however, that the exports per working day in April were valued at $16,200,000, exceeding the daily average for March by $1,000,000. For the 10 months ended with April American exports totaled $3,401,100,000, an increase of $1,175,-300,000 over the like period of last year.

Imports for April amounted to $217,-800,000, or $4,200,000 more than for March and exceeding by $65,200,000 the April average for the preceding 5 years. Imports for the 10 months period ended with April totaled $1,722,-400,000, an increase of $348,200,000 over the corresponding period last year and unequaled by the corresponding period of any previous year.

The favorable trade balance for April was $186,542,616, being over $52,-000,000 larger than that for April, 1915, and comparing with an import balance of $11,209,544 in April, 1914. Ten months to the end of April last gave a total excess of exports over imports of $1,678,700,000, almost double the favorable balance of $851,600,000 for a like period of a year earlier.

Of the April imports, 67.9 per cent entered free of duty, as against 63.6 per cent in April, 1915.

Movement of Gold.

During April there was a net outward gold movement of $5,400,000, compared with a net inward movement of $15,400,000 in April 1915. The ten ten months to April 30 this year, however, showed a net inward movement of $273,900,000, as against a net outward gold movement of $54,000,000 last year. The respective totals were: April imports of gold, $6,100,000 in 1916, against $16,200,000 in April, 1915; April exports of gold, $11,500,000, against $800,000 in April last year. Ten months' gold imports $343,900,000 in 1916, against $88,100,000 last year; ten months' gold exports, $70,000,000 in 1916, compared with $142,100,000 last year.—Commerce Reports.

DEPOSITS OF MAGNESITE FOUND NEAR VENTURA.

VENTURA, Cal.—Rich deposits of magnesite have been found on the Stockton ranch, near Santa Paula, as a result of the investigations there by officials from the state department of mineralogy. This mineral, which has brought fortune and activity to the Porterville and other districts of the state, is said to exist in great abundance on the Stockton property, which lies just south of the city of Santa Paula.

9 company composed of Ventura and Los Angeles men is at this time figuring with Mr. Stockton for the purchase of the property and in case they conclude the deal it is the plan to develop all the potential resources of this property which has more varied possibilities than any similar piece of land in this county.

WHAT "LLOYD'S" IS.

[From the "Kansas City Star."]

LONDON (by mail)—"Lloyd's reports that the steamer Minneapolis has been sunk. All were rescued except eleven killed."

"Lloyd's announces——." It has "announced" the sinking of vessels of practically every neutral nationality in Europe to say nothing of merchantman after merchantman belonging to the allied nations. "Lloyd's announces."

But exactly what and where is Lloyd's? Most Britishers have a misty idea that Lloyd's is connected with shipping and with marine insurance, but there the knowledge of the ordinary man-in-the-street ends, even though he may wend his way past Lloyd's every day of his life.

Lloyd's is Britain's great market place for maritime insurance. It is a sort of stock exchange for the underwriters of England, who meet daily within its walls and "make the price" in different sorts of risks exactly as the brokers and jobbers make the prices of shares on the real stock exchange. It forms part of the royal exchange, close to the Bank of England. Many Americans, in times of peace, visit the royal exchange with the object of seeing the fine historical paintings there.

You Can Insure Anything.

Though Lloyd's began as a market for marine insurance only, one can now insure anything on earth there, with the exception of human life. There is no risk of so freak a nature that the brokers who make up Lloyd's will not quote you a rate for it. You can insure there against an earthquake or a Zeppelin raid, or against the chance of your wife's having twins. The right arms of Paderewski and Kubelik have been insured there, and also the front legs of a famous Australian "boxing kangaroo." Lloyd's will have a deal with a king or a clown. They will insure the king's throne and crown and the succession of his dynasty, and they will insure the clown in regard to his punctual arrival at town after town, hall after hall, in time to give his show. They will insure one against the unsuccessful result of an operation for appendicitis or against having an action for breach of promise decided against one.

In dealing with a member of Lloyd's, moreover, you are pretty certain to be doing business with a man of proved standing, integrity and financial soundness. Every candidate for election has to "show" the governing committee on these points, and guarantee himself. Twenty-five thousand dollars is the smallest sum he may deposit as additional security for possible liabilities. The total of the amounts so deposited is over 17 million dollars. To be allowed to pass the portals of Lloyd's is a privilege none to easily won. Once inside one has one's finger on the pulse of the marine world. So remarkable has become the network of agencies that Lloyd's has instituted in every seaport of the globe that, standing beyond the barrier, you may know exactly where each of the hundred thousand ships that plough the seven seas are at that moment. The agents number over 2,000, and in the course of a single year they send 100,000 telegrams to Lloyd's and an even greater number of letters.

Prompt Pay at Lloyd's.

Lloyd's deals in big figures. When the Oceana, laden with bullion for India, went down in March, 1912, as the result of a collision with a German barque off Beachy Head, and the tugs failed to reach her, the underwriters went to work, and within twenty-four hours had handed over 3¾ million dollars to the Bank of England to make good the loss and enable Threadneedle Street to dispatch a duplicate golden cargo by the very next boat leaving for Bombay. The amount of insurance on the Titanic was more than 10 million dollars. But though a Lloyd's broker will underwrite practically any risk, it is a rare thing for one of them to assume the entire responsibility therefor. What generally happens is this: Suppose a ship of one hundred tons is to be insured for $100,000. The owner gets a broker to draw out his policy and this is taken to an underwriter. The first underwriter may agree to become responsible for $10,000 of the $100,000. The policy is then passed on to other members of Lloyd's and—particularly if the first indorsement is a good one—these others will take up the remainder of the risk. They append their names under the first signature and thus become, literally, "underwriters." That is the origin of the phrase.

Lloyd's started in a little coffee tavern. After the fire of London business people with common interests began to make it their practice to meet together at some convenient place, and nowhere was so convenient as the coffee houses. West India merchants assembled at the "Jamaica," the stock jobbers had a rendezvous at "Jonathan's," and gradually those interested in shipping congregated at Lloyd's, a small place situated in Tower street, near the Tower of London, and owned by one Edward Lloyd. The late Col. Sir Henry M. Hozier, secretary of Lloyd's from 1874 until 1906, collected some interesting details about these early days of the great institution.

"Edward Lloyd was a man of intelligence," wrote Colonel Hozier. "Besides organizing the merchants and marine insurers who congregated at his tavern, he started Lloyd's News, the forerunner of the present Lloyd's List, which is the oldest newspaper in the country with the exception of the London Gazette."

Before long the little coffee house became connected with various gambling and speculative transactions. The lives of those who had to pay the penalty for breaking their country's laws were insured at Lloyd's as a sort of speculation; also when any great statesman, or great leader of a party, fell ill his life was insured at Lloyd's coffee house at a premium of 5 per cent. Travelers who went abroad were able to insure their safe return, but the premium was tolerably high. One traveler by the name of Henry, who went to Constantinople, insured his return for $6,000, but he had to pay $2,000 premium for it. In 1692 the coffee house was removed from Tower to Lombard street, and in 1774 Lloyd's left the tavern to take up premises in the Royal Exchange, where it has since remained.

When a Ship Is Lost.

I visited Lloyd's a few days ago, between 3 and 4 in the afternoon, the busiest time in the day, when some thousands of men congegate in the famous underwriting room. The underwriting room is a large, long, lofty chamber with a domed ceiling, down either side and along the center of which are rows of low pews—technically known as boxes—each of which contains a narrow writing table. Here the underwriters sit with their clerks beside them to record the risks accepted, sign policies or take down claims. At the end of each writing table is a wire basket in which are placed the signed policies ready for collection by the brokers, and the two broad gangways are thronged by an ever shifting and busy crowd of these and their clerks going to and from one underwriter or group of underwriters to another, most of them carrying in their hands neat leather cases of "slips" on which are written all the particulars of the risks offered and taken.

On the left as one enters is the desk of the superintendent of the room, and a little beyond is a reading desk on which rests open one of the most fateful volumes in existence. It is a great tome bound in green leather, known as the "Loss Book, in which each day is written the list of the casualties at sea. In normal times the merchant navies of the world lose nearly twelve hundred vessels every year, upon which Lloyd's pay out insurance. What will the total be this year, I wonder? At Lloyd's they refused even to hazard a guess.

As we walked about, my guide suddenly laid his hand on my arm. "Listen!" he said.

He pointed to the top of the partition screen, where I saw what was evidently hung an old ship's bell, around which hung a mass of rusty rudder chains. Beneath it was a sort of pulpit, topped by a great sounding board, in which stood another gorgeous robed official of Lloyd's who is known as the "caller." The hubbub in the great room had ceased as if by magic. The caller pulled a cord and the great bell tolled once.

"That means that a ship has gone down," said my guide. "The details will be posted in the 'Chamber of Horrors.'"

The ancient bell is that of the once tall frigate Lutine, which, captured from the French, became a British vessel of war. In 1799, when laden with treasure worth upwards of 5 million dollars, she went down in the Zuider Zee, with only a single member of the

crew surviving to tell the story of the loss to British capitalists. Successive generations of divers did their utmost to reclaim her cargo, but they got back only a little over ½ million dollars, and the rest remains for the fishes and mermaids But the bell of the old ship was recovered more than half a century after the loss and, presented to Lloyd's, has ever since been the tocsin of that institution. When a vessel is "posted" the old bell tolls once. In the unusual event of a ship arriving in port after having been "posted," the bell is struck twice and the "caller" makes his announcement from the rostrum.

STEREOPTICAN LECTURE ON TILING.

Mr. Walker, of the National Manufacturers' Association of the United States, will lecture before the members of the General Contractors' Association, 110 Jessie St., on Tuesday night.

Mr. Walker is recognized as one of the best informed men in this line of material. His lecture ought to be very interesting and instructive.

MINE OUTPUT OF CALIFORNIA.

The value of the entire mine output of gold, silver, copper, lead and zinc in California in 1914 was $25,710,-645, which is $1,101,842 less than the value in 1913. The decrease is mainly due to the falling off of the production of copper brought about by the closing down of certain large properties soon after the outbreak of the war. Since the close of the year, however, these plants have resumed operations.

Water Regulations in Salvador.

The careful utilization of river water in Salvador is shown in the new water regulations issued by the Minister of Fomento and published in the Diario Oficial of April 27, placing the water supply from the river Pampe and all its tributaries in charge of the municipality of Chalchuapa. A water bureau will be erected by the municipality to arrange for the distribution of water for drinking purposes, for irrigation and other agricultural use, and for power needed by the electric-light plant. Water for each of these purposes may be taken only at assigned hours. The water bureau will have the responsibility of maintaining pipes and drains in repair, and of keeping the water pure from its source to the intakes.

UNIVERSAL MILITARY TRAINING INDORSED BY WAR SECRETARY.

WASHINGTON—Universal military training in the United States has been indorsed by Secretary of War Baker. Secretary of the Navy Daniels has expressed opposite views.

Opinions of the two Cabinet officers were obtained after Senator Chamberlain of Oregon, chairman of the Senate military affairs committee, announced his intention of pressing for passage of his bill, now before Congress, providing for universal military service.

PETROLEUM AS LOCOMOTIVE FUEL.

Figures just made public by the United States Geological Survey disclose a marked increase in the use of petroleum as a locomotive fuel by the railroads of the United States in 1915. The data at hand shows that the quantity of oil fuel so consumed last year was 36,648,466 barrels, an increase of 5,555,200 barrels or 18 per cent over the similar consumption in 1914. This increase is ascribed to the relatively low prices prevailing for fuel grades of oil during the last year and a half as a result of the increased production of low-grade crude in the Gulf Coast States and in Mexico and of the augmented output of suitable residuals from refineries operating in ever-increasing number in Oklahoma and Kansas.

The total distance covered by oil-burning locomotives in 1915 was 124,-255,525 miles and the average distance covered per barrel of oil fuel consumed was 3.39 miles. Oil fuel is now used to some extent on 40 railroads in the United States, having tracks in 21 States.

DO YOU KNOW THAT

Rural sanitation is a health protection to the city-dweller?

It's foolish to educate a boy and then let him die of typhoid fever?

The U. S. Public Health Service issues a free bulletin on the summer care of infants?

Exercise in the garden is better than exercise in the gymnasium?

Clean water, clean food, clean houses make clean healthy American citizens?

The State of California has reduced its typhoid death rate 70% in the past ten years?

Rats are the most expensive animals which man maintains?

It is estimated that the average manure pile will breed 900,000 flies per ton?

WANT STREET NAME CHANGED.

Residents and property owners on Lundy Lane have petitioned the Street Committee of the Board of Supervisors to change the name of Lundy Lane to Lundy Avenue. The street is two blocks in length. The matter has been referred to Wm. H. Griffin, Inspector of Complaints and Housenumbers in the Bureau of Building Inspection of the Works Board.

ACTION OF CONCRETE AND REINFORCING STEEL ON FLOOR SLABS.

URBANA, Illinois.—Tests to determine the action of concrete and reinforcing steel in floor slabs of the flat slab type of building construction have been made by the Engineering Experiment Station of the University of Illinois on the Shredded Wheat Factory at Niagara Falls, N. Y., the Soo Line Freight Terminal at Chicago, the Schulze Baking Company Building at Chicago, the Curtis-Leger Company Building at Chicago, and a special test structure at Worcester, Mass.

The methods employed and the results are given in Bulletin No. 84 of the Engineering Experiment Station by Professor A. N. Talbot, and W. A. Slater. The data obtained have been analyzed with the results that many new facts of interest and importance to designers and builders of concrete flat slabs structure have been developed.

Copies of Bulletin No. 84 may be obtained from W. F. M. Goss, Director, Engineering Experiment Station, Urbana, Illinois.

PROPOSED UNIFORMITY IN CENTRAL AMERICAN SCHOOLS.

The International Central American Office, in the last issue of its organ, "Central-America," presents a plan for a uniform system of instruction throughout Central America. It is expected that this plan will bring out a discussion which will eventually lead to a certain uniformity in the educational systems of the various Central American schools. The International Office emphasizes the desirability of extending and improving the rural schools, and also calls attention to the need of broad practical training in preference to philosophical and literary instruction. Among the practical courses mentioned are those in arts and trade for both men and women—instruction in telegraphy, electricity, commerce, agriculture, mechanics, and engineering. In addition to the usual courses in mining and civil engineering, a course in municipal engineering is proposed which would prepare prospective city officials along the lines of architecture and general construction, streets and parks, sanitation, water supply, electricity, contracts, and statistics.

SUES STATE HIGHWAY CONTRACTOR FOR $12,053.

OROVILLE (Butte Co).—Ralph McMurray has instituted suit against P. L. Burr, a State Highway contractor, and his surety company, the Massachusetts Bonding & Insurance Company, for $12,053.71, alleged to be due on various assigned claims that, it is alleged, Burr has not paid.

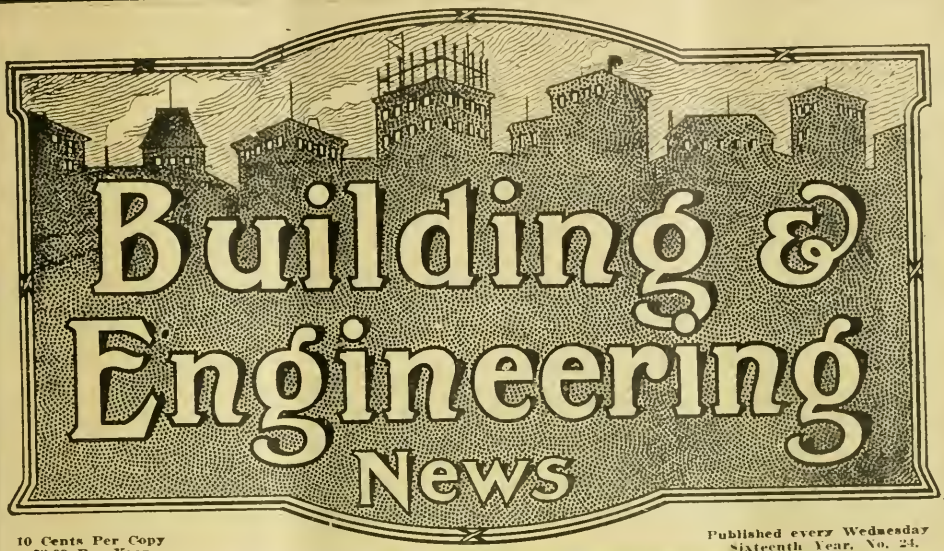
Following is a list of the claims: Lucas & Crowder, $575.77; J. B. Stewart, $163.44; Chico Ice and Cold Storage Company, $17.30; Sam Morton, $354.27; H. Comforth, $1,112.94; F. M. Feith, $2,553.71; Diamond Match Company, $1,214.46; James H. Jones & Co., $121.75; Vel E. Garner, $160.45; Fred M. Pfeffer, $75.62.

THE PUT-IT-OFFS.

My Friend, have you heard of the town of Yawn,
On the banks of the River Slow,
Where blooms the Wait-awhile flower fair,
Where the Sometime-or-other scents the air,
And the soft Go-easys grow?

It lies in the valley of What's-the-use
In the Province of Let-'er-slide;
That tired feeling is native there,
It's the home of the listless I-don't-care,
Where the Put-it-offs abide.

The Put-it-offs smile when asked to work,
And say they will do it tomorrow;
And so they delay from day unto day,
Till death cycles up and takes them away.
And their families starve, beg or



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Drainage	Schools	Court Houses
Bridges	Churches	Office Building
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Harbor Work	Theatres	Hotels
Lighting Systems	Flats	Government Work
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560 Mission Street.
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Circulates among the leading Engineers, Surveyors, Architects, Contractors and Municipal Authorities on the Pacific Coast.

Advertising rates on application.

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SOLUTION OF TRANSPORTATION PROBLEM IN SAN FRANCISCO OFFERED BY ENGINEER.

To relieve congestion on Market street and to solve the transportation problem in San Francisco, an elevated speedway will be constructed along that thoroughfare, if the plan suggested to the Board of Supervisors by Civil Engineer A. B. Burt, 2307 Baker street, is carried out.

The suggestion offered by Engineer Burt provides for the construction of an overhead structure, the cost of which is estimated at $500,000 per mile, will start at the foot of Market street ending at the Civic Center, a distance of about three miles.

A copy of the letter sent the Board of Supervisors by Burt has been forwarded to City Engineer M. M. O'Shaughnessy for report and is as follows:

"All large cities have to solve from time to time their transportation problems due to increase in population, improvements, the saving of time and changing conditions.

New York has spent hundreds of millions of dollars on subways and elevated railroads. It cost the Pennsylvania Railroad something like three million dollars for every minute of time saved to enter New York City.

The problems of transportation in each city are entirely different that it requires a special study to cope with and overcome them, to arrive at the best and most economical solution.

The day of individual motor transportation is coming to the front so rapidly that very little provision has been made for it in the past and now we are forced to face this problem in all large centers of civilization and provide for the future. The only logical means to provide and relieve congestion due to motor transportation is to elevate the light travel and make room for the heavy travel on the surface.

San Francisco is especially favored with a wide thoroughfare to permit of a light overhead structure to span the four car tracks which can be used for all rubber tired motor cars except trucks and large sightseeing cars. A structure of the kind could not be objectionable or interfere in any way with store, offices, or business houses along the street. On the other hand it would remove objectionable features such as poles supporting cables and cross wires. The overhead structure could be converted into a boulevard and also utilized to support brackets for an admirable lighting system. It could be made very beautiful and in this way it would enhance instead of depreciate the property values on Market street.

It is proposed to build the overhead structure from the Ferry Building to the Civic Center on Van Ness avenue, a distance of about three miles.

At the foot of Market street on the Embarcadero, a large loop could be built with passenger platform and overhead foot bridges entering into the second floor of the Ferry Building, also stairways connecting with the sidewalks on both sides of Market street. Inclines or runways on a ten per cent grade could also be constructed for motor cars leaving and entering the overhead loop to and from the street.

As a means for connecting overhead with the surface at other points along Market street, inclines or runways could be built where space will permit, such as the foot of Bush street, New Montgomery street, Grant avenue, Golden Gate avenue, Civic Center and the terminus. These runways need only be wide enough for two cars abreast and if necessary a heavier grade than ten per cent could be used to shorten the approach.

The overhead structure spanning the four car tracks would be approximately 48 feet wide and could easily take six automobiles abreast—three in both directions. The surface or floor of the structure could be laid with a non-skid pavement such as concrete with a rough finish. The surface of the inclines could also be non-skid. Between the outside posts of the structure and the curb on the street there is space for two vehicles to pass.

Ample space for parking machines could be provided either in the center of the overhead at convenient points or by building short extensions on side streets.

An extension coulde be built on Third or Fourth streets or both, to the Southern Pacific Depot. These extensions would only span two car tracks or be half the width of the main structure on Market street.

Stairways could be built from the present safety station at street intersections to connect with the overhead.

To relieve the overcrowded street cars the city could operate improved "Fagel" trains to accommodate the local travel on Market street. This would meet all requirements for down town transportation for years and would be a source of revenue to the city.

The total cost of the structure is estimated at $500,000 per mile.

The above outlined plan gives the maximum transportation facilities at a minimum cost and is the only feasible solution to the transportation problem of San Francisco."

Among the items in the budget for Municipal expenditures in San Francisco for the year 1916-17 we notice, under the heading of "Bureau of Architecture," the item of "One Quantity Surveyor" with an appropriation of $1980.

This is the first time in the history of San Francisco, and we believe in the history of any other American city that provision has been made in an annual budget for compensating the official who prepares quantities, under his proper title of "Quantity Surveyor." We are surely progressing, for it was not so many years ago that the word "quantities" was, if we may say so, and unknown quantity, and the Quantity Surveyor was never heard of at all But we are learning and we are slowly coming to the only sane way of estimating, which is for owners to say clearly in black and white exactly what it is they want bidders to estimate upon.

This movement is growing fast, as it should, and it is not to be overlooked that it was born in San Francisco.

W. P. TO BUILD FIFTEEN FEEDERS.

The reorganized Western Pacific Railroad with a capital of $70,000,000 has been incorporated. A million and a half of the stock paid in makes provision for building 15 branch lines adding 334 miles of track to the system, according to the articles of incorporation.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 4 story and base. Class C construction, $85,000. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southeast corner of O'Farrell and Hyde, covering an area of 70 by 77½ feet. Will contain a total of 70 rooms arranged in suites of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning plant, automatic elevator, vacuum cleaning and hot water system. Bath rooms tile floors and wainscot. Marble and tile wainscot in entrance. Wall beds. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

OAKLAND, CAL.—Apartment houses, 2, 2 story and base, frame, $10,000. Architect, none. Owner, V. Z. Rutherford Thomson Bldg., Oakland. Location, west Perkins north of Van Buren. Each building will contain 24 rooms arranged in two, three and four room suites. Interiors finished in pine and hardwood with some white enamel Hardwood floors. Open fire places. Mantels tile and brick. Tile floors and wainscot in bath rooms. Wall beds. Hot water supply. Exterior covered with cement plaster. Plans complete and subfigures being taken from non-union contractors.

OAKLAND, CAL.—Apartment house, 2 story and base, frame, $55,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, United Home Builders, 1529 Broadway. Location, Oak and 15th streets. Will contain a total of 30 suites of three, four and five room apartments. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Tile baths Wall beds. Steam heat, oil burning system and hot water supply. Exterior covered with cement plaster. Revised plans complete and in the hands of the owners who are taking subfigures.

LOS ANGELES, CAL. — Apartment house, 3 story and base, brick. Cost not stated. Architect, Leonard L. Jones Delta Bldg., L. A. Owner's name withheld. Location, northeast 23rd street and Central avenue, covering an area of 117 by 126 feet. Will contain six stores on the ground floor and 46 rooms above. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water supply. Oil burning equipment Patent store fronts and marble bases Exterior faced with pressed brick Plans are being prepared.

Contracts Awarded.

STOCKTON, SAN JOAQUIN CO. CAL.—Apartment house, 3 story and base, brick, $26,250. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, Thomas F. Walsh. Contractor, L. S. Peletz, 428 East Fremont street, Stockton. Contract price, $26,-250.

BONDS

WATSONVILLE, SANTA CRUZ CO. CAL.—Watsonville voted bonds of $125,000 for schools last week. The proceeds of the sale of the bonds will finance the construction of a $100,000 high school building and a $25,000 grade school.

NELSON, BUTTE CO., CAL.—The Supervisors have authorized a $10,000 bond issue in the Nelson School District. Plans for this building have been prepared by a Chico architect.

EUREKA, HUMBOLDT CO., CAL.—A county bond issue of $1,500,000 for the construction of a permanent system of paved concrete highways to connect all larger centers of population in Humboldt County is recommended in a lengthy report filed with the Board of Supervisors by the Humboldt Couney Highway Commission.

The Commission has been investigating the subject for three years and every phase of the road problem is considered and discussed in the report

AUBURN, PLACER CO., CAL.—It is expected that the City Trustees will call a bond election at their next meeting to vote bonds of $25,000 for the paving of the main streets between the two railroad stations in Auburn.

YREKA, SISKIYOU CO., CAL.—The Trustees of the Siskiyou Union High School have voted to establish a branch high school at Sisson, to be known as the Sisson High School.

ALBANY, ALAMEDA CO., CAL.—Only fifty votes were cast against the $75,000 bond issue for a new school and additions to the present building. Approximately $40,000 will be used in the erection of the new building, which will include the purchase of the necessary site.

RED BLUFF, TEHAMA CO., CAL.—The Supervisors have sold the $15,000 issue of school bonds. The proceeds of the sale will finance the improvement of the present schools and the purchase of playgrounds.

FRESNO, FRESNO CO., CAL.—July City Council to receive bids for the purchase of the $500,000 issue of sewer bonds. The ordinance calling for the sale has been passed by the Council.

FRESNO, FRESNO CO., CAL.—It is probable that August 29th will be the date set by the County Supervisors to vote on the question of issuing and selling bonds of $3,600,000 for a county good road system. The proposed system will include 441 miles of road.

RIVERSIDE, RIVERSIDE CO., CAL —No county bond election will be held for voting bonds to rebuild the bridges washed out in the recent storms. This was made public at the last meeting of the Supervisors.

BAKERSFIELD, KERN CO., CAL.—The election to vote park bonds in the amount of $150,000 was defeated

RIVERSIDE, RIVERSIDE CO., CAL —The $40,000 school bond issue held last week carried. Plans for the building will be ordered shortly.

SAN BERNARDINO, SAN BERNARDINO CO., CAL.—An election will be held July 25th for the purpose of voting bonds in the sum of $140,500 for improvements, etc., as follows: Steel bridge over Warm Creek on Third street, $12,000; steel bridge over Warm Creek on Arrowhead avenue, $7,000; steel bridge over Lytle Creek at Mt Vernon avenue, $25,000; levees and fill Work, total $19,500; storm water drain pavement thirty feet in width along center of A street, Third to Hihland avenue, property owners to pay for additional thirty feet, cost $40,000; street repairs, $20,000; fire protection, $17,000 An additional $11,000 for the construction of a 285-feet bridge across Warm Creek at First street between Arrowhead and D streets has been added to the above amounts.

BRIDGES, DAMS AND HARBOR WORK

SAN JOSE, SANTA CLARA CO., CAL —Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor San Jose. Owners, Santa Clara County. Plans and specifications for a reinforced concrete bridge on Fort Hill avenue near Shell place in Supervisorial District No. 1, in the County of Santa Clara, were approved by the County Supervisors at their last meeting and the Clerk ordered to advertise for bids up to July 3rd at 11 a. m. Plans may be had from the Clerk of the Supervisors.

SAN JOSE, SANTA CLARA CO., CAL —Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Engineer has been instructed by the Supervisors to prepare plans and specifications for a reinforced concrete bridge over the Llagas Creek on Church avenue in Supervisorial District No. 1. Bids will be called for on the approval of the plans.

VISALIA, TULARE CO., CAL — Bridges, reinforced concrete and timber. Cost not stated. Engineer, County Surveyor, Visalia. Owners, Tulare County. The County Supervisors at their last meeting instructed the County Surveyor to prepare plans and specifications for the following named bridges: Kings River bridge, Elk Bayou bridge, Rocky Ford bridge, and Elk Bayou Ditch Company's Canal bridge. The County Clerk was instructed to advertise for bids on these structures. Bids to close July 5th at 2 p. m. Plans may be had from the Clerk of the Board of Supervisors at Visalia.

FAIRFIELD, SOLANO CO., CAL.—Bridge, steel and reinforced concrete. Cost not stated. Engineer, County Surveyor, Fairfield. Owners, Solano and Sacramento Counties. The Supervisors have instructed County Engineer Eager

o confer with the Engineer of Sacramento County as to new and further urveys for the bridge to be built cross the Sacramento River at Rio Vista. The plans for the bridge were pproved by the War Department last ear, but owing to lack of funds the ounty was not able to go ahead with he work.

SAN RAFAEL, MARIN CO., CAL.—Bridges, reinforced concrete. Cost not tated. Engineer, County Surveyor San Rafael. Owners, Marin County. The Clerk of the County Supervisors as been instructed to advertise for bids for installing two bridges in Nicasio District, for building a road over Wilson Hill to Mr. Goudy's District, and or improving the road near McNear's Point. Plans may be had from the County Clerk.

RICHMOND, CONTRA COSTA CO., CAL.—Earth fill. Cost not stated. Engineer, P. A. Haviland, Court House, Oakland. Owners, City of Richmond. Bids will be received up to June 19th at 8 p. m. for the construction of a rock and earth fill on the north or land side of Richmond Municipal Wharf No. 1.

PLACERVILLE, EL DORADO CO. CAL.—Bridge, reinforced concrete, $10,000. Engineer, County Surveyor, Placerville. Owners, El Dorado County. The County Supervisors have rejected all bids received for the construction of the proposed American River bridge at Coloma, because it is the intention of the Board to spend not more than $10,000 for the structure, while the bids received ranged from $14,958 to $20,500. It is probable that the plans will be ordered revised and new bids called.

SEATTLE, WASH.—Dock extension $30,000. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids will be received up to June 21st for the construction of an additional 415 feet of dock 25 feet wide at the Bell street wharf. Plans can be secured from the engineer.

Contracts Awarded

SAN LUIS OBISPO, SAN LUIS OBISPO CO., CAL.—Bridges, timber and reinforced concrete. Cost as follows. Engineer, County Surveyor, San Luis Obispo. Owners, San Luis Obispo County:

Bridge over Huer-Huero Creed—There were eight bidders, the award being made to Gutlehen Bros., New Call Bldg., San Francisco, for $12,981.

San Juan River Bridge—Eight bidders, the award being made to Gutleben Bros. of San Francisco for $18,450.

Salinas River Bridge—Eight bidders Awarded to Gutleben Bros., San Francisco, for $12,342.

Pozo Creek Bridge—Three bidders. Awarded to W. L. Gilham & Sons, 678 South Third street, San Jose, for $3,475

Pico Creek Bridge — Six bidders Awarded to E. D. Cole Construction Co. of San Luis Obispo for $5,449.

Arroyo del Puerto Bridge—Six bidders. Awarded to E. D. Cole Construction Co. of San Luis Obispo for $4,780.

Little Cayucos Creek Bridge—Eight bidders. Awarded to E. D. Cole Construction Co. of San Luis Obispo for $3,336.

Toro Creek Bridge—Eight bidders. Awarded to Theodore M. Maino of San Luis Obispo for $6,100.

Canada Verde Creek Bridge—Eight bidders. Awarded to the Midland Bridge Co. of St. Louis for $5,445.

Isom, Ross and Morganti Creeks—Three bidders. Awarded to F. F. Morse of San Francisco for $4,495.

Deleissigues and Melschau Creeks—Two bidders. Awarded to E. D. Cole Construction Co. of San Luis Obispo for $3,633.

COURT HOUSES.

COALINGA, FRESNO CO., CAL.—City hall, 2 story and base, brick, $10,000. Architects, Glass & Buttner Rowell Bldg, Fresno. Owners, City of Coalinga. Location, northwest 6th and E streets. Will contain, besides the city offices, the fire department Interior finish pine and redwood. Central heating system. Exterior faced with pressed brick. Plans are being prepared.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Factory completion, 2 story, reinforced concrete. Cost not stated. Architect, August G. Headman, New Call Bldg. Owners, J. Allec Cleaning and Dying works. Location Folsom street. Bids are being taken for the electric work on this building Following the award of this contract plans for the heating and ventilating sheet metal work, brick work and special boiler instalation will be put out for figures.

SAN FRANCISCO — Warehouse, 2 story, frame, $2,000. Engineer, W. W Breite, Clunie Bldg., S. F. Owner, L Gutte, 632 Anza street, S. F. Location north Folsom west of 8th, covering an area of 25 by 90 feet. No interior trim. Exterior covered with shiplap. Plans complete and work to be done by Day Labor.

STOCKTON, SAN JOAQUIN CO., CAL—Factory, 2 story and base, brick $12,000. Architect, Joseph Losekann San Joaquin Bldg., Stockton. Owners Wagner Leather Co., 120 Oak street Stockton. Location, southwest Hunter and Oak streets. The front portion of the building will be arranged for offices Interior finish pine and redwood. Some concrete floors. Special machinery Exterior faced with stock brick. Plans complete and figures being taken.

Contracts Awarded

WILMINGTON, LOS ANGELES CO. CAL.—Warehouses, 1, 1 and 1, 3 story and base, reinforced concrete, $48,000 Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Los Angeles Warehouse Co. Contractors, C J. Kubach Co., Merchants' National Bank Bldg., L. A. Contract price, $48,000.

FIRE HOUSES AND JAILS

REDWOOD CITY, SAN MATEO CO. CAL.—Jail, 2 story and base, brick and reinforced concrete, $60,000. Architect, Will H. Toepke, 46 Kearny street S. F. Owners, San Mateo County. Bids opened June 5th for the construction of this building show Newsom & Hennings, Sharon Bldg., S. F., low on the general construction at $44,819. No award of contract has been made. All bids for the special jail equipment were rejected. The lowest figure for this work was $22,924.

FLATS

SAN FRANCISCO—Flats, 2 story and base, frame, $12,500. Architects Heiman & Schwartz, Nevada Bank Bldg., S. F. Owner, M. E. Spiro, 309 Market street, S. F. Location, northwest Washington and Buchanan Sts. covering an area of 76 by 28 feet. Will contain two large residential flats Interiors will be finished in pine, hardwood and white enamel. Hardwood floors will be used throughout. Bath rooms will be finished in tile. Open are specified. Central heating system Exterior covered with cement plaster Plans complete and segregated figures being taken.

SAN FRANCISCO—Flat alteration, 1 story and base, frame, $3,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, west Park north of Geary. Work will consist of new interior trim, hardwood floors, open fire places, tile mantels, new plumbing, plastering and electric work. Plans are complete and figures are being taken.

SAN FRANCISCO—Flats, 2 story and base, frame, $7,000. Architect, C. Fantoni, 916 Geary street, S. F. Owner, G. B. Schiaffino. Location, south Green east of Pierce. Will contain two modern flats of five and six rooms Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular NO. 198.

The following awards have been made by the depot quartermaster, San Francisco, Cal., under office curcular No. 198, opened May 13:

Bid 2. The Geo. Lawrence Co., Portland, Ore.

3. Troy Laundry Machinery Co., 501 Mission street, San Francisco, Cal.

4. U. S. Cast Iron Pipe & Foundry Co., Monadnock Building, San Francisco, Cal.

5. Mark-Lally Co., 235 2nd street, San Francisco, Cal.

8. Weeks-Howe-Emerson Co., 51 Market street, San Francisco, Cal.

10. California Casket Co., 939 Mission street, San Francisco, Cal.

11. Western Trading Co., Blake Block, Oakland, Cal.

12. Marshall-Wells Hardware Co., Portland, Ore.

13. Dennett Bros., 514 Market street, San Francisco, Cal.

14. Yates & Co., 762 Folsom street, San Francisco, Cal.

15. Baker & Hamilton, 4th and Brannan streets, San Francisco, Cal.

18. L. Dinkelspiel Co., 20 Battery St., San Francisco, Cal.

19. John Rothschild & Co., Market and Spear streets, San Francisco, Cal.

20. Waterhouse & Lester Co., 534 Howard street, San Francisco, Cal.

21. Dolliver & Bros., 619 Mission St., San Francisco, Cal.

23. C. J. Hendry Co., 46 Clay street, San Francisco, Cal.

24. Holbrook, Merrill & Stetson, 6th and Bloxume street, San Francisco, Cal.

27. Hooper & Jennings, 100 Howard street, San Francisco, Cal.

29. Fred J. Stein, 636 Gough street, San Francisco, Cal.

32. The Spool Cotton Co., 812 Howard street, San Francisco, Cal.

34. Wolverine Brass Works, 216 Natoma street, San Francisco, Cal.

35. Keaffe & Esser Co., 50 2nd street, San Francisco, Cal.

37. Singer Sewing Machine Co., 142 4th street, San Francisco, Cal.

38. Schwabacher-Frey Stationery Co., 609 Market street, San Francisco, Cal.

39. Henrix-Luebbert Mfg. Co., 315 Howard street, San Francisco, Cal.

40. Nathan-Dohrmann Co., Geary and Stockton streets, San Francisco, Cal.

41. Pratt & Whitney Co., 16 Fremont street, San Francisco, Cal.

44. Keyston Bros., 120 2nd street, San Francisco, Cal.

45. Pacific Hardware & Steel Co., 7th and Townsend streets, San Francisco, Cal.

46. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

49. The Heyman-Weil Co., 720 Mission street, San Francisco, Cal.
50. W. P. Fuller & Co., Mission and Beale streets, San Francisco, Cal.
51. Universal Trading Co., 220 4th avenue, New York City.

Item 1. 12 coffins, octagon, No. 1—$17.03 each, bid 10.
2. 12 do, No. 2—$17.03 ea, do.
3. 15 do, No. 3—$17.66 ea, do.
5. 18 brushes, floor, 14 in—$1.90 ea, bid 50.
6. 6 bags, tool, bicycle—30c ea, bid 15.
7. 204 blades, meat saw, 24 in—$2.50 doz, do.
8. 12 cans, oil, bicycle—8c ea, do.
9. 6 chisels, caulking, left—50c ea, bid 24.
10. 6 do, right—50c ea, do.
11. 6 do, foot, 15 in—70c ea, do.
12. 6 clocks, office, 12 in face—$3.50 ea, bid 40.
13. 6 do, 10 in face—$3.15 ea, do.
14. 10 coolers, water, metal, 5 gal—$2.43 ea, bid 49.
15. 10 do, 8 gal—$3.10 ea, bid 46.
16. 10 do, 10 gal—$3.85 ea, bid 49.
17. 5 do, 15 gal—$4.92 ea, do.
18. 108 cups, mess, bluite enamel—14.2c ea, bid 11.
19. 12 furnaces, gasoline—$5.40 ea, bid 15.
20. 6 hammers, tinners', 12 oz—30c ea, bid 24.
21. 6 do, 16 oz—38c ea, bid 15.
22. 30 do, 20 oz—41c ea, do.
23. 6 hardies, half round—45c ea, bid 20.
24. 6 pairs jaws, bolt cutter—98c pr, bid 15.
25. 12 lamps, oil, bicycle—90c ea, do.
26. 144 links, connecting, self colored, ⅝ in—$10 per 100, bid 23.
27. 144 do, ¾ in—$16 per 100, do.
28. 144 do, galvanized, ⅝ in—$16 per 100, do
29. 144 do, ¾ in—$25 per 100, do.
30. 24 machines, horse clipping, 20th Century—$4.93 ea, bid 51.
31. 5 megaphones, fibre, 34 in—$2.70 ea, bid 23.
32. 216 mops, cotton, yacht, large—38c ea, bid 8.
33. 72 do, small—40c ea, do.
34. 24 papers nails, tufting, No. 4, 1 in—10c paper, bid 29.
35. 24 papers do, No. 4, 1½ in—12c paper, bid 20.
36. 24 papers do, No. 2, ¾ in—15c paper, bid 29.
37. 24 papers do, No. 2, 1 in—18c paper, do.
38 to 49. 142 needles, sewing machine, assorted sizes—55c doz, bid 37.
50. 20 carlocks, galvanized—65c ea, bid 23.
51. 75 gals paint, aluminum—$3.15 gal, bid 14.
52. 28 parts, renewals for Edison battery, oil bottles—4½c ea, bid 46.
53. 27 do, copper plates—63.75c ea, do.
54. 72 do, zinc plates—26.25c ea, do.
55. 150 ft pipe, ammonia, ⅜ in—3.84c ft, bid 5.
56. 200 ft do, 1¼ in—12.35c ft, do.
57. 7,000 ft pipe, water, cast iron, 6
58. 1,000 ft do, 8 in—$36.25 ton, do.
59. 700 ft pipe, wrought black iron, 2 in—12.56c ft, bid 45.
60. 1,000 ft do, 6 in—6.8c ft, do.
61. 3,000 ft do, 1¼ in—11.84c ft, do.
62. 12 pumps, air, bicycle—30c ea, bid 15.
63. 6 do, motorcycle—50c ea, do.
64, 65, and 66. 100,000 rivets, tubular, copper, 3-16 in, ¼ in and 5-16 in—$2.-98 per M, bid 21.
67. 20,000 do, 7-16 in—$3.38 M, do.
68. 20,000 do, ⅝ in—$6.75 M, do.
69. 20,000 do, ¾ in—$5.96 M, do.
70. 30,000 do, 5-16 in—$5.96 M, do.
71, 72, and 73. 110,000 rivets, tubular, japanned, 3-16, ¼, and 5-16 in—$65.9c M, bid 21.
74. 50,000 do, 3-16 in—$1.30, bid 15.
75. 20,000 do, ¼ in—$1.435, bid 21.
76. 50,000 do, 5-16 in—$1.34, do.
77. 20,000 do, 7-16 in—$1.34, do.
78. 40,000 do, ⅝ in—$1.54, do.
79, 80, and 81. 20 lbs rivets and burrs, copper, No. 6, 1 in—47c lb, bid 46.
82. 300 lbs sal ammoniac, grain,—14.23c lb, bid 51.
83. 300 lbs do, lump—24.18c lb, bid 19
84. 1 set saws, nest, Disston's No. 1—67c set, bid 15.
85. 6 scrapers, cabinet, 3 by 5 in—16c ea, do.
86. 6 do, tube, 4 in—$1 ea, do.
87. 3 sets screwplates, ¼ to 1 in—$17.80 set, do.
88. 6 sets do, ¼ to 1¼ in—$27.95 set, do.
89. 3 sets do, ¼ to 1½ in—$43.20 set, bid 45.
90. 720 snaps, harness, swivel, 1 in—$11 gro, bid 2.
91. 720 do, 1½ in—$11.95 gro, do.
92. 6 spoons, post hole digging—$1.25 ea, bid 46.
95. 80 papers tacks, lining, capped head—7c paper, bid 20.
98. 72 spools thread, cotton, red, No. 40—42.78c doz spools, bid 32.
99. 72 spools do, No. 60—42.78c doz spools, do.
100 to 105. 6,696 spools thread, cotton, white, assorted numbers—42.78c doz spools, bid 32.
106. 288 spools thread, linen, black, No. 30—$1.97 lb, bid 51.
107. 288 spools do, No. 35—$2.09, do.
108. 288 spools do, No. 40—$2.29, do.
109. 288 spools do, No. 50—$2.87, do.
110. 288 spools, do, white, No. 30—$1.97, do.
111. 288 spools do, No. 35—$2.09, do.
112. 288 spools do, No. 40—$2.29, do.
113. 288 spools do, No. 50—$2.87, do.
114. 288 spools do, No. 60—$2.97, do.
115. 48 lbs thread, machine, lock stich, white, 3-cord—$1.95 lb, bid 44.
116. 96 lbs do, 5-cord—$1.95 lb, do.
117. 72 lbs do, yellow, 3-cord—$2.20 lb, do.
118. 72 lbs do, 5-cord—$2.20 lb, do.
119. 3,000 towels, face, 18x36 in—18.9c ea, bid 18, for 1,560 only.
121. 3 vises, blacksmith's leg—$22 ea, bid 15.
122 3 vises, pipe, No. 3 Armstrong—$7.25 ea, bid 12.
123. 288 washers, gauge glass—$2.50 gro, do.
124. 12 wrenches, monkey, bicycle—25c ea, bid 15.
129. 16 shears, hedge, 10 in cut—$1.20 ea, bid 45.
130. 12 bits, expansion, 1¾ to 3 in—70c ea, bid 15.
131. 12 bits, twist drill, ½ in—85c, bid 11.
132. 6 do, 26-32 in—$1.14 ea, do
133. 6 do, 21-32 in—53c ea, do.
134. 6 do, 23-32 in—60c ea, do.
135. 6 do, 31-32 in—$1.02 ea, do.
136. 1,000 yds cloth, drill, 36 in wide, unbleached—16.6c yd, bid 18.
137. 24 cutters, glass, steel—16c ea, bid 11.
138. 50 hammers, claw, 13 oz—44c ea, bid 15.
139. 100 do, 17 oz—47c ea, do.
140. 100 do, 20 oz—50c ea, do.
141. 6 levels and plumbs, 9 in—$1.28 ea, bid 45.
142. 6 do, 24 in—$1.75 ea, do.
143. 1,000 lbs nails, roofing, spring head—7c lb, bid 15.
144. 1,000 yds sheeting, bleached, 54 in—23.3c yd, bid 18.
145. 1,000 yds do, unbleached—20.8c yd, do.
146. 1 roll cloth, insulating—$1.37 lb, bid 46.
147. 2 gauges, pressure, 5 in—$2.25 ea, bid 12.
148. 2 handles, ratchet auger—$1.40 ea, bid 46.
149. 24 handles, drawer, drop—23c ea, bid 46.
150. 72 keys, blank, rim lock—$4.50 lot, bid 15.
151. 2 machines, knife splitting—$8.-50 ea, bid 6.
152. 4 qrs paper, stencil, typewriter—$2 qr, bid 38.
153. 1 punch, tinners' lever—$28.47 ea, bid 51.
154. 1 set punches, tinners'—75c set, bid 46.
155. 2 scrappers, tube, 4 in—$1.65 ea, bid 45.
160. 1 tool, lathe threading—$2.45 ea, bid 46.
161. 5 tubes paint, coach striping, imitation gold—25c tube, bid 50.
162. 5 tubes do, coach painters' red—30c tube, do.
164. 5 tubes do, coach black—15c tube, do.
164. 5 tubes do, chrome green—20c tube, do.
165. 5 tubes do, azure blue—20c tube, do.
166. 3 triangles, xylonite, 45x90 deg.—$1.22 ea, bid 35.
167. 3 do, 30x60 deg.—80c ea, do.
170. 50 kettles, tea, 6 qt—60c ea, bid 24.
171. 100 pans, stew, 3 qt—14c ea, bid 46.
172. 50 do, 4 qt—16c ea, do.
173. 60 pots, coffee, 3 qt—31c ea, bid 15.
174. 7,000 lbs acid, oxalic—81.17c lb, bid 51.
175. 300 bolts, stove, ⅜x3 in—$1.20 per 100, bid 46.
178. 288 prs hinges, strap, galv., heavy—30c pr, bid 13.
179. 288 prs do, light—20c pr, bid 45.
180. 240 prs do, T, 6 in, heavy—22c pr, do.
181. 120 prs do, light—15c pr, do.
182. 240 prs do, 8 in, heavy—35c pr, bid 46.
183. 400 preservers, life, belt—98c ea, bid 8.
184. 288 pulls, door, antique copper—20c doz, bid 45.
185. 288 do, light brass—20c doz, do.
186. 12 shears, tinners', 2½ in cut—64c ea, bid 15.
187. 12 do, 3 in cut—69c ea, do.
188. 10,000 lbs starch, laundry, corn—4.24c lb, bid 27.
189. 7,000 lbs do, wheat—7 7-10c lb, bid 3.
190. 200 balls, fuller, ⅝ in, cold—$2.70 lot, bid 46.
191. 200 do, hot—$3.20 lot, bid 12.
192. 3 bulbs, gasoline furnace — 28c ea, bid 34.
193. 72 catches, cupboard, elbow—20c doz, bid 46.
194. 48 cocks, ball, ½ in—$2.75 ea, bid 5.
195. 4 compasses, pencil—10c ea, bid 38.
196. 1 inclinometer, 12 in blade—$6.74, bid 51.
197. 4 sheets iron, galvanized, 26x96 in—6.2c lb, bid 15.
198. 1 micionometer, 1 to 2 in—$6.50, bid 46.
201. 50 lbs plaster of paris—2.75c lb, bid 14.
202. 24 screws, closet, n. p.—$2.10 lot, bid 34.
203. 15 lbs straps, pipe—11c lb, bid 12.
204. 48 washers, syphon valve, 1½ in—6 lot, bid 34.
205. 100 washers, ball cock—$3.85 lot, do.
208. 10 blankets, horse, extra heavy—$6.73 ea, bid 51.
209. 8 covers, horse, blanket lined—$8.75 ea, bid 39.

Tunnels for Laramie Canal.

The following is an abstract of the bids opened May 22 at Fort Laramie for tunnels for Laramie canal, North Platte project, specification 334:

Bid 1. MacArthur Bros. Co., New York City.
2. Reynolds-Ely Construction Co., Springville, Utah.
3. Winston Bros. Co., Minneapolis, Minn.
4. Twohy Bros. Co., Portland, Ore.
5. Young & Crook, Denver, Colo.

Excavation, type A—Bid 1, $25.50; 2, $20; 3, $28.40; 4, $30; 5, $30.

Excavation type B—Bid 1, $26.25; 2, $22.70; 3, $28.40; 4, $29; 5, $30.

Excavation, type C—Bid 1, $29.40; 2, $22.70; 3, $28.40; 4, $22.75; 5, $30.

Excavation, type D—Bid 1, $28.80; 2, $33; 3, $28.40; 4, $30; 5, $30.

Excavation and trimming for approaches—Bid 1, $80c; 2, 50c; 3, 50c; 4, 50c; 5, $1.50.

Permanent timbering—Bid 1, $44; 2, $45; 3, $36; 4, $34; 5, $34.

Concrete in tunnel, approaches—Bid 1, $6.90; 2, $8; 3, $7.50; 4, $10.40; 5, $8.50.

Concrete canal lining—Bid 1, $6.75; 2, $7; 3, $7.50; 4, $5; 5, $9.50.

Placing reinforcing steel—Bid 1, 1.5c; 2, 1.4c; 3, 1.2c; 4, 0.6c; 5, 2.5c.

18-in dry paving—Bid 1, $2; 2, $1.50; 3, $2.50; 4, $2; 5, $2.50.

14-in grouted paving—Bid 1, $2.50; 2, $1.75; 3, $2.50; 4, $3; 5, $3.

Backfill (except tunnel)—Bid 1, 50c; 2, 25c; 3, 50c; 4, 50c; 5, $1.25.

Placing drain valves and appurtenances—Bid 1, $100; 2, $5; 3, $40; 4, $25; 5, $50.

Totals—Bid 1, $212,032.50; 2, $245,-877; 3, $255,726; 4, $267,708; 5, $280,375.

Wood Stave Pipe.

Schedule of bids for furnishing, erecting, and painting continuous wood stave pipe as per specifications for the Grandview Irrigation District in con-

nection with the Yakima-Sunnyside project, bids opened at North Yakima, Wash.:

Bid 1. Pacific Coast Pipe Co., Seattle, Wash.

2. National Tank and Pipe Co., Portland, Ore.

3. Chamberlain Construction Co., Seattle, Wash.

4. Washington Pipe and Foundry Co., Tacoma, Wash.

5. Portland Wood Pipe Co., Portland, Ore.

40 in continuous wood stave pipe—bid 1, $2.35; 2, $2.98; 3, $2.50; 4, $2.30; 5, $2.37.

30 in do—Bid 1, $1.50; 2, $1.39; 3, $1.53; 4, $1.49; 5, $1.48.

Totals—Bid 1, $18,733.50; 2, $18,555.50; 3, $19,716.90; 4, $18,405.70; 5, $18,787.10.

Portland Cement.

Abstract of bids for 115,000 bbls of Portland cement received by the U. S. reclamation service, Denver, Colo.:

Atlas Portland Cement Co., Hannibal, Mo., $1.70.

Balfour, Guthrie & Co., Bellingham, Wash., $2.

California Portland Cement Co., Colton, Cal., $1.80.

Colorado Portland Cement Co., Portland, Colo., $1.40.

Dewey Portland Cement Co., Dewey, Okla., $1.50.

International Portland Cement Co., Irvin, Wash., $2.

Iola Portland Cement Co., Iola, Kans., $1.40.

Lehigh Portland Cement Co., Mason City, owa, $1.65.

Oregon Portland Cement Co., Metaline Falls, Wash., $1.95.

Oregon Portland Cement Co., Oswego, Ore., $2.20.

Pacific Portland Cement Co., Tolenas, Cal., $1.80.

Portland Cement Co. of Utah, Salt Lake City, Utah, $2.10.

Riverside Portland Cement Co., Crestmore, Cal., $1.65.

Rocky Mountain Cement Co., Blairmore, Alberta, Canada, $2.

Southwestern Portland Cement Co., El Paso, Texas, $1.85.

Standard Portland Cement Corporation, Davenport or Napa Junction, Cal., $1.80.

Three Forks Portland Cement Co., Trident, Mont., $1.90.

Union Portland Cement Co., Devils Slide, Utah, $1.85.

United States Portland Cement Co., Concrete, Colo., $1.47.

All bids show allowance of 10c each for returned sacks.

Boise, Idaho, Supplementary Bids.

The following supplementary bids were received by the supervising architect, Washington, D. C., for the extension of the U. S. post office at Boise, Idaho:

E. F. Murphy & Co., Pocatello, Idaho, $46,950.

George A. Whitmeyer, Ogden, Utah, $51,873.

R. E. Campbell, Salt Lake City, Utah, $43,865.

A. S. Whiteway, Boise, Idaho, $42,999.

North Pacific Construction Co., Pocatello, Idaho, $49,148.

Welch Bros., & Hannaman, Kalispell, Mont., $41,647.

Navajo Indian School, Building.

The following bids were received by the commissioner of Indian Affairs, Washington, D. C., for constructing various buildings at the western Navajo Indian School, Ariz.:

Item 1, 2 stone cottages; 2, employes' mess building; 3, addition to school; 4, remodeling mess building; 5, addition to stone boiler house; 6, stone gas house.

W. D. Lovell, Minneapolis, Miss., item 1, $10,625; 2, $12,586; 3, $21,898; 4, $693; 5, $1,788; 6, $1,648; 240 days.

Horton Smith, Des Moines, Ia., item 1, $9,780; 2, $11,296; 3, $21,433; 4, $698; 5, $2,049; 6, $1,666; 240 days.

George W. Stiles Construction Co., Chicago, Ill., item 1, $11,825; 2, $13,877; 3, $27,387; 4, $823; 5, $3,465; 6, $2,337; time not stated.

T. W. Hall, Farmington, N. Mex., item 1, $7,940; 2, $8,780; 3, $15,630; 4, $1,680; 5, $1,200; 6, $1,280; time 200 days.

The Unit Construction Co., St. Louis, Mo., item 1, $13,388; 2, $19,198; 3, $32,594; 4, $1,056; 5, $3,034; 6, $2,085; 180 days.

Campbell Building Co., Salt Lake City, Utah, item 1, $26,300; 2, $34,500; 3, $70,000; 4, $1,200; 5, $7,500; 6, $4,800; 300 days.

Fresno, Cal., Painting.

The contract for painting in the U. S. postoffice at Fresno, Cal., has been awarded to Patterson, Dick & Co., at $864.

Los Angeles, Cal., Vacuum Cleaning Machine.

The contract for furnishing a vacuum cleaning machine for the U. S. post office and court house at Los Angeles, Cal., has been awarded to the Spencer Turbine Cleaner Co., Hartford, Conn., at $883; time, 65 days.

Keyport, Wash., Building.

The following bids were received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for constructing three buildings at the Pacific Coast Torpedo Station, Keyport, Wash.:

Item 1, work complete; 2, do, substituting wood shingles for composition roofing.

Chris Kuppler, 1309 7th avenue north, Seattle, Wash., item 1, $11,000; 2, $11,075

Geo. Eckman, Mutual Life Building, Seattle, Wash., item 1, $8,810; 2, $8,880.

B. J. Erickson, 5011 Meridian avenue, Seattle, Wash., item 1, $10,072.50; 2, $10,122.50.

Wallin & Erikson, 850 South 5th St., Tacoma, Wash., item 1, $8,376; 2, add $30.

Booker, Kiehl & Whipple, Central Building, Seattle, Wash., item 1, $9,950; 2, $9,980;

Martin & Dugan Construction Co., Northern Bank Building, Seattle, Wash., item 1, $7,200; 2, $7,250.

Bert Ward, 513 31st avenue, Seattle, Wash., item 1, $9,880; 2, $9,931.88.

Schaar & Pohl, 721 21st avenue, Seattle, Wash., item 1, $8,056.31; 2, $8,116.31.

Honolulu, H. T., Wharf.

The supervising architect, Washington, D. C., has rejected all bids received May 1 for the construction of wharf, etc., at Honolulu, H. T.

Mare Island, Cal., Cranes.

The contract for furnishing two shipbuilding cranes at the navy yard, Mare Island, Cal., has been awarded to the McMyler Interstate Co., of Bedford, Ohio, at $10,374.

Baker, Ore., Painting, Etc.

The contract for painting, etc., in the U. S. post office at Baker, Ore., has been awarded to Jarvis & Co. at $644.

SAN FRANCISCO—Hospital ward, 1 story and base, reinforced concrete Cost not stated. Architect, Constructing Quartermaster's Office, Fort Mason. Owners, United States Government. A large number of bids were received for the construction of Ward J at the Letterman General Hospital on June 8th. All figures have been forwarded to Washington, D. C. A complete list of the bids received will be found under the heading of San Francisco in this issue.

Contracts Awarded.

SAN FRANCISCO—Officers' quarters, 12, 2 story and base, reinforced concrete. Cost as follows. Architect, Constructing Quartermaster's Office, Fort Mason. Owners, United States Government. Official awards of contracts for the construction of four single Field Officers' quarters and for eight double sets of officers' quarters to be erected in the Presidio have been made by the War Department at Washington, D. C. Mahoney Bros. were awarded the general construction, reinforced concrete being selected, as follows: Four sets of single Field Officers' quarters, $19,879.36; eight double sets, $64,021.96. Total, $83,900.96. Wm. F. Wilson Co. awarded the plumbing, four sets of single quarters, $2,879; eight double sets, $7,392. Total, $10,271. Burnham Plumbing Co. was awarded the heating, four single sets, $2,220; eight sets, $6,600. Total, $8,820. E. A. Mantell was awarded the electric work, four single sets, $1,358; and eight double sets, $4,793. Total, $6,151.

HALLS AND SOCIETY BUILDINGS

SACRAMENTO, CAL.—Lodge hall, 4 story and base. Class C construction $70,000. Architect, Washington J. Miller, 417 Market street, S. F. Owners Sacramento Native Sons' Halls Association. Location, 11th and J streets. Bonds for the construction of the building have been sold and actual construction will be started not later than July 1st. Further mention will be made of the work at that time.

BAKERSFIELD, KERN CO., CAL.—Labor Temple, 2 story and base, brick $25,000. Architect, Tom Dupes. Owners, Kern County Labor Temple Association. Location I street between 21st and 22nd streets, covering and area of 42 by 110 feet. Will contain offices banquet rooms, meeting rooms and a large auditorium. Interior finish pine with some hardwood floors. Steam heat, oil burning plant. Exterior faced with pressed brick. Plans complete and ready for figures.

TAFT, KERN CO., CAL.—City hall addition, 1 story, frame, $3,000. Architect, Orville L. Clark, Brower Bldg. Bakersfield. Owners, City of Taft. An addition of one story will be be made to the old post office building, which will be used for a city hall. Besides the offices the building will house the

fire department. Exterior covered with cement plaster. Plans are being prepared.

HOSPITALS

SAN FRANCISCO — Hospital ward completion. Class A construction $10,000. Architect, August G. Headman, New Call Bldg., S. F. Owners, City and County of San Francisco. The architect has been instructed to prepare plans for the completion of the upper floor of the Pathologic ward at the San Francisco Hospital. The work will include mill work, interior trim, marble and tile work, sheet metal work and the extension of the plumbing, heating and electric work. Further mention will be made when figures are called.

FRESNO, FRESNO CO., CAL.—Hospital, 4 story and base, reinforced concrete, $70,000. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owners Burnett Hospital Association. The architects state that plans and specifications will be complete and ready for figures in about one month. The work has been described in these columns before. Further mention will be made.

HOTELS

PORTERVILLE, TULARE CO., CAL.—Hotel, 3 story and base, brick. Cost not stated. Architect, A. Kaulbeck, Marsh-Strong Bldg., L. A. Owner, Dr. C. Edgar Smith, 99th and Vermont streets, L. A. Location, Main and Cleveland streets. Will contain 100 rooms and a number of private and public baths. Interior finish pine and hardwoods. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Marble and tile in entrance and lobby Exterior faced with pressed brick.

The same owner is also having plans prepared for a large addition to the Central Garage and for a two-story and basement brick apartment house The apartment house will contain about 40 rooms. The entire investment planned will represent an outlay of $165,000. Plans are being prepared.

LONG BEACH, LOS ANGELES CO., CAL.—Hotel, 4 story and base, brick and steel, 100,000. Architect, L. F. S Syndicate, Investment Bldg., L. A Owners, C. E. Newberry and Albert Mercer. Location, Ocean Front and Collins Way, covering an area of 100 by 100 feet. Stores on the first floor besides the hotel lobby. Upper floors will contain 115 rooms and a large number of private baths. Interior finish pine and hardwood with some hardwood floors. Steam heat, oil burning plant, hot water supply and vacuum cleaning. Automatic elevator. Patent store fronts and marble bases. Exterior will be faced with pressed brick Plans being prepared.

STOCKTON, SAN JOAQUIN CO., CAL Hotel and stores, 3 story and base brick, $14,250. Architect, Louis Mastropasqua, 580 Washington street, S F. Owner, G. Firpo. Contractors, Daniel & Green, 623 West Park street Stockton. Contract price, $14,250.

IRRIGATION PROJECTS

ANDERSON, SHASTA CO., CAL.—Irrigation siphon, concrete and steel Cost not stated. Engineer, Chief Engineer, Anderson-Cottonwood District, Anderson. Owners, Anderson-Cottonwood Irrigation District. The directors of the Anderson-Cottonwood Irrigation District have rejected all bids for the construction of the Churn Creek siphon. The lowest bid was $27,500. The district will construct the siphon under the Day Labor system. The siphon conveying water under the Sacramento River into Churn Creek bottom will be nearly a mile in length. Six hundred feet of it—the under river part—will be cast iron pipe 36 inches in diameter. The rest of the siphon will be concrete pipe 4 feet in diameter.

LIBRARIES

MARTINEZ, CONTRA COSTA CO. CAL.—Libraries, 2, 1 story, frame. Cost as follows. Architect, none. Owners Contra Costa County. All bids received for the construction of the Concord and Antioch branch libraries have been rejected as being above the amount available for construction. The Concord branch will cost $2,700 and the Antioch branch $2,750. The work will probably be readvertised.

RESIDENCES

SAN FRANCISCO—Residences, 3, 2 story and base, frame, $3,000 each. Architect, none. Owners, Leigh & Schultz 419 21st avenue, S. F. Location, east 34th avenue north of Balboa. Each dwelling will contain seven rooms, bath and basement garage. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $8,000. Architect. August G. Headman, Call Bldg., S. F. Owner, Timothy Reardon. Location Upper Terrace and Clifford street. Will contain ten rooms, two baths and basement garage. Interior finish pine hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Edward Lamar, 631 Porter street, Oakland. Location, south Derby east of Ellsworth. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 3, 2 story and base, frame, $5,500 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, Oakland Investment Co. Location, Rockridge Park. Each house will contain eight rooms, two baths, sleeping porch and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Furnace heat and hot water supply. Open fire places and tile or brick mantels. Exteriors covered with cement plaster Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,200. Architect, none. Owner, W. A. Anderson, 1774 Auseon street, Oakland. Location, west Ritchie south of Hillside. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 3, 2 story and base, frame, $3,500 each. Architect, none. Owner, C. M. MacGregor, 470 13th street, Oakland. Location, northeast Everett avenue and Wellington. Each dwelling will contain eight rooms, bath and sleeping porch. Interiors finished in pine, gum and white enamel. Hardwood floors throughout. Bath rooms tile. Furnace heat and open fire places. Mantels tile and brick Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 2 story and base, frame, $4,750 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Walter Creighton Location, Country Club Highlands Each house will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood, gum and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished with tile and equipped with showers. Automatic water heaters. Exteriors covered with cement plaster Plans being prepared and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none Owners, Jesperson & Dippo, 980 38th street, Oakland. Location, south 39th west of Market. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 3, 1 story; 1, 1½ story, and 1, 2 story, frame, $2,500 to $4,000. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Alfred Cords. Location, Country Club Highlands. These house will contain from six to eight rooms, the larger two story dwelling having two baths. All will have sleeping porch. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $2,000 each. Architect, none. Owners, Syndicate Investment Co., 1520 Broadway, Oakland. Location, east 38th avenue north of Holly. Each will contain five rooms and bath. Interiors finished in pine and redwood. Open fire place and tile mantel. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none Owner, I. A. Kellogg, 3404 Champion street, Oakland. Location, north Redding west of High. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. lans complete and work to re done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 2, 2 story and base, grame, $4,500 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Waterside Terrace. Each house will contain seven rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms finished in tile and equipped ers. Exteriors covered with rustic and with showers. Automatic water heat- cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame. $4,000. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, John Hood. Location, Santa Barbara north of Indian Rock. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

BEKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame. $3,200. Architect, W. L. Broderick, 1201 Colusa avenue, Berk . . er, Mrs. Mary Hood. Location, west Oxford north of Los Angeles. Will contain seven rooms, bath and sleeping porch Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame. $2,000. Architect, none. Owner, George Noble, 2220 Central avenue, Alameda Location, 1314 Encinal avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,800. Architect, none Owner, G. H. Moore, 110 Jessie street. S. F. Location, north Beck west of 73rd street. Will contain five rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architect, Chester H. Miller, First Trust Bldg., Oakland. Location, Northbrae. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residences, 3, 2 story and base, frame, $5,000 each. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor & Elrod. Location, Rockridge Park. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile. Automatic water heaters. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

SAN FRANCISCO — Residence, 2 story and base, frame, $3,000. Architect, none. Owners, Nelsen Bros., 1100 10th avenue, S. F. Location, east 21st avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,200. Architect, none. Owner, J. R. Mulroony, 3500 Peralta avenue, Oakland. Location, south Delaware east of Peralta. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, W. S. Lloyd, 3720 Boulevard Boulevard avenue, Oakland. Location, west 60th avenue south of Eastlawn. Will contain five rooms and bath Interior finish pine and redwood with some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 4, 1 story and base, frame, $1,600 each. Architect, none. Owner, G. Taylor, 96 Pearl street, Oakland. Location, south Stowe avenue west of Newton. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect none. Owner, S. A. Warner, 5394 Princeton avenue, Oakland. Location, west Fairfax north of Princeton. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none Owner, R. K. Larsen, 1221 30th avenue Oakland. Location, west 27th avenue north of East 14th street. Will contain five rooms, bath and sleeping porch Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL. Residence, 1½ story and base, frame, $2,500. Architect, none. Owner, J. Lehman, 959 Apgar, Oakland. Location, east Park north of El Centro. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none Owner, F. L. Baxter, 2111 Hopkins street, Oakland. Location, south Hopkins east of Sheffield. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, S. A. Isakson, 1464 55th avenue Oakland. Location, east Patterson north of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $5,000. Architects Banning & Stewart, 5215 Broadway Oakland. Owners, Banning & Stewart Location, south Rockridge Boulevard east of Broadway. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame. $3,000 Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, S. B Batsford. Location, north Marin avenue east The Alameda. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

HILLSBOROUGH, SAN MATEO CO. CAL.—Residence, 2 story and base, frame, $10,000. Architect, M. I. Diggs Syndicate Bldg., Oakland. Owner, Dr Coben. Will contain thirteen rooms, several baths, sleeping porch and separate garage. Interior finish pine hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Showers in baths. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

SACRAMENTO, CAL. — Residence, 1 story and base, frame, $2,500. Architect, none. Owner, W. D. McKay, 3020

E street, Sacramento. Location, 3133 E street Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $2,500. Architect, none. Owner, G. H Carlson, Fresno. Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FERNANDO, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $50,000. Architects, Morgan Walls & Morgan, Van Nuys Bldg., L. A. Owner, Merritt H. Adamson. Location San Fernando Valley. Will contain 20 rooms, 5 baths, sleeping porches and conservatory. Separate out buildings. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water with oil burning furnace. Hot water circulating system. Open fire places and tile and brick mantels. Bath rooms tile. Exterior covered with cement plaster. Plans nearly complete and segregated figures to be taken.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $40,000. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Location, Arroyo Seco. Will contain 17 rooms, 5 baths and sleeping porches. Separate garage. Interior finish hardwood and white enamel with hardwood floors throughout. Central heating system and hot water circulating system. Oil burning plant. Bath rooms tile. Open fire places and tile and brick mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

Contracts Awarded

LOS ANGELES, CAL.—Residence, 2 story and base, hollow tile, $21,740. Architect, none. Owner, H. C. Oakley Contractors, Milwaukee Building Co., Wright and Callender Bldg., L. A. Contract price, $21,740.

WOODLAND, YOLO CO., CAL.—Residence, 2 story and base, frame, $7,024 Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. G. Stephens. Contractor, Phil Sheridan, 1510 Harmon street, Berkeley. Contract price, $7,024.

POST OFFICES

VANCOUVER, WASH.—Post office, 1 and 2 story, brick and stone. Cost not stated. Architect, Supervising Architect, Washington, D. C. Owners, United States Government. Bids will be opened in Washington, D. C., on July 14th for the construction of this building. Interior finish pine and hardwood. Steam heat and oil burning plant Marble and tile work. Exterior faced with pressed brick and cut stone Plans can be secured from either the Supervising Architect or from the Custodian of the site at Vancouver. An official proposal appears in another column of this issue.

RAILROAD CONSTRUCTION AND EQUIPMENT.

SAN FRANCISCO — Special tract work. Cost not stated. Engineer, City Engineer, City Hall. Owners, City and County of San Francisco. Bids will be opened by the Board of Public Works on June 28th for special track work on the Municipal Lines.

SCHOOLS

SAN FRANCISCO—School, 1½ story and base, frame, $35,000. Architect, City Department of Architecture, City Hall. Owners, City and County of San Francisco. Location, Folsom between Tompkins and Banks streets. Will contain six class rooms and an assembly hall. Interior finish pine with maple floors. Central heating system. vacuum cleaning and program clocks Exterior covered with cement plaster Plans complete and figures being taken. Bids to be opened on June 14th

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick and concrete. Cost not stated. Architects Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. Bids were opened by the Board of Education on June 6th for the construction of the Lincoln School. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

PALO ALTO, SANTA CLARA CO. CAL.—School, 1 story and base. Class C construction, $22,000. Architect, John J. Donovan, Dalziel Bldg., Oakland Owners, Palo Alto School District. Will contain four class rooms, library, teachers' room and office. Interior finish pine with some maple floors. Steam heat and oil burning equipment. Program clocks. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

MORAGA, CONTRA COSTA CO., CAL.—School. 1 story and base, frame, $10,000. Architect, Norman R. Coulter, 46 Kearny street, S. F. Owners, Moraga School District. Will contain two class rooms. Interior finish pine and redwood. Stoves for heating. Exterior covered with cement plaster Plans complete and figures being taken. Bids to be opened on June 17th

SPRINGVILLE, TULARE CO., CAL.—School, 1 story, frame, $2,500. Architect, F. W. Griffin, Porterville. Owners Dennison School District. Will contain one class room. Interior finish pine and redwood. Stove for heating. Exterior covered with cement plaster or rustic. Plans being prepared.

CHICO, BUTTE CO., CAL.—School, 1 story, frame addition, $15,000. Architect, State Architect George B. McDougall, Forum Bldg., Sacramento Owners, State of California. An addition, containing eight class rooms is proposed for the Chico State Normal School. If funds can be secured the work will be advertised at once. Further mention will be made.

LOS ANGELES, CAL.—School additions, 2, 2 story, frame, $25,000. Architect, Architectural Dept. Board of Education, Security Bldg., L. A. Owners. City of Los Angeles. Bids will be received up to June 22nd for two additions to be made to the Trinity School Plans can be secured from the Board of Education.

Contracts Awarded

REDWOOD CITY, SAN MATEO CO. CAL.—Schools, 2, 1 story and base, hollow tile, $24,456. Architect, N. W. Sexton, Merchants' National Bank Bldg. S. F. Owners, Redwood City. Contractor, W. D. Henderson, Monadnock Bldg., S. F. Contract price, $24,456.

SAN FRANCISCO—School, 2 story and base. frame and steel. Cost not stated. Architect, William C. Hays First National Bank Bldg., S. F. Owners, Wilmerding School of Industrial Arts. Contractor, Robert Trost, 26th and Howard streets, S. F. Contract price not stated.

PINOLE, CONTRA COSTA CO., CAL.—School alteration and addition, 1 story, frame, $6,585. Architect, James T. Narbett, 704 Macdonald avenue Richmond. Owners, Pinole-Hercules School District. Contractors, Keller & Crane, 3427 Andover, Oakland. Contract price, $6,585.

OXNARD, VENTURA CO., CAL.—School, 1 story and base, brick and hollow tile, $35,948. Architects, Allison & Allison, Hibernian Bldg., L. A. Owners, Oxnard School District. Contractor, H. F. Roberts, 203 North Marguerita avenue, Alhambra, general construction. Contract price, $35,948 Cooney & Winterbottom, Alhambra plumbing, $2,408. The Hoagland-Lakin Electric Co., Alhambra, heating, $4,190

SEWERS, STREET WORK & WATER SYSTEMS

SAN JOSE, SANTA CLARA CO., CAL.—Highway construction, $200,000. Engineer, County Surveyor, San Jose Owners, Santa Clara County. Contracts covering the construction of some 14 miles of highway were awarded at the meeting of the Supervisors last week. A complete list of the bids received together with the engineer's estimate and the names of the contractors awarded the work will be found under the heading of San Jose and the Santa Clara Valley in this issue

SANTA CRUZ, SANTA CRUZ CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer Thompson, Santa Cruz. Owners, City of Santa Cruz. City Engineer Thompson is now preparing plans and specifications for the improvement of King street and plans for the work will be presented to the City Council at its next meeting. Plans for the improvement of Branciforte street are also being prepared and will be ready for approval in two weeks.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, South San Francisco. Owners South San Francisco. Sealed bids will be received by the City Clerk until Monday, June 19th, 1916, at 8 p. m. for the improvement of 1st, 2nd and 3rd streets, from the west boundary line of the right-of-way of the United Railroads of San Francisco to the line of Mission road, or State highway; A, B, C and D streets, from the west boundary line of the right-of-way of the United Railroads of San Francisco to the respective south terminations thereof, by grading, constructing concrete curbs and concrete sidewalks, oiled macadam pavement, sewers with all appurtenances, manholes, lampholes, Y's and lateral sewers.

SAN JOSE, SANTA CLARA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Supervisors at their last meeting approved plans and specifications for the repair and construction of more than three miles of the Saratoga-Los Gatos road, in Road District No. 5, and the Clerk was instructed to advertise for bids to be opened on July 3rd at 11 a. m. lans and specifications for surfacing concrete portion of Section A of the Alviso road were approved by the Supervisors, and bids ordered received up to July 3rd at 11 a. m.

MARYSVILLE, YUBA CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer Meek, Marysville. Owners, City of Marysville. Plans and specifications are now being prepared for the following street work: First, street, from E to B; N street, from 1st to 7th; 7th street, from B to F; C street, from 6th to 7th; C street, from 1st to 2nd; 2nd street, from C to B; 3rd street, from C to B; 4th street, from C to B; 5th street, from B to D; 6th street, from B to E; D street, from 5th to 9th. All work, except on D street to 8th is to be for 5-inch hydraulic concrete base and 1½-inch Topeka wearing surface. The work on D street is to be hitulithic pavement. Further mention will be made of this work when bids are called for by the Council.

STOCKTON, SAN JOAQUIN CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Commissioners opened the following bids for the grading and paving of portions of Miner avenue, from Hunter to East street: Chambers & Heafy, Bacon Block, Oakland, $2,746.62; W. S. Gauze, 15 Park Way, Oakland, $3,043.90; Whitlock & Gorrill, Hearst Bldg., S. F., $3,468.40; F. C. McIntire, 215 East Weber street, Stockton, $2,784; W. F. Edwards, 675 31st street, Oakland, $2,869; L. T. McFadden, $2,879; Fred Loffler, 110 Jessie street, S. F., $2,475.10. City Engineer's estimate, $3,205.05. The contract will be awarded shortly.

Bids were also opened at the same meeting for the construction of a 12-inch sanitary main sewer on North El Dorado street from Sonoma to Wyandotte street: Clark & Henery, Ochsner Bldg., Sacramento, $12,298.40; Federal Construction Co., Sharon Bldg., S. F., 13,716.23; Paul & Caldwell, $10,959.60 City Engineer's estimate, $12,398.18. A contract will be awarded in a few days.

WILLITS, MENDOCINO CO., CAL.—Street paving. Cost not stated. Engineer, Town Engineer, Willits. Owners, Town of Willits. Two bids were received by the Town Trustees for the paving of the south end of Main street. The bidders were Fairbanks & Son, Willits, and D. O. Church Co., 68 Post street, S. F. The contract will be awarded by the Trustees shortly.

RICHMOND, CONTRA COSTA CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids providing for the installation of a modern sanitary system in the Richmond high school were opened by the City Board of Education at their last meeting as follows: Matthew Morton, Berkeley, $3,617; Carl Overaa, Richmond, $3,525; A. A. Beckman, San Pablo, $3,223. It is proboble that the contract will be awarded to the lowest bidder.

RICHMOND, CONTRA COSTA CO., CAL.—Street paving. Cost as follows. Engineer, City Engineer, Richmond. Owners, City of Richmond. The Municipal Improvement Co., 803 Macdonald avenue, Richmond, claim that faulty proceedings are responsible for their giving up the contract to pave a portion of San Pablo avenue. The company bid $21,054.57. Other bidders on the work were Ransome-Crummey Co. Oakland, $33,911.48 and Johnson & Shea. Central Bldg., Oakland, $34,091.89. From present indications a new call for bids will be issued by the City Council.

OAKLAND, CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on June 22nd at 11 a. m. for street work authorized under the following resolutions: That Custer street, from the southeast line of 35th avenue to the northwest line of Harrington avenue, also a portion of Harrington avenue, be graded, curbed with redwood, paved with oil macadam, sidewalked with cement sidewalks, and culverted with corrugated iron and concrete culvert, two brick manholes with cast iron tops be constructed.

OAKLAND, CAL. — Highway construction. Cost not stated. Engineer. County Surveyor, Oakland. Owners, Alameda County. Bids will be rereceived up to June 19th at 10 a. m for the improvement of East 14th street, or the main county road from San Leandro to Hayward, in Eden Road District, Eden Township, Alameda County.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on June 22nd at 11 a. m. for street improvements authorized under the following resolutions: That Fleming avenue, from the southeast line of High street to a line at right angles to the northeast line of Fleming avenue and distant thereon 175 feet northwest from the northeast line of the Chittenden Tract, be graded, curbed with redwood guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also two concrete culverts, each having maximum internal dimensions of 6 feet 4 inches in height by 6 feet in width; vitrified pipe conduits, three brick manholes, with cast iron tops and a storm water inlet with cast iron top. That cement sidewalks 6 feet wide be constructed on the western sidewalk of Vallecito Place from the southern line of East 31st street to the northeast curb line of East 27th street, where not already laid in cement or bitumen. That a portion of Fallon street be graded, curbed with concrete, guttered with brick gutters 14 inches wide, and paved with asphalt a vitrified pipe conduit, having an internal diameter of 10 inches and a brick storm water inlet with cast iron top.

VALLEJO, SOLANO CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The protest of the property owners in the northwest paving district against having the proposed street improvement work done under public proceedings was overruled by the City Council, after a report had been received from City Engineer T. D. Kilkenny, in which it was announced that the protestants represented but 40.8 per cent of the total acreage in the paving district, while the law requires that 51 per cent shall constitute a majority. The total number of square feet in the district is 1,854,561, while the area represented in the protests amounted to 756,009 square feet. Bids on this work will probably be called within the next few days.

OAKLAND, CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received on June 26th at 10 a. m. for grading a roadway and other necessary improvement work on the Wobber-Sunol road, or County Road No. 5820, leading from Sunol to Verona, in Pleasanton Road District, Pleasanton Township, Alameda County.

BERKELEY, ALAMEDA CO., CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received on June 20th at 10 a. m. for street improvements authorized under the following resolution: That the roadway of Tamalpais street, from the west extension of the south line of Shasta street north to the west line of Tailac; and Tallac from west line of Shasta street west and north to a line drawn from the point of intersection of the north line of Tamalpais street etc., be graded, construct concrete curbs, cast iron curb inlets and catchbasins with gratings; and roadways be paved with a concrete pavement 5 inches thick. That Walnut street from the north line of Berryman street north to the north line of the Highlands, and Eunice street from the east line of Shattuck avenue east to Walnut street, be graded; construct concrete curbs; cast iron concrete culverts with granite header blocks; concrete walls with concrete posts and wrought iron pipe railing and earth terracing; concrete gutters and the remainder of the roadway be paved with oiled macadam pavement.

SAN RAFAEL, MARIN CO., CAL.—Street improvement. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors the Clerk of the Board was instructed to prepare plans and specifications for macadamizing and widening the county road from Alto station to the town of Belvedere. Supervisor Burke has an order to have the County Surveyor procure levels, etc., for placing oil macadam on three miles of road in the town of Fairfax, from the San Anselmo line to the base of White's Hill, and from the station to the foot of the Fairfax grade. Bids on this work will be called when the plans have been approved by the Board.

SAN RAFAEL, MARIN CO., CAL.—Street paving, etc. Cost not stated Engineer, City Engineer, San Rafael Owners, City of San Rafael. Bids will be opened on July 3rd at 8.30 p. m. for street paving authorized under the following resolution: That a portion of the San Rafael and San Quentin Toll road which lies between the south line of Third street and the east line of Irwin street be graded and paved with a rock macadam pavement, construct concrete curbs and concrete gutters.

SACRAMENTO, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 20th at 11 a. m. for street improvements ordered under the following resolutions:

That Channing Way, from the south line of Schley avenue to the north line of lot M of Wright & Kimbrough Tract No. 20, be improved by removing and disposing of 480 square feet of concrete sidewalk, 1,928 linear feet of wooden curb and all other surplus and refuse material; constructing concrete curb on official line and grade, concrete gutter on official line and grade; 6 and 8-inch, vitrified, ironstone sewer pipe drains; placing cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; concrete manholes complete with cast iron curbs and covers; grading the space between the property line and curb; constructing concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation · inches in thickness; an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick

That Sylvan Way, from the south line of Schley avenue to the north line of lot M of Wright & Kimbrough Tract No. 20, be improved by removing and disposing of 480 square feet of concrete sidewalk, 2,507 linear feet of wooden curb and all other surplus and refuse material; constructing concrete curb on official line and grade; concrete gutter constructing 6 and 8-inch, vitrified, ironstone sewer pipe drains; constructing 6-inch vitrified, ironstone sewer pipe elbows attached; concrete manholes complete with cast iron curbs and covers; grading the space between the curb and property line; constructing concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, and an asphaltic concrete wearing surface 1½ inches thick.

That the alley between P and Q streets, from the east line of 4th street to the west line of 5th street, be improved by removing and disposing of 67.6 square feet of concrete sidewalk and all other surplus and refuse material; constructing 1 concrete catchbasin complete with cast iron curb and cover; placing 8 linear feet of 8-inch, vitrified, ironstone sewer pipe; grading the roadway and constructing thereon an asphalt pavement, consisting of an asphalt macadam foundation 3 inches in thickness and a sheet asphalt wearing surface 1½ inches in thickness.

SACRAMENTO, CAL. — Sewer construction. Cost not stated. Engineer City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 20th at 11 a. m. for furnishing materials and constructing a trunk line sewer and appurtenances in the streets, alleys and rights-of-way in the city of Sacramento: The principal items of the work are as follows: 2,126 linear feet of 24-inch, vitrified pipe sewer; 787 linear feet of 21-inch, vitrified pipe sewer; 1 manhole, 5 feet diameter; 9 manholes, 4 feet diameter.

TAFT, KERN CO., CAL.—Street improvements, $60,000. Engineer, James E. Sutton, Taft. Owners, City of Taft. Engineer, James E. Sutton, President of the Pacific Municipality Association of Engineers, has been appointed by the Taft Trustees to prepare estimates on the cost of paving the streets in the city.

Contracts Awarded.

OAKLAND, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. East 12th street, from the southeast line of 13th avenue to the northwest line of 23rd avenue, be graded, curbed with concrete, guttered with brick gutters 14 inches wide and paved with asphalt; also for the installation of catch basins, concrete culverts, brick manholes, corrugated culverts and 8-inch sewer, etc. Awarded to the Clark & Henery Construction Co., Ochsner Bldg., Sacramento.

East 16th street, from the northwest line of Fruitvale avenue to the southeast boundary line of the city of Oakland, be graded, curbed with concrete, guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide; also that two corrugated iron and concrete culverts, each having two branches, be constructed; also that each of the four existing storm water inlets in East 16th street between Fruitvale avenue and 29th avenue be replaced with a new brick storm water inlet with cast iron top. Awarded to The Oakland Paving Co., 5000 Broadway, Oakland.

Tenth street, from the east line of Alice street to the west line of Oak street, be graded, curbed with concrete, guttered with brick gutters 14 inches wide, and paved with asphalt; also a corrugated iron and concrete culvert having two branches; a sewer, having an internal diameter of 8 inches; a brick manhole with cast iron top; a lamp hole with top of brick and cast iron; Y branches, having 5-inch openings. The aforesaid sewer, lamp hole (excepting the top thereof) and Y branches, shall be constructed of vitrified sewer pipe. Awarded to The Oakland Paving Co.

EUREKA, HUMBOLDT CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. The City Council has decided to authorize the paving of two miles of streets, covering practically all of the approach to the county road at the city limits, with Fifth and B streets. The exact route of the paving has not been determined, but it is understood that it will follow from the city limits along Broadway to Cedar to B and 5th. One mile is to be done by the Johnson-Shea Co., Central Bank Bldg., Oakland, at 50c the lineal foot, for a bituminous wearing surface The other mile is to be done by the Richmondite Co. at 60c the lineal foot for Richmondite wearing surface. The contest between the companies doing the work will be keen. By the wearing qualities and general satisfaction of the pavements laid will be largely determined the character to be laid on Myrtle avenue and other streets to be improved.

BAKERSFIELD, KERN CO., CAL.—Highway construction. Cost as follows. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractors, Coast Construction Co., 68 Post street, S. F., 7½ miles between Taft and Fellows. Contract price, $14,766.15. Robert Sherer & Co., 650 Pacific Electric Bldg., L. A., 11 miles between Cameron and Mojave. Contract price $27,817.60.

NAPA, NAPA CO., CAL.—Street improvement. $2,372.65. Engineer, City Engineer, Napa. Owners, City of Napa Contractor, H. C. Mullet, Napa. Contract price, $2,372.65.

PETALUMA, SONOMA CO., CAL.—Sewer construction. Cost as follows. Engineer, City Engineer, Petaluma Owners, City of Petaluma. Contractor, J. B. Silvia, Petaluma. Contract price. 6-inch sewer, $1.25 per lineal foot.

POWER PLANTS ETC CON award

LOS ANGELES, CAL.—Water system. $25,731. Engineer, City Engineer, Los Angeles. Owners, Los Angeles County Water Works District No. 1. Contractors, Municipal and Industrial Equipment Co., Story Bldg., L. A. Contract price, $25,731.

EVERETT, WASH.—Water supply system, $473,000. Engineer, City Engineer, Everett. Owners, City of Everett. Contractors, Washington Paving Co., L. C. Smith Bldg., Seattle. Contract price, $473,000. Time of completion is given as eighteen months. The work involves 23,000 feet of 28-inch steel pipe, 100,000 feet of 28-inch wood stave pipe, 9,500 feet of 22-inch wood stave pipe, 600 feet of 30-inch class L flexible joint cast iron pipe, 60,000 cubic yards earth excavation, 3,200 cubic yards rock excavation, 36,000 lineal feet of backfill, 1,300 lineal feet of pipe line trestle, 1,760 lineal feet of tunnel in rock, 150 cubic yards of concrete, 360 feet of timbered tunnels under railroads, 7,600 pipe cradles, 480 short piling, 100 feet of concrete pipe conduit, 44 feet of steel flume, 95 air valve housings, 7 brick manholes, 109 2, 2½ and 3½-inch air valves, 94 8-inch gate valves, 1 30-inch sluice gate 5,000 tons of hauling, 20 miles of clearing and grubbing strip 16 feet wide, 1 timber and rock fill diversion dam, 1 keeper's house, 1 concrete receiving basin, 2 navigable stream crossings, and 4 small stream crossings.

SAN FRANCISCO—Street improvements. Cost as follows. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The improvement of Kirkham street, between the east line of 45th avenue and the east line of 46th avenue, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8, 12 and 15-inch with 18 Y branches and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps, awarded to Felix McHugh & Son, 372 7th avenue, for $629.

The improvement of Pope street, between the south line of Mission and Morse street, including the intersection of Pope street and Cross street, by grading, construction of concrete curbs, three brick catchbasins, with cast iron frames, gratings and traps; and 10-inch, vitrified, salt-glazed, ironstone pipe culverts, and 8-inch, vitrified, salt-glazed, ironstone pipe sewer; artificial stone sidewalks; a 14-foot central strip of vitrified brick pavement, and by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway thereof, awarded to Karl Ehrhart, 660 Market street, for $8,986.68.

For the improvement of the crossing of Judah street and 38th avenue by grading to official line and grade, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8 and 12-inch, with one brick manhole with cast iron frame and cover, and galvanized wrought iron steps, three brick catchbasins with cast iron frames, gratings

and traps and 10-inch vitrified, salt-glazed, ironstone pipe culverts; concrete curbs, artificial stone sidewalks and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof, awarded to A. E. Buckman, 352 Geary street, for $2,163.70.

For the improvement of the crossing of Judah street and 37th avenue, by grading, construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8 and 12-inch, with one brick manhole with cast iron frame and cover and galvanized wrought iron steps; three brick catch-basins, with cast iron frames, gratings and traps, and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; concrete curbs; artificial stone sidewalks and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof, awarded to A. E. Buckman, 352 Geary street, for $1,602.55.

For the improvement of the crossing of Hugo and 2nd avenue by the construction of an artificial stone sidewalk on the southeast corner thereof, awarded to W. H. Hinckman for $24.75.

The improvement of the crossing of 29th avenue and Cabrillo street by grading, construction of 2 brick catch-basins, with cast iron frames, gratings and traps and 10-inch vitrified, salt-glazed, ironstone pipe culverts; concrete curbs and artificial stone sidewalks, asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface and the improvement of 29th avenue between Balboa and Cabrillo street by the construction of granite curbs, asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to A. E. Buckman, 352 Geary street, for $2,705.05.

The construction of a sewer and appurtenances in Oakdale avenue between San Bruno avenue and Selby street, awarded to Karl Ehrhart, 660 Market street, for $19,516.50.

The improvement of Mateo street, between Chenery and Arlington, by grading, construction of granite curbs, basalt block gutters and a basalt block pavement on sand with a gravel filler on the roadway thereof, awarded to C. O'Toole for $2,212.

RICHMOND, CONTRA COSTA CO., CAL.—Street improvement, $46,568.75. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractor, S. C. Rogers, 401 Chancelor avenue, Richmond. Contract price, $46,568.75.

HANFORD, KINGS CO., CAL.—Road machine, $900. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractors, Graves-Spear Road Machinery Co., Monadnock Bldg., S. F. Contract price, $900.

SACRAMENTO, CAL. — Street improvement. Cost not stated. Engineer City Engineer, Sacramento. Owners, City of Sacramento. The City Commissioners have awarded the following contracts for street improvement: To Clark & Henery, Ochsner Bldg., Sacramento, the improvement of 33rd street from the north line of Y to the north line of Cypress avenue, etc., by removing all surplus material, construct concrete curb, concrete gutters, placing cast iron gutter drains, with 6-inch, vitrified, ironstone sewer pipe elbows attached, concrete manholes complete with cast iron curbs and covers; 6 and 8-inch vitrified, ironstone sewer pipe drains; reconstruct one concrete manhole; grade the space between the property line and curb, and construct concrete sidewalk 6 feet in width and 3½ inches thick; grade the roadway and construct thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inch thick. To McGillivray Construction Co., 1007 7th street, Sacramento, for the improvement of U street south of the center line thereof, in front of the east half of lot 3, in the block bounded by U, V, 30th and 31st streets, by removing all surplus material, grading the roadway and constructing thereon an asphaltic macadam pavement 4 inches thick.

STOCKTON, SAN JOAQUIN CO., CAL.—Street improvements. Cost as follows. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractors, Paul & Caldwell, Stockton. Improvement of Miner avenue. Contract price, $10,959.60. Fred Leffler, 110 Jessie street, S. F., 12-inch sewer. Contract price, $2,476.60.

LOS ANGELES, CAL.—Street improvement, $28,100. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Contractor, Fred Hoffman, 11 East 12th street, Long Beach. Contract price, $28,100.

REDONDO, LOS ANGELES CO., CAL.—Street improvement, $22,809.82. Engineer, City Engineer, edondo. Owners, City of Redondo. Contractors, California-Arizona Construction Co., 1700 East Washington street, L. A. Contract price, $22,809.82.

STORES AND OFFICES

SAN FRANCISCO—Department store alterations and additions. Class A construction, $200,000. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate, leased to the Emporium. Contractors, Dinwiddie Construction Co., 606 Crocker Bldg., S. F. Subfigures will be taken within the next few days for several departments of this work.

SAN FRANCISCO—Loft additions, 3 story, brick. Cost not stated. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, Dr. George B. Somers. Location, 867 and 871 Mission street. Work will consist of adding two stories and installing elevator service and steam heat. Exterior faced with pressed brick. Plans being prepared.

OAKLAND, CAL.—Stores, 1 story and base, brick. Cost not stated. Architect, none. Owner, W. E. Whalin, 565 16th street, Oakland. Location, Broadway and 24th street. Will contain a number of small stores. Interior finish pine and hardwood. Cement floor. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and work to be done by Day Labor.

SAN RAFAEL, MARIN CO., CAL.—Offices, 1 story and base, reinforced concrete, $10,000. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Pacific Gas and Electric Co. Bids for this work have been taken and a contract will be awarded shortly. Interior will be finished in pine and hardwood. Exterior covered with cement plaster.

FRESNO, FRESNO CO., CAL.—Stores, 1 story and base, brick, $6,000. Architect, E. Mathewson, Forsythe Bldg., Fresno. Owner, F. Knoblock. Location, Tulare between O and P streets. Will contain five stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

TULARE, TULARE CO., CAL. — Store, 1 story and base, brick. Cost not stated. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Linde Hardware Co. Location K street. Interior finish pine. Patent store fronts and marble bases. Exterior covered with pressed brick. Plans being prepared.

LOS ANGELES, CAL.—Lofts, 5 story and base, reinforced concrete. Cost not stated. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owner, Valentine Kratz. Location, Los Angeles street between 7th and 8th streets, covering an area of 55 by 137 feet. Interior finish pine with some hardwood. Steam heat, oil burning plant, elevator service and hot water supply. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

Contracts Awarded.

MARTINEZ, CONTRA COSTA CO., CAL.—Stores, 1 story and base, brick, hollow tile or reinforced concrete $37,000. Architect, A. A. Cantin, Foxcroft Bldg., S. F. Owners, Lasell Bros. Contractors, Bulger & Son, Martinez. Contract price, $37,000. Note: Contractors are now taking subfigures.

THEATRES

SAN FRANCISCO—Theatre and offices, 4 story and base. Class A construction. Cost not stated. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Market Street Realty Co., 1051 Mills Bldg., S. F. Location, southeast Market and Fourth streets. A contract for furnishing the structural steel for the proposed new theatre has been awarded to the Gilden Gate Iron Works 1541 Howard street. Other parts of the work will not go out for figures for at least two months. Further mention will be made of the work.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1049 — Proposals for Cast Iron Lamp Posts, Base Sockets, Porcelain Receptacles, Transformers, Panel Boards, Lighting Fixtures, Electrical Attachments, Conduit and Fittings, Lock Nuts, Pipe Straps, Stove Bolts, Screws, Solder, Electric Cable, Wire, Asbestos Lumber, Insulating Tape, Soldering Paste, Pipe Bending Machines, Cable Reel Wheels, White Lead, Japan Drier, Turpentine, Turpetine Substitute, Creosote Oil, Alcohol, Shellac, Varnish, Lamp Black, Paints and Putty.—Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 28, 1916**, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1049) may be obtained from this office or the office of the Assistant Purchasing Agent, Fort Mason, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, Major, Corps of Engineers, U. S. Army, General Purchasing Officer.

PROPOSALS FOR BUILDING.

BUILDING — Sealed proposals endorsed "Proposals for five buildings and two masts," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **11 o'clock a. m. June 24, 1916**, and then and there publicly opened for five wooden frame buildings (four covered with wood shingles and one covered with corrugated steel) and two wooden masts 225 feet high, at the naval radio station, Marshfield, Ore. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard, Mare Island, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR WOOD MAST.

WOOD MAST—Sealed proposals indorsed "Proposals for Radio Mast" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. June 24, 1916**, and then and there publicly opened, for one wooden radio mast at the naval radio station, North Head, Wash. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard, Bremerton, Wash. F. R. HARRIS, chief of bureau.

PROPOSALS FOR DRAINAGE SYSTEM.

DRAINAGE SYSTEM — Custodian's Office, U. S. Post Office, Lander, Wyo.—Sealed proposals will be received at this office until **3 p. m. June 23, 1916**, and then opened for change in drainage system at this building in accordance with drawings Nos. 58A and M-250E and the specification, copies of which may be had at this office.

PROPOSALS FOR TRACK SCALES.

TRACK SCALES—Sealed proposals, indorsed "Proposals for a railway track scale," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **11 o'clock a. m. July 1, 1916**, and then and there publicly opened for furnishing and installing a railway track scale of 100,000 pounds weighing capacity, at the naval station, Pearl Harbor, Hawaii. Plan and specification can be obtained on application to the bureau or to the commandant of the naval station named. F. R. HARRS, Chief of Bureau.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 2, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., July 14, 1916**, for the construction complete of the United States post office at Vancouver, Wash. Drawings and specifications may be obtained from the custodian of site at Vancouver, Wash., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on June 26, 1916**, at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

Contra Costa County, from the southerly county boundary to Richmond (IV-C C-14-A), about 2.5 miles in length, to be paved with Portland cement concrete base and asphalt wearing surface.

San Mateo County, from Beresford to Redwood City (IV S. M.-2-B), about 4.2 miles in length, to be paved with Portland cement concrete.

Ventura County, from Springville to Santa Clara River (VII-Ven-2-C), about 5.6 miles in length, to be paved with Portland cement concrete.

Humboldt County, from Loleta to Beatrice (I-Hum-1-G), about 4.3 miles in length, to be paved with Portland cement concrete.

Shasta County, between Baird and Antler (II-Sha-3-C), a reinforced concrete bridge about 120 feet long across Salt Creek, and a reinforced concrete bridge about 541 feet long across the Sacramento River.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Date: May 25, 1916.

NOTICE TO CONTRACTORS.

SEALED BIDS will be received at the office of Albers Bros. Milling Company, 322 Pine street, San Francisco, **on or before 10 A. M. Tuesday, June 20th, 1916, for the first unit of Albers Bros. Milling Company's Dock Building and Warehouse, located at the foot of Seventh street, Key Route Basin, Oakland, California, for all of this work to be performed** in accordance with plans and specifications.

Plans and specifications may be obtained at the office of the engineer in charge of the work, R. M. Henningsen, 310 Security Bank Building, Oakland, California.

The right is reserved by Albers Bros. Milling Company to reject any and all bids.

R. M. HENNINGSEN,
Engineer in Charge of Construction.(*)

NOTICE INVITING BIDS FOR COMPLETE PUMPING UNIT FOR THE BURLINGAME MUNICIPAL WATER WORKS.

NOTICE IS HEREBY GIVEN by the undersigned that the Board of Trustees of the City of Burlingame will receive, through said undersigned, **up to 5 o'clock P. M., June 19th, 1916**, at his office, City Hall, City of Burlingame, sealed proposals for bids for 1 reciprocating pumping unit of continuous flow type, complete with driving motor and control panel, as per plans and specifications on file in the office of the undersigned, City Hall, City of Burlingame, Cal., or the office of Carroll Shipman, Holbrook Bldg., San Francisco, California.

The Board reserves the right to reject any and all bids. Only certified checks will be received with said bids in the amount as specified in said specifications, and in the event of a failure to sign contract with City within five days after the award, said check shall be deemed as liquidated damages. Forms for bidding secured from undersigned or said Carroll Shipman.

J. R. MURPHY,
(SEAL) City Clerk.

INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 5, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., June 28, 1916**, for furnishing and installing lighting fixtures in the United States post office, custom house, and court house at Hilo, Hawaii, in accordance with drawings and specifications, copies of which may be had at this office. Proposals are desired only from those qualified to produce work of the highest grade, both artistically and mechanically, and the right is reserved to refuse to send the drawings and specifications to or to receive proposals from anyone who, in the opinion of the Supervising Architect, is not so qualified. JAMES A. WETMORE, Acting Supervising. (*)

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 5, 1916—SEALED PROPOSALS will be received at this office **until 3 oclock P. M., June 21, 1916**, and then opened, for the inspection of structural steel and iron work for buildings erected under the control of the United States Treasury Department, from the date of the award of this contract to the end of the fiscal year June 30, 1917, in accordance with specifications, copies of which may be obtained by applying to this office. JAMES A. WETMORE, Acting Supervising Architects. (*)

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 7, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., August 7, 1916**, for the construction (except mechanical equipment) of the new United States Post Office at Portland, Ore. Drawings and specifications may be obtained, after June 19, 1916, from the Custodian of site at Portland, Oregon, or at the office of the architect, Lewis P. Hobart, 1122 Crocker Bldg., San Francisco, California, or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect (*)

NOTICE INVITING SEALED BIDS FOR THE BORING AND CONSTRUCTION OF A WELL FOR THE BURLINGAME MUNICIPAL WATER WORKS.

Pursuant to the order of the Board of Trustees of the City of Burlingame, the undersigned will receive at his office, City Hall, City of Burlingame, on behalf of the Board of Trustees of the City of Burlingame, sealed proposals or bids **up to 5 o'clock P. M., Monday June 19th, 1916**, for the boring and constructing of a well for the Burlingame Municipal Water Works.

All proposals or bids shall be in accordance with and based on the specifications and plans on file in the office of the undersigned and the terms of bidding and forms for bidding will be supplied by said undersigned at his office at the City Hall, Burlingame, Cal.

The Board reserves the right to reject any and all bids. Only certified checks will be received with said bids in the amount as specified in said specifications, and in the event of failure to sign contract with City within 5 days after the award, said check shall be deemed as liquidated damages.

J. R. MURPHY,
(SEAL) City Clerk.

Dated June 9th, 1916. (*)

MAKING OF BOXES FOR SHIPMENT.

Commercial Attache Verne L. Havens at Santiago, Chile, has called attention to the complaint of some of the importers there regarding the methods followed by American manufacturers of covering all sides of the box in which their products are shipped with various information, which makes it difficult to find the proper mark or identify the property, since the special marks are small after covering the box with advertising matter such as "This is for export," "Shipped by ——— via New York," etc.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO.

RESIDENCES—3, 2 story and base frame, $3,000 each. San Francisco. Architect, none. Owners, Leigh & Schultz, 419 21st avenue, S. F. Location, east 34th avenue north of Balboa. Each dwelling will contain seven rooms, bath and basement garage. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $8,000. San Francisco. Architect, August G. Headman, Call Bldg, S. F. Owner, Timothy Reardon. Location, Upper Terrace and Clifford street. Will contain ten rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

HOSPITAL WARD—2 story and base reinforced concrete. Cost not stated. San Francisco. Architect, Constructing Quartermaster"s Office, Fort Mason. Owners, United Seates Government. A large number of bids were received for the construction of Ward J at the Letterman General Hospital on June 8th All figures have been forwarded to Washington, D. C. A complete list of the bids received will be found under the heading of San Francisco in this issue.

APARTMENT HOUSE—4 story and base. Class C construction, $85,000. San Francisco. Architects, Rousseau & Rousseau, 110 Sutter street, S. F. Owner's name withheld. Location, southeast corner of O'Farrell and Hyde, covering an area of 70 by 77½ feet. Will contain a total of 70 rooms arranged in suites of two and three rooms. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat, oil burning plant, automatic elevator, vacuum cleaning and hot water system. Bath rooms tile floors and wainscot. Marble and tile wainscot in entrance. Wall beds. Exterior faced with pressed brick trimmed with terra cotta Plans being prepared

FLATS—2 story and base, frame, $12,500. San Francisco. Architects. Heiman & Schwartz, Nevada Bank Bldg., S. F. Owner, M. E. Spiro, 309 Market street, S. F. Location, northwest Washington and Buchanan Sts., covering an area of 76 by 28 feet. Will contain two large residential flats. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors will be used throughout. Bath rooms will be finished in tile. Open fire places and tile or brick mantels are specified. Central heating system. Exterior covered with cement plaster. Plans complete and segregated figures being taken.

FLAT ALTERATION—2 story and base, frame, $3,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Location, west Park north of Geary. Work will consist of new interior trim, hardwood floors, open fire places, tile mantels, new plumbing, plastering and electric work. Plans are complete and figures being taken.

FLATS—2 story and base, frame, $7,600. San Francisco. Architect, C. Fantoni, 916 Kearny street, S. F. Owner, G. B. Schiaffino. Location, south Green east of Pierce. Will contain two modern flats of five and six rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

SCHOOL—1½ story and base, $35,000. San Francisco. Architect, City Department of Architecture, City Hall. Owners, City and County of San Francisco. Location, Folsom between Tompkins and Banks streets. Will contain six class rooms and an assembly hall. Interior finish pine with maple floors. Central heating system vacuum cleaning and program clocks Exterior covered with cement plaster. Plans complete and figures being taken. Bids to be opened on June 14th.

FACTORY COMPLETION—2 story reinforced concrete. Cost not stated. San Francisco. Architect, August G. Headman, New Call Bldg. Owners, J Allec Cleaning and Dying Works. Location Folsom street. Bids are being taken for the electric work on this building. Following the award of this contract, plans for the heating and ventilating, sheet metal work, brick work and special boiler installation will be put out for figures.

WAREHOUSE—2 story, frame, $2,000 San Francisco. Engineer, W. W. Breite, Clunie Bldg., S. F. Owner, L Gutter 632 Anza street, S. F. Location north Folsom west of 8th, covering an area of 25 by 90 feet. No interior trim. Exterior covered with shiplap. Plans complete and work to be done by Day Labor.

HOSPITAL WARD COMPLETION—Class A construction, $10,000. San Francisco. Architect, August G. Headman, New Call Bldg., S. F. Owners City and County of San Francisco. The architect has been instructed to prepare plans for the completion of the upper floor of the Pathological ward at the San Francisco Hospital. The work will include mill work, interior trim, marble and tile work, sheet metal work and the extension of the plumbing, heating and electric work. Further mention will be made when figures are called.

SPECIAL TRACK WORK—Cost not stated. San Francisco. Engineer, City Engineer, City Hall. Owners, City and County of San Francisco. Bids will be opened by the Board of Public Works on June 28th for special track work on the Municipal Lines.

DEPARTMENT STORE ALTERATIONS AND ADDITIONS—Class A construction, $200,000. San Francisco. Architect, Morris M. Bruce, Flood Bldg., S. F. Owners, Parrott Estate, leased to the Emporium. Contractors, Dinwiddie Construction Co., 606 Crocker Bldg., S. F. Subfigures will be taken within the next few days for several departments of this work.

LOFT ADDITIONS—2 story, brick. Cost not stated. San Francisco. Architect, C. A. Tantau, Clunie Bldg., S. F. Owner, Dr. George B. Somers. Location 867 and 871 Mission street. Work will consist of adding two stories and installing elevator service and steam heat. Exterior faced with pressed brick. Plans being prepared.

THEATRE AND OFFICES—4 story and base. Class A construction. Cost not stated. San Francisco. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, Market street Realty Co., 1051 Mills Bldg. S. F. Location, southeast Market and Fourth streets. A contract for furnishing the structural steel for the proposed new theatre has been awarded to the Golden Gate Iron Works 1541 Howard street. Other parts of the work will not go out for figures for at least two months. Further mention will be made of the work.

Contracts Awarded

STREET IMPROVEMENTS—Cost as follows. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The improvement of Kirkham street, between the east line of 45th avenue and the east line of 46th avenue, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8, 12 and 15-inch, with 18 Y branches and 3 brick manholes with cast iron frames and covers and galvanized wrought iron steps, awarded to Felix McHugh & Son, 372 7th avenue, for $629. The improvement of Pope street, between the south line of Mission and Morse streets, including the intersection of Pope street and Cross street, by grading, construction of concrete curbs, 3 brick catchbasins with cast iron frames, gratings and traps and 10-inch vitrified, salt-glazed, ironstone pipe culverts, and 8-inch vitrified, salt-glazed, ironstone pipe sewer; artificial stone sidewalks, a 11-foot central strip of vitrified brick pavement, and by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the remainder of the roadway thereof, awarded to Karl Ehrhart, 660 Market street, for $8,986.68. For the improvement of the crossing of Judah street and 38th avenue, by grading to official line and grade, by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8 and 12-inch with one brick manhole with cast iron frame and

cover and galvanized wrought iron steps, 3 brick catchbasins, with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; concrete curbs, artificial stone sidewalks, and by the construction of an asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof, awarded to A E. Buckman, 352 Geary street, for $2,-163.70. For the improvement of the crossing of Judah street and 37th avenue by grading, construction of the following, vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8 and 12-inch with one brick manhole with cast iron frame and cover and galvanized, wrought iron steps, three brick catchbasins, with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; concrete curbs, artificial stone sidewalks, and by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof, awarded to A. E. Buckman, 352 Geary street, for $1,602.55. For the improvement of the crossing of Hugo and 2nd avenue by the construction of an artificial stone sidewalk on the southeast corner thereof, awarded to W. H. Hinckman for $24.75. The improvement of the crossing of 29th avenue and Cabrillo street, by grading, construction of 2 brick catchbasins, with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts; concrete curbs and artificial stone sidewalks, asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface; and the improvement of 29th avenue between Balboa and Cabrillo streets by the construction of granite curbs, asphalt pavement, consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface, awarded to A. E. Buckman, 352 Geary street, for $2,705.05. The construction of a sewer and appurtenances in Oakdale avenue, between San Bruno avenue and Selby street, awarded to Karl Ehrhart, 660 Market street, for $19,516.50. The improvement of Mateo street, between Chenery and Arlington, by grading, construction of granite curbs, basalt block gutters and basalt block pavement on sand with a gravel filler on the roadway thereof, awarded to C. O'Toole for $2,212.

OFFICERS' QUARTERS—12, 2 story and base, reinforced concrete. Cost as follows. San Francisco. Architect, Constructing Quartermaster's Office, Fort Mason. Owners, United States Government. Official awards of contracts for the construction of four single Field Officers' quarters and for eight double sets of officers' quarters to be erected in the Presidio have been made by the War Department at Washington, D. C. Mahoney Bros. were awarded the general construction, reinforced concrete being selected, as follows: Four sets of single Field Officers' quarters, $19,-879.26; eight double sets, $64,021.96 Total, $83,900.96. Wm. F. Wilson Co. awarded the plumbing, four sets of single quarters, $2,879; eight double sets, $7,392. Total, $10,271. Burnham Plumbing Co. was awarded the heating four single sets, $2,220; eight sets, $6,-600. Total, $8,820. E. A. Mantell was awarded the electric work, four single sets, $1,358; and eight double stes, $4,-793. Total, $6,151.

SCHOOL—2 story and base, frame and steel. Cost not stated. San Francisco. Architect, William C. Hays First National Bank Bldg., S. F. Owners, Wilmerding School of Industrial Arts. Contractor, Robert Trost, 26th and Howard streets, S. F. Contract price not stated.

RESIDENCE — 2 story and base, frame, $3,000. San Francisco. Architect, none Owners, Nelson Bros., 1100 10th avenue, S. F. Location, east 21st avenue south of Anza. Will contain seven rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

Receive Figures For U. S. Hospital Ward.

Many Bids Presented For New Reinforced Concrete Building at Letterman General Hospital.

Bids were opened in the office of Lieutenant Colonel George Mc. Williamson, Constructing Quartermaster at Fort Mason, for the construction of a two-story and basement reinforced concrete hospital ward to replace the frame building known as Ward J at the Letterman General Hospital in the Presidio. The building will cover an area of 180 by 30 feet.

Bids were submitted with the following sixteen alternates: No. 1, construction only; No. 2, addition for metal lath; No. 3, omit plaster in basement; No. 4, omit concrete floor in basement; No. 5, omit dumb waiter; No. 6, substituting battleship linoleum for maple floor; No. 7, plumbing complete; No. 8, heating and ventilating; No. 9, substituting air cell covering on heating pipes; No. 10, electric work; No. 11, addition for wiring basement; No. 12, electric fixtures; No. 13, vacuum cleaner; No. 14, unit price per cubic yard for excavating; No. 15, unit price per cubic yard for plain concrete, and No. 16, unit price per cubic yard for reinforced concrete.

Following is a complete list of the bids received:

Constructing Ward J

Howard S. Williams, 150 days. (1) $16,697; (2) $700; (3) $275; (4) $500; (5) $70; (6) $300, add.; (14) $.75; (15) $8; (16) $14.

Masow & Morrison, 120 days. (1) $19,-187; (2) $792; (3) $392; (4) $440; (5) $71; (6) $80; (14) $.75; (15) $7; (16) $12.

R. S. K. MacMillen, 180 days. (1) $18,-949; (2) $352; (3) 550; (4) $675; (5) $25; (6) $170; (7) $2,500; (8) $700; (9) $50; (10) $500; (11) $110; (12) $200; (13) $550; (14) $.60; (15) $10; (16) $12.

Frank M. Garden Co., 180 days. (1) $16,840; (2) $301; (3) $203; (4) $400; (5) $560; (14) $.75; (15) $9; (16) $14.

Lester H. Stock, 200 days. (1) $16,-905; (14) $1; (15) $10; (16) $15.

Grace & Bernieri, 140 days. (1) $17,-700; (2) $1,200; (3) $277; (4) $307; (5) $60; (6) $68; (14) $.70; (15) $7; (16) $16.

Robert Trost, 130 days. (1) $16,875; (2) $565, (3) $373; (4) $510, (5) $65; (6) $300; (14) $.70; (15) $7; (16) $12.

Newsom & Henning, 210 days. (1) $17,466; (2) $500; (3) $495; (4) $523; (5) $75; (6) $200; (14) $1; (15) $12; (16) $14.

Hansbrough-Johnston Co., 150 days. (1) $18,585; (2) $800; (3) $600; (4) $500; (5) $30; (6) $300; (14) $.50; (15) $8.10; (16) $9.45.

Anderson & Ringrose, 100 days. (1) $17,930; (2) $670; (3) $345; (4) $570; (5) $150; (6) $260; (14) $1; (15) $10; (16) $18.

Neil A. McLean, 108 days. (1) $15,200; (2) $560; (3) $150; (4) $480; (5) $40; (6) $200; (14)$.75; (15) $7; (16) $8.

F. L. Hansen, 100 days. (1) $16,660; (2) $530; (3) $372; (4) $397; (5) $95; (6) $200; (14) $.50; (15) $11.

Hother Glahn, 150 days. (1) $20,850; (2) $470; (3) $435; (4) $873.65; (5) $95; (6) $128; (14) $1; (15) $7; (16) $12.

Plumbing, Ward J.

F. W. Wilson Co.	$2,871
Frank J. Klimm	3,040
The Turner Co.	2,520
Burnham Plumbing Co.	2,300
Scott Co.	2,695

Heating, Ward J.

		Deduct
The Turner Co.	$1,290	$60
Burnham Plumbing Co.	1,378	90
Scott Co.	1,160	55

Electric Work, Ward J.

		Add
The Turner Co.	$1,170	....
Newberry Electric Co.	785	$280
E. A. Mantell	1,252	....
McFell Electric Co.	1,020	310
Globe Electric Co.	1,194	310

Lighting Fixtures, Ward J.

E. A. Mantell	$298
McFell Electric Co.	184
Globe Electric Co.	170

City Bids Opened.

Bids were opened by the San Francisco Board of Public Works for the special furniture to be installed in the Supervisors' Chambers in the new City Hall. Following is a complete list of the bids:

Special Furniture.

W. & J Sloane, $1202	$62.00	$37.50
A. J. Forbes & Son, $5500.	84.00	48.50
L. & E Emanuel, $3803.50	54.55	35.95
Wm. Bateman, $4142	65.00	32.00
Mullen Mfg. Co., $4870	70.25	48.50
Rucker Fuller Desk Co., $1060.80	61.20	34.60
Heywood Bros. Wakefield Co., $4644	76.00	37.00

War Department Makes Awards On Quarters.

Mahoney Bros. Awarded Contract For Four Sets of Single Quarters and Eight Sets of Double Quarters.

Official awards of contracts for the construction of four single Field Officers' quarters and for eight double sets of officers' quarters to be erected in the Presidio have been made by the War Department at Washington, D. C.

Mahoney Bros. were awarded the general construction, reinforced concrete being selected as follows: four

sets of single Field Officers' quarters, $19,879.36, eight double sets, $64,021.96. Total, $83,900.96.

William F. Wilson Co. awarded the plumbing. Four sets of single quarters, $2,879; eight double sets, $7,392. Total, $10,271.

Burnham Plumbing Co. was awarded the heating. Four single sets, $2,220; eight sets, $6,600. Total, $8,820.

E. A. Mantell was awarded the electric work. Four single sets, $1,358, and eight double sets, $4,793. Total, $6,151.

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on June 22nd at 11 a. m. for street work authorized under the following resolutions: That Custer street, from the southeast line of 35th avenue to the northwest line of Harrington avenue also a portion of Harrington avenue, be graded, curbed with redwood, paved with oil macadam, sidewalked with cement sidewalks, and culverted with corrugated iron and concrete culvert, two brick manholes with cast iron tops be constructed.

HIGHWAY CONSTRUCTION — Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received up to June 19th at 10 a. m. for the improvement of East 14th street, or the main county road from San Leandro to Hayward in Eden Road District Eden Township, Alameda County.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on June 22nd at 11 a. m. for street improvements authorized under the following resolutions: That Fleming avenue, from the southeast line of High street to a line at right angles to the northeast line of Fleming avenue and distant thereon 175 feet northwest from the northeast line of the Chittenden Tract, be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with cement sidewalks 6 feet wide, also two concrete culverts, each having maximum internal dimensions of 6 feet 4 inches in height by 6 feet in width, vitrified pipe conduits, 3 brick manholes with cast iron tops and a storm water inlet with cast iron top That cement sidewalks 6 feet wide be constructed on the western sidewalk of Vallecito Place, from the southern line of East 31st street to the northeast curb line of East 27th street where not already laid in cement or bitumen. That a portion of Fallon street be graded, curbed with concrete, guttered with brick gutters, 11 inches wide, and paved with asphalt; and a vitrified pipe conduit, having an internal diameter of 16 inches and a brick storm water inlet with cast iron top.

RESIDENCE — 1 story and base, frame, $2,000. Berkeley, Alameda Co. Cal. Architect, none Owner, Edward Larmer, 631 Poirier street, Oakland. Location, south Derby east of Ellsworth. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base, frame, $5,500 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owners, Oakland Investment Co., Location, Rockridge Park. Each house will contain eight rooms, two baths, sleeping porch and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Furnace heat and hot water supply. Open fire places and tile or brick mantels. Exteriors covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,200. Oakland, Cal. Architect none. Owner, W. A. Anderson, 1771 Auseon street, Oakland. Location, west Ritchie south of Hillside. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—3, 2 story and base frame, $3,500. Oakland, Cal. Architect none. Owner, C. M. MacGregor, 470 13th street, Oakland. Location, northeast Everett avenue and Wellington. Each dwelling will contain eight rooms bath and sleeping porch. Interiors finished in pine, gum and white enamel. Hardwood floors throughout. Bath rooms tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base frame, $4,750 each. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg Oakland. Owner, Walter Creighton. Location, Country Club Highlands. Each house will contain eight rooms two baths and sleeping porch. Interior finish pine, hardwood, gum and white enamel. Hardwood floors throughout. Furnace heat and open fire places Mantels tile and brick. Bath rooms finished with tile and equipped with showers. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect none. Owners, Jesperson & Dippo, 986 28th street, Oakland. Location, south 29th west of Market. Will contain five rooms and bath. Interior finish pine and redwood with some white enamel Hardwood floors. Open fire place and tile mantel. Automatic water heater Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

RESIDENCES—3, 1 story; 1, 1½ story and 1, 2 story, frame, $2,500 to $4,000. Oakland, Cal. Architect, M. I Diggs, Syndicate Bldg., Oakland. Owner, Alfred Cords. Location Country Club Highlands. These houses will contain from six to eight rooms, the larger two story dwelling having two baths All will have a sleeping porch. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base frame, $2,000 each. Oakland, Cal. Architect, none. Owners, Syndicate Investment Co., 1520 Broadway, Oakland Location, east 38th avenue north of Holly. Each will contain five rooms and bath. Interiors finished in pine and redwood. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect none. Owner, I. A. Kellogg, 3404 Champion street, Oakland. Location, north Redding west of High. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Open fire places and tile mantels. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base frame, $4,500 each. Alameda, Alameda Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, Waterside Terrace. Each house will contain seven rooms, two baths and sleeping porches. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Bath rooms finished in tile and equipped with showers. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, John Hood. Location, Santa Barbara north of Indian Rock avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room finished in tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and figures being taken.

RESIDENCE—1½ story and base, frame, $3,200. Berkeley, Alameda Co., Cal. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, Mrs. Mary Hood. Location, west Oxford north of Los Angeles. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, George Noble, 2220 Central avenue, Alameda. Location, 1314 Encinal avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base frame, $1,800. Oakland, Cal. Architect. none. Owner, G. H. Moore, 110 Jessie street, S. F. Location, north Beck west of 73rd street Will contain five

rooms and bath. Interior finish pine and redwood. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000, Oakland, Cal. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner, oy H. Fish. Location, Northbrae. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCES—3, 2 story and base, frame, $5,000 each. Oakland, Cal. Architect, M. J. Diggs, Syndicate Bldg., Oakland. Owners, O'Connor & Elrod. Location, Rockridge Park. Each house will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile. Automatic water heaters. Exterior covered with cement plaster. Plans being prepared and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,200. Oakland, Cal. Architect, none. Owner, J. R. Mulroony, 3500 Peralta avenue, Oakland. Location, south Delaware east of Peralta. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base frame, $1,500. Oakland, Cal. Architect none. Owner, W. S. Lloyd, 3720 Boulevard avenue, Oakland. Location, west 60th avenue south of Eastlawn. Will contain five rooms and bath. Interior finish pine and redwood with some hardwood floors. Open fire place and tile mantel. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 1 story and base, frame, $1,600 each. Oakland, Cal. Architect, none. Owner, G. Taylor, 90 Pearl street, Oakland. Location, south Stowe avenue west of Newton. Each house will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel Hardwood floors. Open fire places and tile mantels. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect none. Owner, S. A. Warner, 5394 Princeton avenue, Oakland. Location, west Fairfax north of Princeton. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect none. Owner, R. K. Larsen, 1221 30th avenue, Oakland. Location, west 27th avenue north of East 14th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE—1½ story and base, frame, $2,500. Oakland, Cal Architect, none. Owner, J. Lehman, 959 Apgar street, Oakland. Location, east Park north of El Centro. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base frame, $2,500. Oakland, Cal. Architect none. Owner, F. L. Baxter, 2411 Hopkins street, Oakland. Location, south Hopkins east of Sheffield. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base. frame, $2,000. Oakland, Cal. Architect, none. Owner, S. A. Isakson, 1464 55th avenue, Oakland. Location, east Patterson north of Hopkins. Will contain five rooms, bath and sleeping porch Interior finish pine, redwood and white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. Oakland, Cal. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owners, Banning & Stewart Location, south Rockridge Boulevard east of Broadway. Will contain eight rooms, two baths and sleeping porch Interior finish pine, hardwood and white enamel Hardwood floors. Open fire places and tile mantels. Furnace heat. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base. frame, $3,000. Berkeley, Alameda Co., Cal. Architect, W. L. Broderick, 1201 Colusa avenue, Berkeley. Owner, S. B. Batsford. Location, north Marin avenue east The Alameda. Will contain six rooms, bath and sleeping porch Interior finish pine, redwood, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

HIGHWAY CONSTRUCTION — Cost not stated. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids will be received on June 26th at 10 a. m. for grading of a roadway and other necessary improvement work on the Wobber-Sunol road, or County Road No. 5820, leading from Sunol to Verona, in Pleasanton Road District, Pleasanton Township. Alameda Co.

STREET IMPROVEMENT—Cost not stated. Berkeley, Alameda Co., Cal. Engineer, City Engineer, Berkeley. Owners, City of Berkeley. Bids will be received on June 20th at 10 a. m. for street improvements authorized under the following resolution: That the roadway of Tamalpais street, from the west extension of the south line of Shasta street north to the west line of Tallac and Tallac from west line of Shasta street west and north to a line drawn from the point of intersection of the north line of Tamalpais street, etc., be graded, construct concrete curbs. cast curb inlets and catchbasins with gratings and roadways be paved with a concrete pavement 5 inches thick. That Walnut street, from the north line of Berryman street north to the north line of Highlands; and Eunice street, from the east line of Shattuck avenue east to Walnut street, be graded; constructed concrete curbs, cast iron concrete culverts with granite header blocks, concrete walls with concrete posts and wrought iron pipe railing and earth terracing, concrete gutters and the remainder of the roadway be paved with oiled macadam pavement.

APARTMENT HOUSES—2, 2 story and base, frame, $10,000. Oakland, Cal. Architect, none. Owner, V. Z. Rutherford, Thomson Bldg., Oakland. Location, west Perkins north of Van Buren. Each building will contain 24 rooms arranged in two, three and four room suites. Interiors finished in pine and hardwood with some white enamel. Hardwood floors. Open fire places. Mantels tile and brick. Tile floors and wainscot in bath rooms. Wall beds. Hot water supply. Exterior covered with cement plaster. Plans complete and subfigures being taken from non-union contractors.

APARTMENT HOUSE—3 story and base, frame, $55,000. Oakland, Cal. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owners, United Home Builders, 1529 Broadway. Location Oak and 15th streets. Will contain a total of 30 suites of three, four and five rooms apartments. Interiors finished in pine, hardwood and white enamel. Hardwood floors. Tile baths. Wall beds. Steam heat, oil burning system and hot water supply. Exterior covered with cement plaster. Revised plans complete and in the hands of the owners who are taking subfigures.

SCHOOL—2 story and base, brick and concrete. Cost not stated. Alameda, Alameda Co., Cal. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. Bids were opened by the Board of Education on June 6th for the construction of the Lincoln School. A complete list of the bids received will be found under the heading of Oakland and Alameda County in this issue.

STORES—1 story and base, brick. Cost not stated. Oakland, Cal. Architect, none. Owner, W. E. Whalin, 565 16th street, Oakland. Location, Broadway and 24th street. Will contain a number of small stores. Interior finish pine and hardwood. Cement floor Patent store fronts and marble bases Exterior faced with pressed brick lans complete and work to be done by Day Labor.

Contracts Awarded

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland: East 12th street from the southeast line of 13th avenue to the northwest line of 23rd avenue be graded, curbed with concrete, guttered with brick gutters 14 inches wide and paved

ith asphalt; also for the installation f catchbasins, concrete culverts, brick anholes, corrugated culverts, and 8-ch sewer, etc., awarded to the Clark Henery Construction Co., Ochsner ldg., Sacramento.

East 16th street, from the northwest ne of Fruitvale avenue to the south-ast boundary line of the city of Oak-and, be graded, curbed with concrete, uttered with concrete gutters 3 feet ide, paved with oil macadam, and idewalked with cement sidewalks 6 eet wide; also that two corrugated on and concrete culverts, each having wo branches, be constructed; also that ach of the four existing storm water nlets in East 16th street between ruitvale avenue and 29th avenue be eplaced with a new brick storm water nlet with cast iron top, awarded to he Oakland Paving Co., 5000 Broad-ay, Oakland.

Tenth street, from the east line of lice street to the west line of Oak treet, be graded, curbed with concrete, uttered with brick gutters 14 inches ide, and paved with asphalt; also a orrugated iron and concrete culvert aving two branches; a sewer, having aving an internal diameter of 8 nches; a brick manhole with cast iron op; a lamp hole with top of brick and ast iron; Y branches, having 5-inch penings. The aforesaid sewer, lamp ole (excepting the top thereof) and Y ranches shall be constructed of vit-ified sewer pipe, awarded to The Oak-and Paving Co.

Receive Bids For Alameda School Job.

ll Figures for Construction of Lincoln School Run High. May be Rejected Second Time.

Bids were opened Tuesday night by he Alameda Board of School Trustees or the construction of the two-story nd basement brick and concrete Lin-oln School Building, located at Central venue and Court street, designed by rchitects Cunningham & Politeo, 1st ational Bank Bldg., San Francisco.

Bids were called for as follows: Dept. , excavating, concrete work; Dept. 2, rick, granite work, cast iron and teel work; Dept. 3, carpentry, mill vork, glass, stairs, roof, hardware and heet metal work; Dept. 4, plumbing nd gas fitting; Dept. 5, electric vork; Dept. 6, lathing and plastering; Dept. 7, heating and ventilating; Dept. , painting; Dept. 9, vacuum cleaner.

All bids were taken under advisement ut it is reported that the lowest bids re in access of the amount available, 50,000, and will probably be rejected. Following is a complete list of bids re-eived:

Lincoln School.

Harvey A. Klyce (1 to 9) $53,785; (1) 5,186; (3) $18,324.

E. S. Mulford (1) $3,100; (2) $18,293; 1 and 2) $20,647; (1, 2 and 3) $39,152; 1 to 9) $52,785.

Anderson & Ringrose (1) $3,820; (2) 18,850 ;(3) $18,470.

Peter M. Schmidt (1, 3, 4 and 6) $27,-004; (3) $18,278.

W. D. Henderson (1,2 and 3) $43,553; 1, 2, 3, 6 and 8) $47,746.

T. W. McClenahan (1) $3,839; (2) 19,974.

Masow & Morrison (1, 3, 6 and 8) 46,890.

Lester H. Stock (1) $4,000; (2) $20,-000; (3) $19,476; (4) $3,150; (5) $1,350; (6) $3,752; (1 and 3) $23,100; (1, 3 and 6) $26,500; (1, 2, 3 and 6) $45,435; (1, 2, 3, 4, 5 and 6) $48,532.

Department One.

Powell Bros. Constr. Co.	$ 3,498

Department Two.

Mealey & Collins	$17,530
J. W. Eber	17,812
Chas. B. Hadley	18,740
White & Gloor	18,450
C. J. Allen	20,500

Department Three.

Delanoy & Randlett	$17,830
J. Wendering	18,350
J. C. Nielsen	18,360

Department Four.

J. E. O'Mara	$ 2,877
A. Felthammer	3,850
Carl T. Doell	3,044
J. B. Cruz	3,062
Frederick W. Snook Co.	2,990

Department Five.

Ne Page-McKinney Co.	$ 1,287
Rex Electric Co.	1,168
General Elec. Constr. Co.	1,412
Strom Elec. Co.	1,800

Department Six.

Greenback Plastering Co.	$ 2,225
George Dixon	2,475
MacGruer & Co.	3,243

Department Seven.

J. C. Hurley Co.	$ 4,126
W. Morgan & Co.	4,[illegible]0
Bay Engineering Co.	5,405
John Ringius & Co.	4,025
Ideal Heating & Eng. Co.	3,810

Department Eight.

Wm. J. Cahill Co.	$ 3,150
D. Zelinsky & Son	1,492
Tozer Co.	1,950

Department Nine.

J. C. Hurley Co.	$ 549
S. F. Compressed Air Co.	545
Carl T. Doell	698
Western Vacuum Supply Co.	547
Ideal Heating & Eng. Co.	3,810

Bids were also received at the same meeting of the Board of School Trustees for the construction of a one-story frame building at the Everett School. B. F. Cowart presented the lowest figure at $3,015. Following bids were received:

Everett School.

J. Wendering	$3,500
B. F. Cowart	3,015
Niles W. Place	3,375

SAN JOSE AND THE SANTA CLARA VALLEY

BRIDGE—Reinforced concrete. Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. Plans and specifications for a reinforced concrete bridge on Fort Hill avenue near Shell place in Supervisorial District No. 1, in the County of Santa Clara, were approved by the County Supervisors at their last meeting and the Clerk ordered to advertise for bids up to July 3rd, 11 a. m. Plans may be had from the Clerk of the Supervisors.

BRIDGE—Reinforced concrete. Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Engineer has been instructed by the Supervisors to prepare plans and specifications for a reinforced concrete bridge over the Llagas Creek on Church avenue in Supervisorial District No. 1. Bids will be called for on the approval of the plans.

HALL—2 story and base, brick and reinforced concrete, $60,000. Redwood City, San Mateo Co., Cal. Architect Will H. Toepke, 16 Kearny street, S. F. Owners, San Mateo County. Bids opened June 5th for the construction of this building show Newsom & Hennings, Sharon Bldg., S. F., low on the general construction at $44,819. No award of contract has been made. All bids for the special Jail equipment were rejected. The lowest figure for this work was $22,924.

STREET IMPROVEMENT—Cost not stated. Santa Cruz, Santa Cruz Co., Cal. Engineer, City Engineer, Santa Cruz. Owners, City of Santa Cruz. City Engineer Thompson is now preparing plans and specifications for the improvement of King street, and plans for the work will be presented to the City Council at its next meeting. Plans for the improvement of Branciforte street are also being prepared and will be ready for approval in two weeks.

STREET IMPROVEMENTS—Cost not stated. South San Francisco, San Mateo Co., Cal. Engineer, City Engineer, South San Francisco. Owners, South San Francisco. Sealed bids will be received by the City Clerk until Monday, June 19th, 1916, 8 p. m., for the improvement of 1st, 2nd and 3rd streets, from the western boundary line of the right-of-way of the United Railroads of San Francisco to the line of the Mission road, or State highway; A, B, C, and D streets, from the western boundary of the right-of-way of the United Railroads of San Francisco to the respective south terminations thereof, by grading, constructing concrete curbs and concrete sidewalks, oiled macadam pavement, sewers with all appurtenances, manholes, lampholes, Y's and lateral sewers.

HIGHWAY CONSTRUCTION — Cost not stated. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. The County Supervisors at their last meeting approved plans and specifications for the repair and construction of more than three miles of the Saratoga-Los Gatos road, in Road District No. 5, and the Clerk was instructed to advertise for bids to be opened on July 3rd, 11 a. m. Plans and specifications for surfacing concrete portion of Section A of the Alviso road were approved by the Supervisors and bids ordered received up to July 3rd, 11 a. m.

RESIDENCE — 2 story and base, frame, $10,000. Hillsborough, San Mateo Co., Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, Dr. Cohen. Will contain thirteen rooms, several baths, sleeping porch and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Hot water circulating system. Showers in baths. Exterior covered with cement plaster. Clay tile roof. Plans being prepared.

SCHOOL—1 story and base. Class C construction, $22,000. Palo Alto, Santa Clara Co., Cal. Architect, John J. Donovan, Dalziel Bldg., Oakland. Owners, Palo Alto School District. Will contain four class rooms, library, teachers' room and office. Interior finish pine with some maple floors. Steam heat and oil burning equipment. Program clocks. Exterior covered with cement plaster. Plans complete and figures to be called for at once.

Contracts Awarded

SCHOOLS—2, 1 story and base, hollow tile, $24,456. Redwood City, San Mateo Co., Cal. Architect, N. W. Sexton Merchants' National Bank Bldg., S F. Owners, Redwood City. Contractor. W. D. Henderson, Monadnock Bldg., S F. Contract price, $24,456.

Receive Figures For County Jail Work.

Newsom & Henning Will Probably Build San Mateo County's New Jail at Redwood City.

REDWOOD CITY, San Mateo Co., Cal. —Bids were opened at the June 5th session of the Board of Supervisors for the construction of the new reinforced concrete jail building. Plans for the building were prepared by Architect Will H. Toepke, 46 Kearny street, San Francisco.

Newsom & Henning, Sharon Bldg., San Francisco, presented the lowest figure for the general construction, exclusive of the special jail equipment at $44,819. Their bid was taken under advisement for one week. All bids for the jail equipment were rejected. Following is a complete list of the bids as opened:

General Construction.

W. D. Henderson	$45,678
Howard S. Williams	44,935
Lange & Bergstrom	47,926
Barrett & Hilp	49,990
Newsom & Henning	44,819
E. L. Hansen	48,880
Harvey A. Klyce	49,525
James Furlong	48,400
Alfred Kohn	47,970
Elmer Carlson	46,810
Grace & Bernieri	52,231

Special Jail Equipment.

Pauly Jail Co.	$23,587.00
N. G. West Co.	22,924.25
Hermann Safe Co.	30,770.00

Bids Received For Santa Clara Co. Roads.

Santa Clara County Supervisors Award Contracts for Fourteen Miles of Highway Construction.

(By Special Wire)

SAN JOSE, Santa Clara Co., Cal.—Bids were opened by the Board of Supervisors at their Monday meeting for highway construction in five road districts. Contracts were awarded to the lowest bidders in each case. The work figured included some fourteen miles of highway construction.

Following is a complete list of the figures received together with the engineer's estimate:

	Stevens Creek Road, $10,000 Surveyor's Estimate	Alum Rock Ave., $80,600 Surveyor's Estimate	Saratoga-Mountain View, Sec. 1, $51,500 Surveyor's Estimate	Saratoga-Mountain View, Sec. 2, $19,800 Surveyor's Estimate
City Street Improvement Co.	*$37,008	$ 75,000	$ 48,500	$ 45,750
Raisch Improvement Co.	49,600	61,193	52,200	48,500
F. R. Ritchie	39,500	60,200	50,742	49,410
J. W. McDonald Jr.	39,244	64,460	49,980	48,000
Marin Rock Co.	42,455	60,200	*48,018	47,026
Johnson-Shea Co.	41,000	.....	52,000	48,000
John Doyle	43,332	67,300	54,256	51,767
John F. Adams	55,786	.....	57,905	.....
McGilivray Constr Co.	45,124	66,558	50,010	48,703
Ransome-Crummey Co.	39,440	69,000	54,915	55,672
Western Motor Draying Co.	37,670	.....	48,170	*43,606
A. Teichert & Son	43,745	.....	49,770	47,745
Grace & Bernieri	44,274	60,806	49,982	45,060
Paul & Caldwell	42,387	.....	.....	.....
Clark-Henery Constr. Co.	43,900	64,638	49,364	46,890
Planchard-Brown	44,475	69,736	49,163	48,857
Sonnicksen & Bryant	.....	*58,326	.....	.....

MARIN, CONTRA COSTA AND SONOMA COUNTIES

SEWER CONSTRUCTION — Cost as follows. Richmond, Contra Costa Co. al. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids providing for the installation of a modern sanitary sewer system in the Richmond High School were opened by the City Board of Education at their last meeting as follows: Matthew Morton, Berkeley, $3,617; Carl Overaa, Richmond, $3,525; A. A. Beckman, San Pablo, $3,-223. It is probable that the contract will be awarded to the lowest bidder.

STREET PAVING — Cost as follows. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. The Municipal Improvement Co., 803 Macdonald avenue, Richmond, claim that faulty proceedings are responsible for their giving up their contract to pave a portion of San Pablo avenue. The company bid $31,054.57. Other bidders on the work were Ransome-Crummey Co., Oakland, $33,911.48, and Johnson & Shea Central Bank Bldg., Oakland, $34,091.89. From present indications a new call for bids will be issued by the City Council.

STREET PAVING—Cost not stated. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The protest of the property owners in the northwest paving district against having the proposed street improvement work done under public proceedings was overruled by the City Council, after a report had been received from City Engineer T. D. Kilkenny, in which it was announced that the protestants represented but 40.8 per cent of the total acreage in the paving district, while the law requires that 51 per cent shall constitute a majority. The total number of square feet in the district is 1,854,561, while the area represented in the protests amounted to 756,009 square feet. Bids on this work will probably be called within the next few days.

BRIDGE—Steel and reinforced concrete. Cost not stated. Fairfield, Solano Co., Cal. Engineer, County Surveyor, Fairfield. Owners, Solano and Sacramento Counties. The Supervisors have instructed County Engineer Eager to confer with the Engineer of Sacramento County as to new and further surveys for the bridge to be built across the Sacramento River at Rio Vista. The plans for the bridge were approved by the War Department last year, but owing to lack of funds the county was not able to go ahead with the work.

BRIDGES—Reinforced concrete. Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. The Clerk of the County Supervisors has been instructed to advertise for bids for installing two bridges in Nicasio District, for building a road over Wilson Hill to Mt. Goudy's district, and for improving the road near McNear's Point. Plans may be had from the County Clerk.

EARTH FILL—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer P. A. Haviland, Court House, Oakland. Owners, City of Richmond. Bids will be received up to June 19th at 8 p. m. for the construction of a rock and earth fill on the north or land side of Richmond Municipal Wharf No. 1, and connecting with the municipal

STREET IMPROVEMENT—Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. At the last meeting of the County Supervisors the Clerk of the Board was instructed to prepare plans and specifications for macadamizing and widening the county road from Alta station to the town of Belvedere. Supervisor Burke has an order to have the County Surveyor procure levels, etc., for placing oil macadam on three miles of road in the town of Fairfax, from the San Anselmo line to the base of White's Hill, and from the station to the foot of Fairfax grade. Bids on this work will be called when the plans have been approved by the Board.

STREET PAVING, ETC.—Cost not stated. San Rafael, Marin Co., Cal. Engineer, City Engineer, San Rafael. Owners, City of San Rafael. Bids will

be opened on July 3rd at 8.30 p. m. for street paving authorized under the following resolution: That a portion of the San Rafael and San Quentin toll road which lies between the south line of Third street and the east line of Irwin street be graded and paved with a rock macadam pavement, construct concrete curbs and concrete gutters.

SCHOOL—1 story and base, frame $10,000. Moraga, Contra Costa Co., Cal. Architect, Norman R. Coulter, 16 Kearny street, S. F. Owners, Moraga School District. Will contain two class rooms Interior finish pine and redwood Stoves for heating. Exterior covered with cement plaster. Plans complete and figures being taken. Bids to be opened on June 17th.

LIBRARIES—2, 1 story, frame. Cost as follows, Martinez, Contra Costa Co., Cal. Architect, none. Owners, Contra Costa County. All bids received for the construction of the Concord and Antioch branch libraries have been rejected as being above the amount available for construction. The Concord branch will cost $2,700 and the Antioch branch $2,750. The work will probably be readvertised.

OFFICES—1 story and base, reinforced concrete, $10,000. San Rafael Marin Co., Cal. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owners, Pacific Gas and Electric Co. Bids for this work have been taken and a contract will be awarded shortly. Interior will be finished in pine and hardwood. Exterior covered with cement plaster.

STORES—1 story and base, brick hollow tile or reinforced concrete, $37,000. Martinez, Contra Costa Co., Cal Architect, A. A. Cantin, Foxcroft Bldg. S. F. Owners, Lasell Bros. Contractors, Bulger & Son, Martinez. Contract price, $37,000. Note: Contractors are now taking subfigures.

Contracts Awarded

STREET IMPROVEMENT — $16,568.75. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractor, S. C. Rogers, 401 Chancelor avenue, Richmond. Contract price, $16,568.75

SEWER CONSTRUCTION—Cost as follows, Petaluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. Contractor J. B. Silvia, Petaluma. Contract price. 6-inch sewer, $1.25 per lineal foot.

STREET IMPROVEMENT—$2,372.65. Napa, Napa Co., Cal. Engineer, City Engineer, Napa. Owners, City of Napa. Contractor, H. C. Mullet, Napa. Contract price, $2,372.65.

SCHOOL ALTERATION AND ADDITION—1 story, frame, $6,585. Pinole. Contra Costa Co., Cal. Architect. James T. Narbett, 704 Macdonald avenue, Richmond. Owners, Pinole-Hercules School District. Contractors. Keller & Crane, 3127 Andover, Oakland. Contract price, $6,585.

FRESNO, MODESTO STANISLAUS AND CENTRAL CALIFORNIA

BRIDGES—Reinforced concrete and timber. Cost not stated. Visalia, Tulare Co., Cal. Engineer, County Surveyor, Visalia. Owners, Tulare County. The County Supervisors at their last meeting instructed the County Surveyor to prepare plans and specifications for the following named bridges: Kings River bridge, Elk Bayou bridge Rocky Ford bridge, and Elk Bayou Ditch Company's Canal bridge. The County Clerk was instructed to advertise for bids on these structures. Bids to close July 5th at 2 p. m. Plans may be had from the Clerk of the Board of Supervisors at Visalia.

RESIDENCE — 2 story and base frame, $2,500. Fresno, Fresno Co., Cal Architect, none. Owner, G. H. Carlson Fresno Will contain five rooms, bath and basement garage. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fireplaces and tile or brick mantels. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET IMPROVEMENTS — $60,000. Taft, Kern Co., Cal. Engineer, James E. Sutton, Taft. Owners, City of Taft. Engineer James E. Sutton, President of the Pacific Municipality Association of Engineers, has been appointed by the Taft Trustees to prepare estimates on the cost of paving the streets in the city.

HIGHWAY CONSTRUCTION — Cost as follows. Bakersfield, Kern Co., Cal. Engineer, County Surveyor, Bakersfield. Owners, Kern County. Contractors, Coast Construction Co., 68 Post street, S. F., 7½ miles between Taft and Fellows Contract price, $14,766.15 Robert Sherer & Co., 650 Pacific Electric Bldg., L. A., 11 miles between Cameron and Mojave. Contract price $27,817.60.

SCHOOL—1 story and base, frame $2,500. Springville, Tulare Co., Cal. Architect, F. W. Griffin, Porterville Owners, Dennison School District. Will contain one class room. Interior finish pine and redwood. Stove for heating Exterior covered with cement plaster or rustic. Plans being prepared.

LABOR TEMPLE—2 story and base. brick. $25,000. Bakersfield, Kern Co. Cal. Architect, Tom Dupes. Owners ern County Labor Temple Association. Location, 1 street between 21st and 22nd streets, covering an area of 42 by 110 feet. Will contain offices, banquet rooms, meeting rooms and a large auditorium. Interior finish pine with some hardwood floors. Steam heat, oil burning plant. Exrerior faced with pressed brick. Plans complete and ready for figures.

CITY HALL ADDITION—1 story frame, $3,000. Taft, Kern Co., Cal. Architect, Orville L. Clark, Brower Bldg. Bakersfield. Owners, City of Taft. An addition of one story will be made to the old post office building, which will be used for a city hall. Besides the offices the building will house the fire department. Exterior covered with cement plaster. Plans are being prepared.

CITY HALL—2 story and base, brick $10,000. Coalinga, Fresno Co., Cal. Architects, Glass & Buttner, Rowell Bldg. Fresno. Owners, City of Coalinga. Location, northwest 6th and E streets Will contain, besides the city offices the fire department. Interior finish pine and redwood. Central heating system. Exterior faced with pressed brick. Plans are being prepared

HOSPITAL—1 story and base, reinforced concrete, $70,000. Fresno, Fresno Co., Cal. Architects, J. E. Krafft & Sons, Phelan Bldg., S. F. Owners, Barnett Hospital Association. The architects state that plans and specifications will be complete and ready for bids in about one month. The work has been described in these columns before. Further mention will be made.

HOTEL—3 story and base, brick Cost not stated. Porterville, Tulare Co., Cal. Architect, A. Kaulbeck Marsh-Strong Bldg., L. A. Owner, Dr. C. Edgar Smith, 99th and Vermont streets, L. A. Location Main and Cleveland streets. Will contain 100 rooms and a number of private and public baths. Interior finish pine and hardwoods. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Bath rooms tile. Marble and tile in entrance and lobby. Exterior faced with pressed brick.

The same owner is also having plans prepared for a large addition to the Central Garage and for a two-story and basement brick apartment house The apartment house will contain about forty rooms. The entire investment will represent an outlay of $165,000. Plans are being prepared.

STORES—1 story and base, brick $6,000. Fresno, Fresno Co., Cal. Architect, E. Mathewson, Forsythe Bldg. Fresno. Owner, F. Knoblock. Location, Tulare between O and P streets Will contain five stores. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans being prepared.

STORE—1 story and base, brick. Cost not stated. Tulare, Tulare Co. Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Linde Hardware Co. Location, K street. Interior finish pine. Patent store fronts and marble bases. Exterior covered with pressed brick. Plans being prepared

Contracts Awarded

ROAD MACHINE — $900. Hanford. Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Contractors, Graves-Spear Road Machinery Co., Monadnock Bldg., S. F. Contract price, $900.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

STREET IMPROVEMENTS — Cost not stated. Marysville, Yuba Co., Cal. Engineer, City Engineer Meek, Marysville. Owners, City of Marysville. Plans and specifications are now being prepared for the following street work: First street, from E to B; N street, from 1st to 7th; 7th street, from B to F; C street, from 6th to 7th; C street, from 1st to 2nd, 2nd street, from C to F; 3rd street, from C to B; 4th street, from C to E, 5th street, from B to D; 8th street, from B to E; D street, from 7th to 9th. All work, except on D street to 8th, is to be for 5-inch hydraulic concrete base and 1½ inch Topeka wearing surface. The work on D street is to be bitulithic pavement. Further mention will be made of this work when bids are called for by the Council.

STREET PAVING—Cost as follows. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. The City Commissioners opened the following bids for the grading and paving of portions of Miner avenue, from Hunter to East street: Chambers & Heafy, Tacon Block, Oakland, $2,715.62. W. S. Guze, 15 Park Way, Oakland, $3,013.-00, Whitlock & Gorrill, Hearst Bldg.-

F., $3,148.40; F. C. McIntire, 215 East Weber street, Stockton, $2,784; W. F. Edwards, 675 21st street, Oakland, $2,869; L. T. McFadden, $2,879; Fred Leffler, 110 Jessie street, S. F., $2,475. City Engineer's estimate, $3,205.95. The contract will be awarded shortly.

Bids were also opened at the same meeting for the construction of a 12-inch sanitary main sewer on North El Dorado street, from Sonoma to Wyandotte street: Clark & Henery, Ochsner Bldg., Sacramento, $12,298.40; Federal Construction Co., Sharon Bldg., S. F., $13,716.23; Paul & Caldwell, $10,959.60. City Engineer's estimate, $12,398.18. A contract will be awarded in a few days.

STREET PAVING—Cost not stated. Willits, Mendocino Co., Cal. Engineer, Town Engineer, Willits. Owners, Town of Willits. Two bids were received by the Town Trustees for the paving of the south end of Main street. The bidders were Fairbanks & Son, Willits, and D. O. Church Co., 68 Post street, S. F. The contract will be awarded by the Trustees shortly.

STREET IMPROVEMENT—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The City Commissioners have awarded the following contracts for street improvement: To Clark & Henery, Ochsner Bldg., Sacramento, the improvement of 33rd street from the north line of Y to the north line of Cypress avenue, etc., by removing all surplus material, construct concrete curb, concrete gutters, placing cast iron gutter drains, with 6 vitrified, ironstone sewer pipe elbows attached, concrete manholes complete with cast iron curbs and covers; 6 and 8-inch vitrified, ironstone sewer pipe drains, reconstruct one concrete manhole, grade the space between the property line curb and construct concrete sidewalk 6 feet in width and 3½ inches thick; grade the roadway and construct thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick. To McGillivray Construction Co., 1007 7th street, Sacramento, for the improvement of U street south of the center line thereof, in front of the east half of lot 3, in the block bounded by U and V and 30th and 31st streets by removing all the surplus material, grading the roadway and constructing thereon an asphaltic macadam pavement 4 inches thick.

RESIDENCE — 1 story and base, frame, $2,500. Sacramento, Cal. Architect, none. Owner, W. D. McKay, 3020 E street, Sacramento. Location, 3133 E street. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white neamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BRIDGE—Reinforced concrete, $10,000. Placerville, El Dorado Co., Cal. Engineer, County Surveyor, Placerville. Owners, El Dorado County The County Supervisors have rejected all bids received for the construction of the proposed American River bridge at Coloma because it is the intention of the Board to spend not more than $10,000 for the structure, while the bids received ranged from $14,958 to $20,500. It is probable that the plans will be ordered revised and new bids called.

STREET IMPROVEMENTS—Cost not stated. Sacramento, Cal. Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 20th at 11 a. m. for street improvements ordered under the following resolutions:

That Channing Way, from the south line of Schley avenue to the north line of lot M of Wright-Kimbrough Tract No. 20, be improved by removing and disposing of 480 square feet of concrete sidewalk, 1,928 linear feet of wooden curb and all other surplus and refuse material; constructing concrete curb on official line and grade, concrete gutter on official line and grade; 6 and 8-inch, vitrified, ironstone sewer pipe drains; placing cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; concrete manholes complete with cast iron curbs and covers; grading the space between the property line and curb, and construct concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches in thickness, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick

That Sylvan Way, from the south line of Schley avenue to the north line of lot M of Wright & Kimbrough Tract No. 20, be improved by removing and disposing of 480 square feet of concrete sidewalk, 2,507 linear feet of wooden curb and all other surplus and refuse material; constructing concrete curb on official line and grade, concrete gutter; constructing 6 and 8-inch, vitrified, ironstone sewer pipe drains; constructing 6-inch, vitrified, ironstone sewer pipe elbows attached; concrete manholes complete with cast iron curbs and covers; grading the space between the curb and property line and constructing concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick and an asphaltic concrete wearing surface 1½ inches thick.

That the alley between P and Q streets, from the east line of 4th street to the west line of 5th street, be improved by removing and disposing of 67.6 square feet of concrete sidewalk and all other surplus and refuse material; constructing one concrete catch-basin complete with cast iron curb and cover; placing 8 linear feet of vitrified, ironstone sewer pipe; grading the roadway and constructing thereon an asphalt pavement, consisting of an asphalt macadam foundation 3 inches in thickness and a sheet asphalt wearing surface 1½ inches in thickness.

SEWER CONSTRUCTION—Cost not stated. Sacramento, Cal. Engineer City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 20th at 11 a. m. for the furnishing of materials and constructing a trunk line sewer and appurtenances in the streets, alleys and rights-of-way in the city of Sacramento. The principal items of the work are as follows: 2,126 linear feet of 24-inch, vitrified pipe sewer; 787 linear feet of 21-inch, vitrified pipe sewer; 1 manhole 5 feet in diameter; 9 manholes, 4 feet in diameter.

STREET PAVING—Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. The City Council has decided to authorize the paving of two miles of streets, covering practically all of the approach to the county road at the city limits, with Fifth and B streets. The exact route of the paving has not been determined, but it is understood that it will follow from the city limits along Broadway to Cedar to B and 5th. One mile is to be done by the Johnson-Shea Co, Central Bank Bldg., Oakland, at 50c the lineal foot for a bituminous wearing surface. The other mile is to be done by the Richmondite Co. at 60c the lineal foot for Richmondite wearing surface. The contest between the companies doing the work will be keen. By the wearing qualities and general satisfaction of the pavements laid will be largely determined the character to be laid on Myrtle avenue and other streets to be improved.

IRRIGATION SIPHON—Concrete and steel. Cost not stated. Anderson, Shasta Co., Cal. Engineer, Chief Engineer, Anderson-Cottonwood District, Anderson. Owners, Anderson-Cottonwood Irrigation District. The directors of the Anderson-Cottonwood Irrigation District have rejected all bids for the construction of the Churn Creek siphon. The lowest bid was $37,500. The district will construct the siphon under the Day Labor system. The siphon conveying water under the Sacramento River into Churn Creek bottom will be nearly a mile in length. Six hundred feet of it—the under river part—will be cast iron pipe 36 inches in diameter. The rest of the siphon will be concrete pipe 4 feet in diameter.

SCHOOL—1 story, frame addition, $15,000. Chico, Butte Co., Cal. Architect, State Architect George B. McDougall, Forum Bldg., Sacramento. Owners, State of California. An addition, containing eight class rooms is proposed for the Chico State Normal School. If funds can be secured the work will be advertised at once. Further mention will be made.

FACTORY—2 story and base, brick, $12,000. Stockton, San Joaquin Co. Cal. Architect, Joseph Losekann, San Joaquin Bldg., Stockton. Owners, Wagner Leather Co., 120 East Oak street, Stockton. Location, southwest Hunter and Oak streets. The front portion of the building will be arranged for offices. Interior finish pine and redwood. Some concrete floors. Special machinery. Exterior faced with stock brick. Plans complete and figures being taken.

LODGE HALL—4 story and base, Class C construction, $70,000. Sacramento, Cal. Architect, Washington J. Miller, 417 Market street, S. F. Owners, Sacramento Native Sons' Hall Association. Location, 11th and J Sts. Bonds for the construction of the building have been sold and actual

construction will be started not later than July 1st. Further mention will be made of the work at that time.

Contracts Awarded.

STREET IMPROVEMENTS — Cost as follows. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Contractors, Paul & Caldwell, Stockton, improvement of Miner avenue. Contract price, $10,959.60. Fred Leffler, 110 Jessie street, S. F., 12-inch sewer Contract price, $2,476.60.

RESIDENCE — 2 story and base frame, $7,024. Woodland, Yolo Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. G. Stephens. Contractor, Phil Sheridan, 1510 Harmon street, Berkeley. Contract price, $7,024.

APARTMENT HOUSE—3 story and base, brick, $26,250. Stockton, San Joquin Co., Cal. Architect, Ralph P. Morrell, Odd Fellows' Bldg., Stockton. Owner, Thomas F. Walsh. Contractor L. S. Peletz, 428 East Fremont street, Stockton. Contract price, $26,250.

HOTEL AND STORES—3 story and base, brick, $14,250. Stockton, San Joaquin Co., Cal. Architect, Louis Mastropasqua, 580 Washington street, S. F. Owner, G. Firpo. Contractors Daniel & Green, 623 West Park street, Stockton. Contract price, $14,250.

LOS ANGELES AND SOUTHERN CALIFORNIA

RESIDENCE—2 story and base, hollow tile, $50,000 San Fernando, Los Angeles Co., Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, Merritt H. Adamson. Location, San Fernando Valley. Will contain 26 rooms, 5 baths, sleeping porches and conservatory. Separate out buildings. Interior finish pine, hardwood and white enamel. Hardwood floors. Central heating system, probably hot water with oil burning furnace. Hot water circulating system. Open fire places and tile and brick mantels. Bath rooms tile. Exterior covered with cement plaster. Plans nearly complete and segregated figures to be taken.

RESIDENCE — 2 story and base hollow tile, $40,000. Pasadena, Los Angeles Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner Mrs. J. C. Daniels. Location, Arroyo Seco. Will contain 17 rooms, 5 baths and sleeping porches. Separate garage. Interior finish hardwood and white enamel with hardwood floors throughout. Central heating system and hot water circulating system. Oil burning plant Bath rooms tile. Open fire places and tile and brick mantels. Exterior faced with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE—3 story and base, brick. Cost not stated. Los Angeles, Cal. Architect, Leonard L. Jones Delta Bldg., L. A. Owner's name withheld. Location, northeast 23rd street and Central avenue, covering an area of 117 by 126 feet. Will contain six stores on the ground floor and 46 rooms above. Interior finish pine and hardwood with some white enamel. Hardwood floors. Steam heat and hot water supply. Oil burning equipment. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans are being prepared.

SCHOOL ADDITIONS—2, 2 story, frame, $25,000. Los Angeles, Cal. Architect, Architectural Dept. Board of Education, Security Bldg., L. A. Owners, City of Los Angeles. Bids will be received up to June 22nd for two additions to be made to the Trinity School Plans can be secured from the Board of Education.

WAREHOUSES—1, 1 and 1, 3 story and base, reinforced concrete, $48,000 Wilmington, Los Angeles Co., Cal. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owners, Los Angeles Warehouse Co., Contractors, C. J. Kuback Co., Merchants' National Bank Bldg., L. A. Contract price, $43,000.

HOTEL—4 story and base, brick and steel, $100,000. Long Beach, Los Angeles Co., Cal. Architect, L. F. S. Syndicate, Investment Bldg., L. A. Owners, C. E. Newberry and Albert Mercer. Location, Ocean Front and Collins Way, covering an area of 100 by 100 feet. Stores on the first floor besides the hotel lobby Upper floors will contain 115 rooms and a large number of private baths. Interior finish pine and hardwood with some hardwood floors. Steam heat, oil burning plant, hot water supply and vacuum cleaning. Automatic elevator. Patent store fronts and marble bases. Exterior will be faced with pressed brick. Plans being prepared.

LOFTS—5 story and base, reinforced concrete. Cost not stated. Los Angeles, Cal. Architects, Mayberry & Parker, Pacific Electric Bldg., L. A. Owner, Valentine Kratz. Location, Los Angeles street between 7th and 8th streets, covering an area of 55 by 137 feet. Interior finish pine with some hardwood. Steam heat, oil burning plant, elevator service and hot water supply. Metal window sash and frames. Exterior faced with cement plaster. Plans complete and figures to be called for at once.

Contracts Awarded.

STREET IMPROVEMENT — $28,100. Los Angeles, Cal. Engineer, County Surveyor, L. A. Owners, Los Angeles County. Contractor, Fred Hoffman, 11 East 12th street, Long Beach. Contract price, $28,100.

STREET IMPROVEMENT — $22,809.82. Redondo, Los Angeles Co., Cal. Engineer, City Engineer, Redondo. Owners, City of Redondo. Contractors, California-Arizona Construction Co., 1700 East Washington street, L. A. Contract price, $22,809.82.

RESIDENCE—2 story and base, hollow tile, $21,740. Los Angeles, Cal. Architect, none. Owner, H. C. Oakley Contractors, Milwaukee Building Co., Wright and Callender Bldg., L. A. Contract price, $21,740.

BRIDGES — Timber and reinforced concrete. Cost as follows. San Luis Obispo, San Luis Obispo Co., Cal. Engineer, County Surveyor, San Luis Obispo Owners, San Luis Obispo County.

Bridge over Huer-Huero Creek—There were eight bidders, the award being made to Gutleben Bros. of San Francisco (New Call Bldg.) for $12,981.

San Juan River Bridge—Eight bidders, the award being made to Gutleben Bros. of San Francisco for $18,458.

Salinas River Bridge—Eight bidders. Awarded to Gutleben Bros., San Francisco, for $12,343.

Pozo Creek Bridge—Three bidders Awarded to W. L. Gilham & Sons, 678 South 3rd street, San Jose, for $3,475.

Pico Creek Bridge—Six bidders. Awarded to E. P. Cole Construction Co., of San Luis Obispo for $5,449.

Arroyo del Puerto Bridge—Six bidders. Awarded to E. D. Cole construction Co. of San Luis Obispo for $4,780.

Little Cayucos Creek Bridge—Eight bidders. Awarded to E. D. Cole Construction Co. of San Luis Obispo for $5,530.

Toro Creek Bridge—Eight bidders. Awarded to Theodore M. Maino of San Luis Obispo for $5,100.

Canada Verde Creek Bridge—Eight bidders. Awarded to the Midland Bridge Co. of St. Louis for $5,115.

Isom, Ross and Morganti Creeks—Three bidders. Awarded to F. F. Morse of San Francisco for $4,195.

Deleissigues and Meischau Creeks—Two bidders. Awarded to E. D. Cole Construction Co. of San Luis Obispo for $3,673.

WATER SYSTEM—$25,731. Los Angeles, Cal. Engineer, City Engineer. Los Angeles. Owners, Los Angeles County Water Works District No. 1. Contractors, Municipal and Industrial Equipment Co., Story Bldg., L. A. Contract price, $25,731.

SEATTLE AND WASHINGTON

DOCK EXTENSION—$30,000. Seattle, Wash. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids will be received up to June 21st for the construction of an additional 415 feet of dock 25 feet wide at the Pell street wharf. Plans can be secured from the engineer.

WATER SUPPLY SYSTEM—$473,000. Everett, Wash. Engineer, City Engineer, Everett. Owners, City of Everett. Contractors, Washington Paving Co., L. C. Smith Bldg., Seattle. Contract price. $473,000. Time of completion is given as eighteen months. The work involves 23,000 feet of 28-inch steel pipe 100,000 feet of 28-inch wood stave pipe. 9,700 feet of 22-inch wood stave pipe 100 feet of 30-inch class D flexible joint cast iron pipe, 60,000 cubic yards earth excavation, 3,200 cubic yards rock excavation, 36,000 lineal feet of backfill, 1,200 lineal feet of pipe line trestle, 1,760 lineal feet of tunnel in rock, 150 cubic yards of concrete, 300 feet of timbered tunnels under railroads, 7,600 pipe cradles, 480 short piling, 100 feet of concrete pipe conduit, 44 feet of steel flume, 95 air valve housings, 7 brick manholes, 109 2, 2½ and 3½-inch air valves, 94 8-inch gate valves, 1 16-inch gate valve, 1 30-inch sluice gate 5,000 tons of hauling, 20 miles of clearing and grubbing strip 16 feet wide, 1 timber and rock fill diversion dam, 1 keeper's house, 1 concrete receiving basin, 2 navigable stream crossings and 4 small stream crossings.

POST OFFICE 1 and 2 story, brick and stone. Cost not stated. Vancouver, Wash. Architect, Supervising Architect, Washington, D. C. Owners United States Government. Bids will be opened in Washington, D. C. on July 14th, for the construction of this building. Interior finish pine and hardwood. Steam heat and oil burning plant. Marble and tile work. Exterior faced with pressed brick and cut stone. Plans can be secured from either the Supervising Architect or from the Custodian of the site at Vancouver. An official proposal appears in another column of this issue.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1717	Meinen	Ralston	1421
1718	Swanberg	Swanberg	2000
1719	Trovatore	Guisti	500
1720	Richardson	Reedy	450
1721	Hansen	Hansen	500
1722	Yngve	Yngve	500
1723	Curtin	Curtin	400
1724	Hilberton	Plant	2000
1725	Gallagher	Gallagher	400
1726	Worthington	Pendney	1950
1727	Pope	Martin	1539
1728	Hart	Denke	1660
1729	Laujardiere	Cavaglia	8640
1730	Ferguson	Petersen	3177
1731	Glynn	Sharman	2400
1732	Lawrence	Branch	4396
1733	Applegarth	Branch	2380
1734	Ferguson	Heidenreich	2900
1735	Barner	Koenig	3000
1736	White	Fink	1000
1737	Stark	Sanborn	400
1738	Block	Mudrick	500
1739	Boesch	Boesch	800
1740	Owl Coffee	Brumfield	400
1741	Schmiedell	Buckland	500
1742	Muegge	Moller	400
1743	Hirsch	Moller	400
1744	Born	Born	4000
1745	Lupori	Seghieri	1425
1746	Brosnan	Helms	1750
1747	S P Co.	Raisch	—
1748	Leigh	Schultz	3000
1749	Same	Same	3000
1750	Same	Same	3000
1751	Ford Motor	Owner	400
1752	Milwaukee Brwy	Camp	450
1753	Spreckels	Pomton	400
1754	Carrie	Carrie	500
1755	Wedekin	Montrouil	500
1756	Larsen	Larsen	1200
1757	Becaas	Becaas	400
1758	Wagner	Novelty	400
1759	Pringle	Pringle	500
1760	Waltemathee	Owner	400
1761	Pescia	Johnson	16454
1762	Same	Clarke	900
1763	Bibbero	Goodman	3900
1764	Levin	Trevia	4500
1765	Gilmour	Brandon	6000
1766	Scott	Field	1620
1767	S P Company	Fay Impv	—
1768	O'Toole	O'Toole	800
1769	Laskey	Pegel	407
1770	Morgenthal	Nelson	2000
1771	Venturi	Venturi	1000
1772	Koenig	Koenig	500
1773	Hoffmann	Hall	3000
1774	Meredith	Tomnitz	1000
1775	King	Pearson	1500
1776	Mitchell	Walthall	3000
1777	Weissbein	Dunn	2895
1778	Mitchell	Mullen	4500
1779	Pacific Hdwre.	Cahill	2800
1780	Schlimper	Jones	2950
1781	Williams	Lundy	1000
1782	Peckham	Firth	1000
1783	Zellerbach	Macdonald	16800
1784	Wood	Brode	879
1785	Same	Gilley	1520
1786	Same	McElhinney	800
1787	Same	Morrison	1100
1788	Same	De Lew	2800
1789	Same	Creighton	1620
1790	Peyser	Brode	879
1791	Same	Gilley	1520
1792	Same	McElhinney	800
1793	Same	Morrison	1100
1794	Same	De Lew	2800
1795	Same	Creighton	1620
1796	Reay	Wilson	1037
1797	Same	Kohlwey	344
1798	Same	Scott	975
1799	Same	Petterson	5416
1800	Mkt St Rlty	G G Iron	85650
1801	Carrara	Rosina	5950
1802	Zalles	Tantel	500
1803	Ball	Ball	450
1804	Judson	Judson	4000
1805	Augsbury	Lindgren	15000
1806	Levy	Moller	400
1807	Pacific Union	Henderson	800
1808	Ghiotto	Ghiotto	1900
1809	Shields	Sayre	475
1810	Grimes	Grimes	850
1811	Royal Theatre	Novelty	500
1812	Same	Same	500
1813	Olivia	Delucchi	500
1814	Hallahan	Klahn	6270
1815	Trimble	Schwarz	6640

(Correction)

EXCAVATING, ETC.

(1715) NW MISSION AND MINT. All work for excavating and holding for stores and offices.
Owner.....Remedial Loan Association
Construction Manager...Frederick Whitton, 251 Kearny, S. F.
Contractor..Sibley Grading & Teaming Co., 284 Dolores, S. F.
Filed June 2, '16. Dated June 1, '16.
Monthly payments of..... 75%
Usual 35 days.....Balance
TOTAL COST, $570
Bond, $285. Surety, Massachusetts Bonding & Insurance Co. Limit, 20 days after June 5. Forfeit, $5. Plans and specifications filed.

RAISE DWELLING

(1717) NO. 4225 TWENTY-THIRD. Raise and underpin dwelling.
Owner.....Metta Meinen, Premises.
Architect...None.
Contractor..F. F. Ralston, 132 Commonwealth, S. F.
COST, $1421

ADDITION

(1718) NE MARKET AND POWELL. Add to skating rink.
Owner.....C. Swanberg, Premises.
Architect...None.
Day's work. COST, $2000

ALTERATIONS

(1719) NO. 504 BROADWAY. Alter restaurant.
Owner.....Il Trovatore Restaurant, 520 Broadway, S. F.
Architect...None.
Contractor..S. A. Guisti, 617 Sansome, San Francisco.
COST, $500

ALTERATIONS

(1720) NO. 448 CORTLAND. Alter store and butcher shop.
Owner.....Mrs. B. Richardson, 440 Cortland, San Francisco.
Architect...None.
Contractor..Wm. M. Reedy, 157 Bronte, San Francisco.
COST, $450

FRAME DWELLING

(1721) W De MONTFORD 50 N Faxon. One-story and basement frame dwelling.
Owner.....Chas. Hansen, Premises.
Architect...None.
Day's work COST, $490

FRAME DWELLING

(1722) N BEAVER 175 E Castro. Two story and basement frame dwelling.
Owner.....Karl Yngve, 133 Alpine Terrace, San Francisco.
Architect...None.
Day's work. COST, $5000

ADDITION

(1723) NO. 1545 LINCOLN WAY. Add four rooms and bath.
Owner.....Mary Curtin.
Architect...None.
Day's work. COST, $400

FRAME DWELLNG

(1724) W SEVENTEENTH AVE 75 S Balboa. Two-story and basement frame dwelling.
Owner.....Geo. C. Holberton, 445 Sutter, San Francisco.
Architect...None.
Contractor..W. Plant, 4296 24th, S. F.
COST, $2000

REPAIRS

(1725) NO. 918 BRODERICK. Repair porches and steps.
Owner.....Geo. E. Gallagher, Prem.
Architect...None.
Day's work. COST, $400

FRAME DWELLING

(1726) S SAN JOSE AVE, OCEAN & Santa Ynez. One and one-half-story and basement frame dwelling.
Owner.....Dee Worthington, 2025 San Jose Ave., San Francisco.
Archotect...None.
Contractor..A. F. Pendney, 239 Bartlett, San Francisco.
COST, $1950

FRAME ADDITION

(1727) E SEVENTEENTH AVE 150 S Lincoln Way. Addition to frame flats
Owner.....Edwin Pope.
Architect...None.
Contractor..W. H. Martin, 1278 21st Ave., San Francisco.
COST, $1539

ALTERATIONS

(1728) NE CALIFORNIA AND DIVISADERO. Alter for grocery.
Owner.....James P. Hart, NW California & Divisadero, S. F.
Architect...E. H. Denke, 1317 Hyde, San Francisco.
Contractor..F. G. Denke, 1317 Hyde, San Francisco.
COST, $1660

FRAME FLATS

(1729) N GREEN 183-4 W Mason. Three-story and basement frame (3) flats.
Owner.....Eugene Laujardiere, 504 Brush, Oakland.
Architect...None.
Contractor..N. Cavaglia, 946 Greenwich San Francisco.
COST, $8640

CONCRETE BUILDING

(1730) S FIFTEENTH 137-6 W Valencia W 75xS 106. Concrete work, reinforcing rods and cement plastering for one-story reinforced concrete building.
Owner.....Phineas F. Ferguson, Cr. Antispetic Laundry Co., 40th and Broadway, Okd.
Architect...T. Paterson Ross, 310 California, San Francisco.

Contractor..H. L. Petersen, 62 Post, San Francisco.
Filed June 3, '16. Dated May 31, '16.
Reinforcing rods in place ready for concrete to be poured.....$ 600
Concrete poured to bottom of roof trusses 600
Completed and accepted..... 1177
Usual 35 days..... 800
TOTAL COST, $3177
Bond, $1500. Sureties, H. A. Hagan and C. Beckman. Limit, 20 days from filing Forfeit, $10. Plans and specifications filed.

FRAME DWELLNG
(1731) NE THIRTEENTH AVE (South) 100 SE "M" (South) SE 25xNE 100 plu Elk 248 South San Francisco and Rail Road Association. All work for two-story frame dwelling.
Owner.....Thos. Glynn, McKinnon & Mendell, San Francisco.
Architect .. L. J. Klein.
Contractor..T. L. Sharman, 1440 Shafter, San Francisco.
Filed June 3, '16. Dated June 1, '16.
Frame up $600
Brown coated 600
Finished and completed..... 600
Usual 35 days..... 600
TOTAL COST, $2400
Bond, $1200. Sureties, J. E. Donoghue and Leon J. Hermitte. Limit, 65 days. Forfeit, none. Plans and specifications filed.

CONCRETE WORK, ETC.
(1732) S VALLEJO 35 E Broderick S 137-6xE 35. Concrete and rough carpenter work for residence.
Owner.....C. M. Lawrence.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Junious Branch, 1080 Sanchez, San Francisco.
Filed June 3, '16. Dated June 1, '16.
Installments on 1st of each month of 75%
Usual 35 days..... 25%
TOTAL COST, $4396
Bond, none. Limit, rapidly as practicable. Forfeit, none. Plans and specifications filed.

CONCRETE WORK, ETC.
(1733) S VALLEJO 70 E Broderick S 137-6xE 35. Concrete, rough carpentry and mill work for frame residence.
Owner.....G. A. Applegarth, Claus Spreckels Bldg., S. F.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Junious Branch, 1080 Sanchez, San Francisco.
Filed June 3, '16. Dated June 1, '16.
Installments on 1st of each month of 75%
Usual 35 days..... 25%
TOTAL COST, $3380
Bond, none. Limit, rapidly as practicable. Forfeit, none. Plans and specifications filed.

MASONRY WORK
(1734) SE FIFTEENTH AND ALBION Ave S 106xE 32. Masonry work for two-story brick building.
Owner.....Phineas F. Ferguson, Care Antiseptic Laundry, 40th & Broadway, Oakland.
Architect ...T. Paterson Ross, 310 California, San Francisco.
Contractor..William Heidenreich, 12 Henry, San Francisco.
Filed June 3, '16. Dated May 31, '16.
Walls ready for 2nd story joists.$725
Walls ready for ceiling joists.... 725
Completed and accepted..... 725
Usual 35 days..... 725
TOTAL COST, $2900
Bond, $1450. Sureties, M. Auerbach and N. M. Anthony. Limit, 14 days from filing. Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(1735) NW TWENTY-SECOND AND Howard N 50xW 100. All work except painting, plumbing, gas fitting, electric work, brick work and grading for alterations and additions to make a two-story frame building into undertaking parlor and flats.
Owner.....William Barner, 2604 Howard, San Francisco.
Architect ...M. J. Welsh, Treat Ave & 22nd, San Francisco.
Contractor..Ludwig B. G. Koenig, 3525 19th, San Francisco.
Filed June 3, '16. Dated June 3, '16.
Frame up $750
1st coat mortar on..... 750
Completed 750
Usual 35 days..... 750
TOTAL COST, $3000
Bond, $3000 Sureties, Wm. Koenig and O. A. Craemer. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

ALTERATIONS
(1736) NO. 51 GRANT AVE. New front.
Owner.....Wm. White & Co., Inc., 51 Grant Ave., San Francisco.
Architect ...None.
Contractor..The Fink & Schindler Co., 228 13th, San Francisco.
COST, $1000

ALTERATIONS
(1737) NO. 128 SEVENTH AVE. Cement floor, garage entrance and steps
Owner.....Mrs. W. E. Starks, Prem.
Architect ...None.
Contractor..L. Sanborn, 71 7th Ave., San Francisco.
COST, $400

ALTERATIONS
(1738) NO. 251 GERARD. Alter and raise dwelling.
Owner.....M. Bloek, Premises.
Architect ...None.
Contractor..C. Mudrick, 520 Charter Oak, San Francisco.
COST, $500

ALTERATIONS
(1739) NOS. 960-962 MISSION. Erect gallery, stairs, etc.
Owner.....Boesch Lamp Co., 1135 Mission, San Francisco.
Architect ...None.
Day's work. COST, $800

ELECTRIC SIGN
(1740) NO. 15 MARKET. Electric sign.
Owner.....Owl Coffee House, Prem.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

FRAME GARAGE
(1741) NO. 2400 STEINER. One-story frame garage.
Owner.....E. G. Schmiedell.
Architect ...None.
Contractor..P. G. L. Buckland, Box 88, Ross, California.
COST, $500

CONCRETE FLOOR,
(1742) NO. 460 HARRISON. Concrete floor, etc.
Owner Muegge & Boyde, Prem.
Architect ...None.
Contractor..R. W. Moller, 736 Call Bldg., San Francisco.
COST, $400

FRAME GARAGE
(1743) NO. 1192 PAGE. One-story frame garage.
Owner.....J. Hirsch, Premises.
Architect ...None.
Contractor..R. W. Moller, 736 Call Bldg., San Francisco.
COST, $400

FRAME RESIDENCE
(1744) LOT 21 LINCOLN MANOR. Two-story and basement frame residence
Owner.....S. A. Born Bldg. Co., 660 Market, San Francisco.
Architect ...None.
Day's work. COST, $4000

FRAME FLATS
(1745) S VALLEJO 137-6 W Hyde 27-6 x137-6. Concrete and cement work, grading, excavation and angle irons for anchoring fence and poles for a three story and basement frame building (flats).
Owner.....Enrico Lupori, 1952 Larkin San Francisco.
Architect ...Italo Zanolini, 604 Montgomery, San Francisco.
Contractor..A. Seghieri & Bro., Inc., 35 Cook, San Francisco.
Filed June 5, '16. Dated May 31, '16.
Payments weekly of..... 75%
Usual 35 days..... 25%
TOTAL COST, $1425
Bond, $712.50. Sureties, New Amsterdam Casualty Co. Limit, 20 days. Forfeit, $10. Plans and specifications filed.

FRAME COTTAGE
(1746) N CLARA near Fifth 25x80. All work for four-room frame cottage.
Owner.....W A. and Gertrude M. C. Brosnan, 392-A 5th, S. F.
Architect ...None.
Contractor..Edw. F. Helms, 4303 California, San Francisco.
Filed June 5, '16. Dated June 3, '16.
Rough frame up.....$500.00
Brown coated 500.00
Standing trim on..... 312.50
Usual 35 days..... 437.50
TOTAL COST, $1750.00
Bond, none. Limit, Aug. 30. Forfeit, none. Plans and specifications filed.

PAVEMENT
(1747) S OCEAN AVE at right of way of S. P. Co. as per diagram. Asphalt pavement on concrete base with catch basin and culvert and armored concrete curb, approximately 1225 square feet curbing 52 lineal feet.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..Raisch Improvement Co., Crocker Bldg., S F.
Filed June 5, '16. Dated Mar. 15, '16.
Uusal 35 days after completed and accepted ... .
TOTAL COST—Asphalt pavement, 19 cents per sq. ft; armored concrete curb, 75 cents per lineal foot; catch basin and culvert, $95.
Bond, limit, forfeit, none. Specifications only filed.

FRAME DWELLING
(1748) E THIRTY-FOURTH AVE 150 N Balboa. Two-story and basement frame dwelling.

Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(1749) E THIRTY-FOURTH AVE 175 N Balboa. Two-story and basement frame dwelling.
Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

FRAME DWELLING
(1750) E THIRTY-FOURTH AVE 200 N Balboa. Two-story and basement frame dwelling.
Owner.....Leigh & Schultz, 419 21st Ave., San Francisco.
Architect ...None.
Day's work. COST, $3000

ELECTRIC SIGN
(1751) SE HARRISON & TWENTY-first. Electric sign.
Owner.....Ford Motor Co., Premises.
Architect ...None.
Day's work. COST, $400

BULKHEAD
(1752) NO. 2453 LOMBARD Erect bulkhead.
Owner.....Milwaukee Brewing Co., Cor. 10th and Brannan, San Francisco.
Architect ...None.
Contractor..Camp & Carillon, 180 Jessie, San Francisco.
COST, $450

SEATS, ETC.
(1753) NO. 487 VALENCIA. Erect seats, etc.
Owner.....Rudolph Spreckels.
Architect ...None.
Contractor..J. M. Pomton, 177 Saturn, San Francisco.
COST, $400

SHED
(1754) NO. 555 ARGUELLO BLVD Reconstruct shed.
Owner.....L. Carrie, Premises.
Architect ...J. Chas. Flugger, 766 2nd Ave., San Francisco.
Day's work. COST, $500

ALTERATIONS
(1755) NO. 459 JERSEY. Alter and add to dwelling.
Owner.....Bertha Wedekin, Prem.
Architect ...None.
Contractor..P. W. Montrouil, 270 Andover, San Francisco.
COST, $500

FRAME DWELLING
(1756) NO. 251 STATE (rear). One-story and basement frame dwelling.
Owner.....Hans Larsen, 249 State San Francisco.
Architect...None.
Day's work. COST, $1200

RATPROOF, ETC.
(1757) NO. 5 KEYES ALLEY. Ratproof, etc., lodgings.
Owner.....B. Becaas, 915 Pacific, San Francisco.
Architect ...None.
Day's work. COST, $400

ELECTRIC SIGN
(1758) NO. 17 KEARNY. Electric sign.
Owner.....C. M. Wagner, 502 Market, San Francisco.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ALTERATIONS
(1759) E POLK 150 S Sutter. Alter store.
Owner.....Pringle Real Estate Co., Russ Bldg., S. F.
Architect ...None.
Day's work. COST, $500

RETAINING WALL
(1760) NO. 561 SANCHEZ. Erect reinforced concrete retaining wall.
Owner.....Henry Waltemathee, Prem.
Architect ...None.
Day's work. COST, $400

FRAME FLATS
(1761) SE MACONDRY & LEAVENworth E 65-6xS 48. All work except painting for three-story frame flats.
Owner.....Attilio F. Pescia, 625 Vallejo. San Francisco.
Architect ...Jos. M. Geary, 2581 Post, San Francisco
Contractor..Joel Johnson, 110 Jessie, San Francisco.
Filed June 6, '16. Dated June 5, '16.
Foundation completed.....$1200
Frame up and roof on..... 2785
Brown coated 2785
Standing trim on..... 2785
Completed and accepted..... 2785
Usual 35 days..... 4114
TOTAL COST, $16,454
Bond, $8227. Surety, Guardian Casualty & Guaranty Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1762) PAINTING ON ABOVE.
Contractor..Clarke & Dickson, 1754 Haight, San Francisco.
Filed June 6, '16. Dated June 5, '16.
Progressive payments of..... 75%
Usual 35 days.....Balance
TOTAL COST, $900
Bond, $450. Surety, Massachusetts Bonding & Insurance Co Limit, none. Forfeit, none. Plans and specifications filed.

FLATS
(1763) S PACIFIC AVE 165 E Baker E 27-6xS 127-8¼. Excavation and grading, concrete and artificial stone work, etc., for two-story, basement and attic building (flats).
Owner.....David Bibbero, 2961 Pacific Ave., San Francisco.
Architect ...Bernard J. Joseph, New Call Bldg., San Francisco.
Contractor..Ernest L. Fischer (as Geo Goodman Artificial Stone Co.), 62 Post, S. F.
Filed June 6, '16. Dated May 31, '16.
Excavation and grading done, rear bulkhead walls built and reinforced cement piers under main building completed $1000
Concrete foundation and basement and sub-basement walls and piers done 1000
Completed and accepted..... 925
Usual 35 days..... 975
TOTAL COST, $3900
Bond, $1950. Sureties, F. E. Knowles and Jno. Cassaretto. Limit, without delay. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1764) NW HAIGHT AND COLE. Excavation, concrete, cement finish carpenter and mill work for alterations and additions to Haight Street Theatre.
Owner.....S. H. Levin.
Architect ...M. Mattanovich, 1002 Hewes Bldg., San Francisco
Contractor..Trevia & Pasqualetti, 32 Harwood Place, S. F.
Filed June 6, '16. Dated June 1, '16.
Concrete has been poured....$1687.50
Completed and accepted..... 1687.50
Usual 35 days..... 1125.00
TOTAL COST, $4500.00
Bond, $4500. Surety, The Fidelity & Casualty Co. Limit, as required. Forfeti, $50. Bonus, $50. Plans and specifications filed.

(1765) NE SEVENTH AND HOWARD, Brick work, etc. for three-story and basement brick building.
Owner.....William G. Gilmour, 180 Jessie, San Francisco.
Architect....Rousseau & Rousseau, 110 Sutter, San Francisco.
Contractor..Brandon & Lawson, 180 Jessie, San Francisco.
Filed June 6, '16. Dated May 16, '16.
Second-story joists on.....$1500
Ready for 3rd-story joists..... 1500
Finished and accepted..... 1500
Usual 35 days 1500
TOTAL COST, $6000
Bond, $3,000. Sureties, The Aetna Accident and Liability Co. Forfeit, none. Limit, quickly as possible. Plans and specifications filed.

ALTERATIONS
(1766) 2016 AND 2020 FILLMORE, between Pine and California. Alterations and additions for a two-story frame building (stores and flats.)
Owner.....Laurence I. Scott, 201 Sansome, S. F.
Architect....Arthur S. Bugbee.
Contractor..Fred Field, 2240 23rd avenue, Oakland.
Filed June 6, '16. Dated June 5, '16.
Ready for plaster $611
Accepted 611
Usual 35 days 408
TOTAL COST, $1630
Bond, Sureties, none. Forfeit, $5. Limit, July 22, 1916. Plans and specifications filed.

PAVING YARD
(1767) VICINITY OF FIFTEENTH, Alabama, Florida and Alameda Sts. All work for paving team yard.
Owner.....Southern Pacific Co., Flood Bldg., San Francisco.
Architect ...None.
Contractor..The Fay Improvement Co., Phelan Bldg., S. F.
Filed June 7, '16. Dared May 15, '16.
Payments not given.....
TOTAL AMOUNT estimated at 34,000 square feet at 8.2c per sq. ft.
Bond, $1100. Surety, New Amsterdam Casualty Co. Limit, forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1768) NO. 697 RHODE ISLAND. One story and basement frame dwelling.
Owner.....Colman O'Toole, Premises.
Architect ...None.
Day's work. COST, $800

ALTERATIONS
(1769) NO. 128 JORDAN AVE. Raise dwelling, new plumbing, etc.

Owner.....Mrs. B. Lasky, Premises.
Architect ...None.
Contractor..Frank Pegel, 366 10th Ave., San Francisco.
COST, $407

ALTERATIONS
(1770) NO. 1909 VALLEJO. Concrete work, hardware, shades, chimneys, electric wiring, cabinets, plumbing, etc., for interior and exterior alterations for frame residence.
Owner.....Mrs. Minnie Morgenthal, 1684 48th Ave., S. F.
Architect ...None.
Contractor..O. E. Nelson, 1215 Monterey Ave., San Francisco.
COST, $2000

FRAME DWELLING
(1771) SE BUCHANAN AND UNION. One-story and basement frame dwlg.
Owner.....T. Venturi, 1774 Filbert, San Francisco.
Architect ...J. A. Porporato, 619 Washington, San Francisco.
Day's work. COST, $1000

FRAME GARAGE
(1772) N CABRILLO 74 W 12th Ave. One-story frame garage.
Owner.....M. Koenig, Care Architect.
Architect ...Koenig & Christiansen.
Contractor..Koenig & Cchristiansen, 914 Humboldt Bank Bldg., San Francisco.
COST, $500

FRAME DWELLING
(1773) E NINTH AVE 177-1½ N Lawton. Two-story and basement frame dwelling.
Owner.....Mrs. Minnie A. Hoffmann, 1629 9th Ave., S. F.
Architect ...None.
Contractor..C. A. Hall, 1318 5th Ave., San Francisco.
COST, $3000

ADDITIONS
(1774) NO. 2598 SAN JOSE AVE. Raise and add store to cottage.
Owner.....W. R. Meredith, 130 Diamond, San Francisco.
Architect ...None.
Contractor..E. F. Tomnitz, 22 Caine Ave., San Francisco.
COST, $1000

UNDERPIN APARTMENTS
(1775) NO. 28 CHATHAM PLACE. Underpin apartments.
Owner.....M. Rendle King, Pasadena, California.
Architect ...None.
Contractor..E. K. Pearson, 2372 Bryant San Francisco.
COST, $1500

FRAME RESIDENCE
(1776) E TWENTY-FIFTH AVE 175 S Geary. One-story and basement frame residence.
Owner.....F. Mitchell, 1749 Clement, San Francisco.
Architect ...E. J. Spence, 537 25th Ave San Francisco.
Contractor..Spence & Walthall, 537 25th Ave., San Francisco.
COST, $3000

FRAME DWELLING
(1777) E TWENTY-FOURTH AVE 50 N Anza. Two-story and basement frame dwelling.
Owner.....Jacob Weissbein, 582 Market, San Francisco.
Architect ...None.
Contractor..Ernest E. Dunn, 329 23rd Ave., San Francisco.
COST, $2895

FRAME FLATS
(1778) E TWENTY-FOURTH AVE 150 S California. Two-story and basement frame (2) flats.
Owner.....Chas. Mitchell, 324 24th Ave., San Francisco.
Architect ...None.
Contractor..J. A. Mullen, 2018 Parker, Berkeley.
COST, $4500

FRAME FACTORY
(1779) SE TOWNSEND & SEVENTH. One-story frame and corrugated iron factory.
Owner.....Pacific Hardware & Steel Co., Premises.
Architect ...John F. Powers, 460 Montgomery, San Francisco.
Contractor..John P. Cahill, 460 Montgomery, San Francisco.
COST, $2800

FRAME DWELLING
(1780) S CABRILLO 27-6 W 15th Ave. Two-story and basement frame dwlg.
Owner.....Frederick L. Schlimper.
Architect ...O. R. Thayer, 20 Montgomery, San Francisco.
Contractor..O. E. Jones, 613 Merchants Exchange Bldg., S. F.
COST, $2950

FRAME DWELLING
(1781) S TEDDY 250 W Elliott. One-story and basement frame dwelling.
Owner.....A. T. Williams, Arleta Ave. near Elliott, S. F.
Architect ...None.
Contractor..A. L. & J. E. Lundy, 8 Page, San Francisco.
COST, $1000

ALTERATIONS
(1782) N HAIGHT 55 E Steiner. Alter store.
Owner.....Laura W. Pockham, 1810 Fairview, Berkeley.
Architect ...None
Contractor..Jos. K. Firth, 305 First, San Francisco.
COST, $1000

PILE DRIVING
(1783) SW MONTGOMERY & FRANCISCO. Drive piling for future building (Reinforced concrete 6-story warehouse and factory).
Owner.....Zellerbach Co., SE Battery and Washington, S. F.
Architect ...None.
Contractor..Macdonald & Kahn, Rialto Bldg., San Francisco.
COST, $16,800

CLASS "C" APARTMENTS
(1784) N JACKSON 72-1 W Franklin W 60xN 127-8¼. Ornamental iron work for four-story and basement Class "C" apartments.
Owner.....Meyer Wood, Cr. S. N. Wood & Co., 4th & Market, San Francisco.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.
Contractor..Brode Iron Works, Inc., 31 Hawthorne, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Balconies and fire escapes set.$450.00
Completed and accepted 209.25
Usual 35 days..... 219.75
TOTAL COST, $879.00
Bond, $440. Sureties, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1785) STEAM AND HOT WATER heating system on above.
Contractor..Gilley-Schmid Co., Inc., 198 Otis, San Francisco.
Filed June 8, '15. Dated June 17, '16.
Steam pipes roughed in.....$440
Completed and accepted..... 700
Usual 35 days..... 380
TOTAL COST, $1520
Bond, $760. Surety, United State Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1786) FLOOR AND WALL TILING ON above.
Contractor..G. McElhinney Tile Co., 1319 Howard, San Francisco
Filed June 8, '16. Dated May 17, '16.
Completed and accepted.....$600
Usual 35 days..... 200
TOTAL COST, $800
Bond, $400. Surety, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1787) SHEET METAL WORK ON above.
Contractor..Morrison & Co., 769 McAllister, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Exterior cornices in place and bay windows and vent shafts covered $500
Completed and accepted..... 325
Usual 35 days..... 275
TOTAL COST, $1100
Bond, $550. Surety, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1788) ELECTRICAL WORK ON above.
Contractor..M. A. De Lew, 189 Stevenson, San Francisco.
Filed June 8, '16. Dated May 17, '16.
4th floor roughed in.....$300
3rd floor roughed in..... 300
2nd floor roughed in..... 300
1st floor roughed in..... 300
4th and 3rd floor finished..... 250
2nd and 1st floors finished..... 250
Completed and accepted..... 400
Usual 35 days..... 700
TOTAL COST, $2800
Bond, $1400. Surety, Massachusetts Bonding & Insurance Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1789) HARDWOOD FLOORING ON above.
Contractor..W. D. Creighton, 320 California, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Completed and accepted... ...$1215
Usual 35 days..... 405
TOTAL COST, $1620
Bond, $810. Surety, Massachusetts Bonding & Insurance Co. Limit, as required. Forfeit, none. Plans and specifications filed.

CLASS "C" APARTMENTS
(1790) N JACKSON 132-1 W Franklin W 60xN 127-8¼. Ornamental iron work for four-story and basement Class "C" brick apartments.
Owner.....Annie Peyser, 1458 Page, San Francisco.
Architect ...C. A. Meussdorffer, Humboldt Bank Bldg., S. F.

Contractor..Brode Iron Works, Inc., 31 Hawthorne, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Balconies and fire escapes set.$450.00
Completed and accepted 209.25
Usual 35 days..... 219.75
TOTAL COST, $879.00
Bond, $440. Sureties, United States Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1791) STEAM AND HOT WATER heating system on above.
Contractor..Gilley-Schmid Co., Inc., 198 Otis, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Steam pipes roughed in.....$440
Completed and accepted..... 700
Usual 35 days..... 380
TOTAL COST, $1520
Bond, $760. Surety, U. S. Fidelity & Guaranty Co. Limit, as fast as possible Forfeit, none. Plans and specifications filed.

(1792) FLOOR AND WALL TILING ON above.
Contractor..G. McElhinney Tile Co., 1319 Howard, San Francisco
Filed June 8, '16. Dated May 17, '16.
Completed and accepted.....$600
Usual 35 days..... 200
TOTAL COST, $800
Bond, $400. Surety, U. S. Fidelity & Guaranty Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1793) SHEET METAL WORK ON above.
Contractor..Morrison & Co., 769 McAllister, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Exterior cornices in place and bay windows and vent shafts covered $500
Completed and accepted..... 325
Usual 35 days..... 275
TOTAL COST, $1100
Bond, $550. Surety, U. S. Fidelity & Guaranty Co. Limit, without delay Forfeit, none. Plans and specifications filed.

(1794) ELECTRICAL WORK ON above.
Contractor..M. A. De Lew, 189 Stevenson, San Francisco.
Filed June 8, '16. Dated May 17, '16.
4th floor roughed in.....$300
3rd floor roughed in..... 300
2nd floor roughed in..... 300
1st floor roughed in..... 300
4th and 3rd floor finished..... 250
2nd and 1st floors finished..... 250
Completed and accepted..... 400
Usual 35 days..... 700
TOTAL COST, $2800
Bond, $1400. Surety, Massachusetts Bonding & Insurance Co. Limit, without delay. Forfeit, none. Plans and specifications filed.

(1795) HARDWOOD FLOORING ON above.
Contractor..W. D. Creighton, 320 California, San Francisco.
Filed June 8, '16. Dated May 17, '16.
Completed and accepted.....$1215
Usual 35 days..... 405
TOTAL COST, $1620
Bond, $810. Surety, Massachusetts Bonding & Insurance Co. Limit, as required. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1796) SE TWENTY-THIRD AVE AND Lake S 100xE 25. Sewering, rough and finish plumbing, gas piping and hot water heating for two-story and basement frame residence.
Owner.....Wallace R. and Dacia B. Reay, 1366 Broadway, S. F.
Architect ...Edw. G. Bolles, 660 Market, San Francisco.
Contractor..William F. Wilson Co., 330 Mason, San Francisco.
Filed June 8, '16. Dated June 3, '16.
Roughing in completed.....$387
Completed and accepted..... 390
Usual 35 days..... 260
TOTAL COST, $1037
Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1797) ELECTRIC SERVICE WIRING and telephone work on above.
Contractor..Kohlwey-Smith-Alfs Elec. Co., 237 Powell, S. F.
Filed June 8, '16. Dated June 3, '16.
Roughing in of wiring done.....$129
Completed and accepted..... 129
Usual 35 days..... 86
TOTAL COST, $344
Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1798) HOT WATER HEATING AND Ray oil burner plant on above.
Contractor..Scott Co., 243 Minna, S. F.
Filed June 8, '16. Dated June 3, '16.
Roughing in done.....$340
Completed and accepted..... 345
Usual 35 days..... 290
TOTAL COST, $975
Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

(1799) EXCAVATION, CONCRETE brick, roofing, mill, carpenter, sheet metal, lath, plaster, glass, glazing, marble, tile and hardware on above.
Contractor..Petterson & Persson, 62 Post, San Francisco.
Filed June 8, '16. Dated June 3, '16.
1st floor joists in place.....$1000
Roof rafters in place..... 1006
Interior plaster completed..... 1000
Completed and accepted..... 1062
Usual 35 days..... 1354
TOTAL COST, $5416
Bond, $2708. Sureties, H. C. Bennett & Ino E. Beck. Limit, 100 days. Forfeit, none. Plans and specifications filed.

CLASS "A" THEATRE
(1800) E MARKET AND FOURTH NE 100xSE 170. Cast iron and steel work for Class "A" theatre building.
Owner.....Market Street Realty Co. 1051 Mills Bldg., S. F.
Architect ...Cunningham & Politeo, 1st National Bank Bldg., S. F
Contractor ..C. S. Hoffman and L. W. Fliegner (as Golden Gate Iron Works), 1541 Howard, San Francisco.
Filed June 8, '16. Dated June 6, '16.
All steel imported shall be paid for upon arrival in San Francisco up to total of $55,000.....
Balance 75 % on 1st and 15th of each month .....
Usual 35 days.....$10,650
TOTAL COST, $85,650
Bond, $42,825. Surety, New Amsterdam Casualty Co. Limit, as required. Forfeit, $200. Plans and specifications filed.

FRAME FLATS
(1801) N LOMBARD 181-8 W Stockton 22-1x137-6. All work for three-story and basement frame (3) flats.
Owner.....Antonio Carrara, 1350 Gilman Ave., S. F. and Luigi Montani.
Architect ...Louis Mastropasqua, 580 Washington, S. F.
Contractor..Clementi Rosina, 673 Union San Francisco.
Filed June 8, '16. Dated June 6, '16.
Roof on $1487.50
1st coat plaster on..... 1487.50
Completed and accepted..... 1487.50
Usual 35 days..... 1487.50
TOTAL COST, $5950.00
Bond, $2975. Sureties, Jos. A. Fiorio and Mrs. Maria Bricca. Limit, 75 days. Forfeit, $3. Plans and specifications filed.

FRAME DWELLING
(1802) NO. 495 VERMONT. Add one-story to dwelling.
Owner.....Pasko Zalles, 607 Kansas, San Francisco.
Architect ...None.
Contractor..Jack Tantel, 607 Kansas, San Francisco.
COST, $500

ALTERATIONS
(1803) NO. 270 STATES. Raise dwelling, concrete foundation, etc.
Owner.....Lester Ball, Premises.
Architect ...None.
Day's work. COST, $450

CONCRETE OFFICE
(1804) S FOLSOM 150 W Fourth. One story reinforced concrete office.
Owner.....Judson Mfg. Co., Folsom nr Fourth, San Francisco.
Architect ...J. A. Ettler, 604 Mission, San Francisco.
Day's work. COST, $4000

FRAME RESIDENCE
(1805) NW BALBOA & FOURTEENTH Ave. Two-story, basement and attic frame residence.
Owner.....John C. Augsbury Esq., 62 Stanyan, San Francisco.
Architect ...Geo. W. Kelham, Sharon Bldg., San Francisco.
Contractor..Lindgren Co., Monadnock Bldg., San Francisco.
COST, $15,000

ALTERATIONS
(1806) NO. 3936 CLAY. Alter basement, concrete floor, etc.
Owner.....L. Levy, Premises.
Architect ...None.
Contractor..R. W. Moller, 736 Call Bldg San Francisco.
COST, $400

ALTERATIONS
(1807) NE POST AND STOCKTON. Lath and plaster partition.
Owner.....Pacific Union Club.
Architect ...Willis Polk, Hobart Bldg., San Francisco.
Contractor..W. D. Henderson, 491 Monadnock Bldg., S. F.
COST, $800

FRAME DWELLING
(1808) N HAVELOCK 105 E Oraga. One-story and basement frame dwlg.
Owner.....G. A. G. Ghiotto, 4534 Mission, San Francisco.
Architect ...None.
Day's work. COST, $1900

CONCRETE GARAGE
(1809) W FIFTH AVE 200 N Clement. One-story concrete garage.
Owner.....J. M. Shields, 263 5th Ave., San Francisco.

Architect ...None.
Contractor..C. C. Sayre, 541 26th Ave. San Francisco.
COST, $475

ALTERATIONS
(1810) E MASON 85 N Eddy. Erect partition, etc., for apartments.
Tenant.....W. T. Grimes, 124 Mason, San Francisco.
Architect ...N. R. Coulter, 46 Kearny, San Francisco.
Day's work. COST, $850

ELECTRIC SIGN
(1811) NOS 1535-37 POLK. Electric sign.
Owner.....Royal Theatre Co., Prem.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $500

ELECTRIC SIGN
(1812) NO. 1634 CALIFORNIA. Electric sign.
Owner .....Royal Theatre Co., Prem.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $500

SIDE WALKS
(1813) NO. 770 COLUMBUS. New side walks, piers, etc.
Owner.....J. F. Olivia, Premises.
Architect ...None.
Contractor..G. B. Delucchi, 2 Sharp Pl., San Francisco.
COST, $500

FRAME FLATS
(1814) S LAKE 95 W Ninth Ave W 25 xS 100. All work for two-story and basement and garage frame flats.
Owner.....Ella F. and Katherine A. Hallahan.
Architect ...A. Klahn & Son.
Contractor..A. Klahn & Son, 27 Chenery, San Francisco.
Filed June 9, '16. Dated June 8, '16.
Frame up $1175
Brown coated 1175
White coated 1175
Completed and accepted..... 1175
Usual 35 days..... 1570
TOTAL COST, $6270
Bond, none. Limit, 120 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(1815) E TWELFTH AVE 275 N Fulton N 25xE 120. All work for two-story and basement frame flats.
Owner.....Caleb S. Trimble, Hotel Clark, San Francisco.
Architect ...None.
Contractor..Chas. Schwarz, 4617 California, San Francisco.
Filed June 9, '16. Dated June 2, '16.
Frame up $1660
Enclosed and brown coated.... 1660
Completed 1660
Usual 35 days..... 1660
TOTAL COST, $6640
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

LEASES.

SAN FRANCISCO COUNTY.

June 8, 1916—NO. 2859 TWENTY-Fourth. Chas H Dolan to Jas G Mangelli. 5 years. $1032.
June 9, 1916—NO. 816 MISSION. E C and Oscar M Hneter to Bass-Hneter Paint Co. 5 years. $500 per month.
June 3, 1916—NOS. 43, 45, 47 O'FARrell S line bet. Stockton and Grant Ave. Phelan Imp Co to James Papina. 5 years. $17,400.
June 5, 1916—NO. 570 WALLER. 5 years. $1200; No. 568 Waller 4 years 5½ months. $172.50. Elizabeth Stolz to Harry S Bell.
June 5, 1916—S LOMBARD 88 E Octavia 16x31-3. Chas H Mohaupt to Sabatino Paris. 12 years. $1440. (Re-recorded)
June 5, 1916—W TENTH AVE 100 N Anza N 25xW 120. John Johnson, David Olsen and Oscar W Thunberg to Peter Williams. 1 year. $45 with option to renew.
June 6, 1916—NO. 1666 MARKET, N line bet. Rose Ave and Haight. Bruce Cornwall to Louis R Goldberg. 5 years. $3960.
June 6, 1916—S SUTTER bet. Gough & Octavia; Nos. 1521 Sutter and 1519 Sutter. Adele M White to Minnie Blair. 1 years. $1200.

NOTICE OF NON-LIABILITY.

SAN FRANCISCO COUNTY.

June 9, 1916—LOT 11 BLK "G" Mission Street Land Co. Homestead Realty Co as to improvements on leased property .....
June 7, 1916—S SACRAMENTO 82-6 W Polk W 72-6xS 127-8¼. William Ede Co as to improvements on leased property .....

CESSATION OF LABOR.

June 8, 1916—N SACRAMENTO 119,2 W Taylor N 120xW 27-6. Henry Cailleand Jr with Henry Conrad. Work ceased .....June 1, 1916
June 8, 1916—S EIGHTEENTH 54-10 E Oakwood E 27xS 101. Elizabeth A Kelly with Segurson Bros. Work ceased.....May 1, 1916
June 8, 1916—N SACRAMENTO 119-2 W Taylor, W 27-6xN 120. Joseph Bacciocco to Henry Conrad. Work ceased April 28, 1916.

STEEL CONTRACT LET.

Architects Cunningham & Politeo have awarded to the Golden Gate Structural Iron Works the contract for the steel work for the new theatre building to be erected on Fourth and Market streets.

COMPLETION NOTICES.

San Francisco

June 1, 1916—NE TWENTY-THIRD & Louisiana. Western Sugar Refining Co (Co-partnership of John D and A B Spreckels) to Lindgren Co... .....May 26, 1916
June 1, 1916—W PARKER AVE 381 N Geary — 25 W 120 S 25 E 120. Johnson & Johnson to whom it may concern.....May 31, 1916
June 1, 1916—NO. 1231 MARKET, S line bet. 8th and 9th. James Otis Trustee to H L Petersen.May 24, 1916
June 2, 1916—E TWENTY-FIRST AV 150 S Anza S 25xE 120. George Gallagher to whom it may concern .....June 2, 1916
June 3, 1916—NE TWENTIETH AVE and Anza 25x57-6; E 20th Ave 25 N Anza 25x57-6; E 20th Ave 50 N Anza 25x57-6; E 20th Ave 75 N Anza 25x57-6. Lloyd B Ham to whom it may concern June 3, 1916
June 3, 1916—N TWENTY-SECOND 27 W De Haro W 25xN 100. Alex Lochutoff to whom it may concern.....June 1, 1916
June 5, 1916—SE CLAY & WEBSTER The Board of Trustees of the Leland Stanford Jr University to H S Tittle, June 2, 1916 Hunt-Mirk Co .....June 2, 1916
June 5, 1916—N BRAZIL AVE 50 W Edinburg W 25xN 100. Gaetano Ciampa to L Dioguardi...June 2, 1916
June 5, 1916—W SIXTEENTH AVE 150 S Anza S 25xW 120. Alfred Johnson to whom it may concern.. .....June 5, 1916
June 5, 1916—LOT 47 BLK 3 Academy Tract being S Harrington 300 W Mission. H Woodford to Henry Schulte.....June 5, 1916
June 5, 1916—W 45.546 FEET OF LOT 19 Blk 2818 Forest Hill Court. Conservative Bldg & Invst Co (Wm H Kiler) to whom it may concern... .....June 1, 1916
June 6, 1916—NW DOUGLAS AND Elizabeth N 26-6xW 100. Abraham and Clara Lenn to H W Nielsen... .....June 3, 1916
June 6, 1916—NE KIRKWOOD AVE, 200 SE Phelps, SE 25xNE 100. G. Firpo to Paul De Martini..... .....June 3, 1916
June 6, 1916—W EIGHTH AVE, 225 N Lawton, N 28xW 120. Emma L C. Reese to whom it may concern .....June 5, 1916
June 6, 1916—SW FOLSOM and 26th, W 170 S 150-1¼ m or 1 S 86 degrees 35 minutes E 175 more or less N 173. I. W. Kerr, John H. Sammi, George W. Reed, R. V. Lucy, H. Van Luven and H. T. Harper, as Board of Trustees of Cogswell Polytechnical College to Lange & Bergstrom....May 30, 1916
June 6, 1916—S LAWTON, 70 W 11th avenue, W 25xS100. Lucy O'Brien to whom it may concern.May 27, 1916
June 6, 1916—W FORTY-FIFTH avenue 200 N Cabrillo, N 25xW 120. W Clarence or W. C. McCollom to A. W. MacKillop.June 6, 1916
June 7, 1916—E EIGHTEENTH AVE 55 N Judah N 27-6xE 82-6. Leigh & Schultz to whom it may concern .....June 7, 1916
June 7, 1916—E EIGHTEENTH AVE 82-6 N Judah N 27-6xE 82-6. Leigh & Schultz to whom it may concern .....June 7, 1916
June 7, 1916—SE RINCON PLACE (Ellery) and Bryant E 25xS 90. American Marine Paint Co to Nelson & Bauer.....June 5, 1916
June 7, 1916—E EIGHTEENTH AVE 27-6 N Judah N 27-6xE 82-6. Leigh & Schultz to whom it may concern .....June 7, 1916
June 7, 1916—NW GEARY & MASON Saint Francis Realty Co to Robert Trost.....June 3, 1916
June 8, 1916—W LIPPARD AVE 175 S Bosworth 25x100. Valentine Battini to Louis N Devincenzi.June 5, '16
June 8, 1916—W TWENTY-FOURTH Ave 340-4 N Balboa N 25xW 120. William Klute to T E Mohler.... .....June 7, 1916
June 8, 1916—E CAPP 290 N 16th E 120x30. Thos J and Mary Kearney to Conlan Bros.....June 1, 1916
June 8, 1916—E POWELL, bet. Washington and Jackson. B G McDougall for Arthur Arlett to whom it may concern.....May 31, 1916

June 8, 1916—W FORTY-FIFTH AVE 225 N Irving N 25xW 120. Theo F Moeller to Peter M Leonard.....June 8, 1916

June 8, 1916—W JONES 77-6 S Bush 30x77-6. Frederick F Heine to whom it may concern..Completed —

June 9, 1916—SE TWELFTH AVE & Anza 25x100. Alfred T Morris to whom it may concern....June 7, 1916

June 9, 1916—NE EIGHTEENTH AVE and Noriega N 100xE 32-6. Mrs Julie Depierre to Hofmeister & Berdahl.....May 25, 1916

June 9, 1916—W MISSION 160 S 22nd — 125 S parallel with W Mission 40 E 125 N 40. Marion Leventritt to Ward & Goodwin.....June 7, 1916

June 9, 1916—SE CUMBERLAND & Dolores S 89 E 105 S 25 E 25 N 114 W 130. Second Church of Christ Scientist to Central Iron Works...June 5, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

June 2, 1916—SE ATHENS 125 SW Excelsior Ave SW 25xSE 100. J H Kruse vs Gustaf Erickson....$448.53

June 2, 1916—NE BUSH & FRANKlin E 49xN 70. Brown & Tucker vs Joseph and Sam Herman, Minnie Loewensor and Dorothy Loewenson and Fink & Schindler.....$20

June 2, 1916—NW CLAY & SPRUCE N 100xW 37-6. C Bloom vs S M Everding and Robert McLelland..$33

June 2, 1916—W RUSS & FOLSOM SW 50xNW 100. John McInerney vs Henry C Hincken and O E Evans & Co $14

June 3, 1916—W TWENTY-7TH Ave 125 S Geary S 70xW 120. Geo H Tay Co vs. Joseph Deasy, Hofmeister & Berdahl and Ben Schloss $169.70

June 3, 1916—W TWENTY-7th Ave 125 S Geary S 70xW 120. Thos Leonard and J E Davenport (as Leonard Lumber Co), $831.88; Terranova Bros, $200 vs Ben Schloss and Hofmeister & Berdahl .....

June 3, 1916—S SCENIC WAY 70.12 W 25th Ave W 80.04 S 41.86 E 80.04 N 41.19. The Fernald Co, $58.11; Atlas Mortar Co, $67.20; Richard Lynch, $139.77 vs J H Daly and J W and Florence Proctor.....

June 6, 1916—NE EXCELSIOR AVE, 50 SE Madrid, SE 25xNE 100. Henry Ernst & Sons vs. Mrs. C. A. Ware and Jas. H. Hardy, Inc.....$55.90

June 6, 1916—N SACRAMENTO 146-8 W Taylor N 120xW 27-6. Veyhle & Collins vs Jos Bacciocco and Henry Conrad $3300

June 6, 1916—N SACRAMENTO 119-2 W Taylor N 120xW 27-6. Veyhle & Collins vs Henry Cailleud Jr and Henry Conrad.....$1300

June 8, 1916—N MARSTON AVE 325 W Edna W 50xN 112-6. Edward Burke vs William T Hunter...$132.50

June 8, 1916—E SHOTWELL 95 S 21st S 30xE 122-6. J B Bourdieu vs A Chazel, C J Mills and G Cavaglieri $196

June 9, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. John Fay, $890 and C Sartorio, $838.60 vs Henry Conrad & Joseph Bacciocco

June 9, 1916—N SACRAMENTO 119-2 W Taylor W 27-6xN 120. John Fay vs Henry Cailleud Jr and Henry Conrad $265

June 9, 1916—W COLLINS 315 N Geary N 25xW 123-0½. William P Goss vs Olive J Bandy and Wm F Yates $250

June 9, 1916—S GOLDEN GATE AVE and NW Market W 152.6 S 53.9½ SE 46 53-400 NE 154.5½. Julius E Back vs City Investment Co and Nick Simos $40

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1363	Rutherford	Greuner	10000
1361	Same	Same	10000
1365	Same	Same	10000
1366	Kellogg	Kellogg	1500
1367	Hollis	Lewis	5080
1368	Mills	Farquharson	11212
1369	Sisson	Kringlen	3500
1370	Syndicate Invst	Owner	1600
1371	Same	Same	1600
1372	Thorpe	Thorpe	400
1373	Rulfs	Boeddeker	450
1374	MacGregor	MacGregor	3500
1375	Same	Same	3500
1377	MacGregor	MacGregor	3500
1378	Anderson	Anderson	2150
1379	Dippo	Jesperson	1950
1380	Perry	Perry	500
1381	Murphy	Wittiers	1000
1382	Linden	Danielson	1000
1383	Ragusa	Ragusa	400
1384	Meth Church	Rowe	1800
1385	Sherfey	Rankin	2900
1392	Horswill	Rogers	9805
1403	Chevrolet	Wood	10000
1405	Wilson	Stolte	2300
1406	Woodward	Woodward	10000
1407	Moore	Moore	1500
1408	Volkman	Pearson	15580
1409	Am Coin	Jones	2275
1410	Booth	Eber	2250
1411	Prentiss	Prentiss	1000
1412	Carter	Thurshy	2000
1414	Wilson	Holton	400
1416	Devine	Brooks	900
1417	Warner	Warner	1800
1418	Larsen	Larsen	2000
1419	Hart	Pfrang	3000
1420	Viera	Pfrang	2500
1421	Lehman	Lehman	2500
1422	Isakson	Isakson	1600
1423	Baxter	Baxter	2400
1424	Banning	Stewart	5000
1425	Archbishop	MacIntyre	15000
1430	Horswill	Rogers	770
1431	Lloyd	Lloyd	1500
1432	Mulroony	Mulroony	2200
1433	Taylor	Taylor	1600
1434	Same	Same	1600
1435	Same	Same	1600
1436	Same	Same	1600
1437	Doak	Stone	1932

APARTMENTS

(1363) W GRAND AVE 154 S Perry, Oakland. Two-story 24-room apartments.
Owner.....V. Z. Rutherford, Thomson Bldg., Oakland.
Architect ...None.
Contractor..W. M. G. Greuner, Thomson Bldg., Oakland.
COST, $10,000

APARTMENTS

(1364) W GRAND AVE, 204 S Perry, Oakland. Two-story 24-room apartments.
Owner.....V. Z. Rutherford, Thomson Bldg., Oakland.
Architect ...None.
Contractor..W. M. G. Greuner, Thomson Bldg., Oakland.
COST, $10,000

APARTMENTS

(1365) W PERKINS, 65 N Van Buren, Oakland. Two-story 24-room apartments.
Owner.....V. Z. Rutherford, Thomson Bldg., Oakland.
Architect ...None.
Contractor..W. M. G. Greuner, Thomson Bldg., Oakland.
COST, $10,000

DWELLING

(1366) N REDDING, 138 W High, Oakland. One-story, 7 room dwlg.
Owner.....I. A. Kellogg, 3404 Champion, Oakland.
Architect....None.
Day's work. COST, $1800

(1367) E LOMA AVE, 200 N Buena Vista Way, being ptn lot 27, La Loma Park, Berkeley. Two-story and basement frame dwelling.
Owner.....Caroline White Hollis, 2829 Fulton, Berkeley.
Architect....W. H. Ratcliff, Jr., First National Bank Bldg., Bkly.
Contractor..Leland S. Lewis, 955 Ventura avenue, Berkeley.
Filed June 3, '16. Dated May 29, '16.
Frame up and roof hoarded..... ¼
Plastered ..... ¼
Completed and accepted..... ¼
Usual 35 days ..... ¼
TOTAL COST, $5080
Bond, $2540. Sureties, Hartford Accident and Indemnity Co. Forfeit, none. Limit, 80 days. Plans and specifications filed.

GYMNASIUM

(1368) GROUNDS OF MILLS COLlege, Oakland. One-story frame gymnasium.
Owner.....Mills Alumnae Association
Architect....Julia Morgan, Merchants Exchange Bldg., S. F.
Contractor..D. B. Farquharson, 1760 Ellis, San Francisco.
Filed June 3, '16. Dated May 31, '16.
Third of each month 75%
Usual 35 days 25%
TOTAL COST, $11,21[illegible]
Bond, Sureties, Forfeit, none. Limit 90 days after June 1. Plans and specifications filed.

DWELLING

(1369) S 110, LOT 20, BLK A, Grand Avenue Heights (by the parks), Oakland. Six-room dwelling.
Owner.....George A. and Bertha S Sisson, 868 44th St., Okd
Architect....None.
Contractor..John Kringlen, 3201 13th avenue, Oakland.
Filed June 3, '16. Dated June 1, '16.
Frame up, chimney up and rough plumbing in ..... ¼
Plastered ..... ¼
Completed and accepted ..... ¼
Usual 35 days ..... ¼
TOTAL COST, $350[illegible]
Bond, $1750. Sureties, Harry S. Anderson. Forfeit, none. Limit, 90 days. No plans or specifications.

DWELLING

(1370) E EIGHTY-SIXTH AVE 85 N Holly, Oakland. One-story 4-room dwelling.
Owner.....Syndicate Investment Co. 1520 Broadway, Oakland.
Architect ...None.
Day's work. COST, $160[illegible]

DWELLING

(1371) E EIGHTY-SIXTH AVE 165 N Holly, Oakland. One-story 4-room dwelling
Owner.....Syndicate Investment Co. 1520 Broadway, Oakland.
Architect ...None.
Day's work. COST, $160[illegible]

DDITION
372) NO. 2446 TWENTY-FOURTH, Oakland. Addition.
wner.....A. Thorpe, Premises.
chitect ...None.
y's work. COST, $400

LTERATIONS
373) NO. 2515 FRUITVALE AVE., Oakland. Alterations.
wner.....J. L. Rulfs, Premises.
chitect ...None.
ntractor..Joe Boeddeker, 1814 34th Ave., Oakland.
COST, $450

VELLING
374) N WELLINGTON AVE 110 E Evans, Oakland. Two-story 8-room dwelling.
wner.....C. M. MacGregor, 470 13th, Oakland.
chitect ...None.
ay's work. COST, $3500

VELLING
375) NE EVERETT AVE & WELLington, Oakland. Two-story 8-room dwelling.
wner.....C. M. MacGregor, 470 13th, Oakland.
rchitect ...None.
ay's work. COST, $3500

VELLING
377) S WELLINGTON AVE 80 E Evans, Oakland. Two-story 8-room dwelling.
wner.....C. M. MacGregor, 470 13th, Oakland.
rchitect ...None.
ay's work. COST, $3500

VELLING
378) W RITCHIE 500 S Hillside, Oakland One-story 5-room dwelling
wner.....W. A. Anderson, 1174 Auseon, Oakland.
rchitect ...None.
ay's work. COST, $2150

VELLING
379) S THIRTY-NINTH 136 W Market, Oakland. One-story 6-room dwlg
wner.....Jesperson & Dippo, 980 38th, Oakland.
rchitect ...None.
ay's work. COST, $1950

WELLING
380) S WALNUT 125 E Jones Ave. Oakland. One-story 4-room dwelling
wner.....Joe Perry, Premises.
rchitect ...None.
ay's work. COST, $500

DWELLING
(1381) N BONA 175 W Peralta Ave. Oakland. One-story 4-room dwelling
Owner.....J. J. Murphy, Oakland.
Architect .. None.
Contractor..Arthur Wittier, 2837 Atwell Ave., Oakland.
COSH, $1000

DWELLING
(1382) E RUBY 140 S 40th (rear), Oakland. One-story 4-room dwelling.
Owner.....Bina P Linden and Hilda Anderson, Oakland.
Architect ...None.
Contractor..E. E. Danielson, 3896 Ruby Oakland.
COST, $1000

ADDITION
(1383) NO. 969 SEVENTH, Oakland Addition.
Owner.....C. Ragusa, 2319 Mason, San Francisco.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1384) NO. 5615 SAN PABLO AVE., Oakland. Alterations and additions.
Owner.....Methodist Church Board. Premises.
Architect ...None.
Contractor..A. N. Rowe, 5109 Manila Ave., Oakland.
COST, $1800

DWELLING
(1385) S SIXTIETH 200 W Claremont Ave., Oakland. Two-story 7-room dwelling.
Owner.....S. P. Sherfey.
Architect ...None.
Contractor..J. L. Rankin, 6082 Claremont Ave., Oakland.
COST, $2900

(1392) N SIXTEENTH ST, 50 E Chestnut St, E 80xN 120, Oakland. All work for seven one-story dwellings and move one old house.
Owner.....F. J. and Mary A. Horswill, 1084 16th street, Oakland.
Loaner.....G. W. Rumble, Berkeley.
Contractor..Joseph F. Rogers, 1734 Grove, Oakland.
Filed June 6, '16. Dated June 5, '16. Each Saturday night, what contractor has paid out to $8500
Usual 35 days $1305
TOTAL COST, $9805
Bond, Sureties, Forfeit, none. Limit, 120 days. Plans and specifications filed.

CONCRETE BOILER HOUSE
(1404) COR. FOOTHILL BLVD AND Hillside, Oakland. One-story reinforced concrete boiler house.
Owner.....Chevrolet Motor Co. of California, Cor. Van Ness Ave and California, S. F.
Architect ...None.
Contractor..W. E. Wood, Detroit, Mich
COST, $10,000

DWELLING
(1405) N FLEMING AVE 350 W Seminary, Oakland. Two-story 7-room dwelling
Owner.....Eva M. Wilson, 3149 Laguna Ave., Oakland.
Architect ...None.
Contractor..F. C. Stolte, 3449 Laguna Ave., Oakland.
COST, $2300

DWELLING
(1406) N CLARENDON CRESCENT 350 E Mandana, Oakland. One-story 4-room dwelling.
Owner.....Mrs. Elvira M. Woodward. 827 14th, Oakland.
Architect ...E. W. Cannon, Central Bk. Bldg., Oakland.
Day's work. COST, $10,000

DWELLING
(1407) N BECK 231 W 73rd Ave., Oakland. One-story 5-room dwelling.
Owner.....G. H. Moore, 110 Jessie San Francisco.
Architect ...None.
Day's work. COST, $1500

FRAME RESIDENCE
(1408) MUIR AVE, Lot 14, Crocker Terrace, Piedmont. Two-story frame residence.
Owner.....Wm. G. Volkman, 401 Lee, Oakland.
Architect ...Milwain Bros., Albany Bldg., Oakland.
Contractor..Ben Pearson, 2403 Grant, Berkeley.
COST, $15,580

FRAME FACTORY
(1409) NO. 4065 HOLLIS, being W Hollis 225 S Park Ave S 35 W 266 N 60 E 137 S 25 E 133, Emeryville. All work for one and two-story frame factory.
Owner.....American Coin Register Co., 1706 Broadway, Okd.
Architect ...None.
Contractor..W. H. & S. W. Jones (Jones Bros.), 5829 Lawton Ave., Oakland.
Filed June 7, '16. Dated ——
Frame and roof completed..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
55 days after..... ¼
TOTAL COST, $2275
Bond, $1137.50. Sureties, Emeryville Hardware & Tool Co. and Mrs Mary Jones and Wm. Jones. Limit, 15 days Forfeit, $5. Plans and specifications filed.

BRICK GARAGE
(1410) E TELEGRAPH AVE 70 from N line 36th E 110xN 55, Oakland. Brick work for one-story brick garage.
Owner.....Chas. S. Booth, 580 2nd. Oakland.
Architect ...Thomas & Oliver, Pantages Bldg., Oakland.
Contractor..J. W. Eber, 852 32nd, Okd.
Filed June 7, '16. Dated June 6, '16.
Brick work completed $1125.00
15 days 562.50

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25 days after..... 562.50
TOTAL COST, $2250.00
Bond, $1125. Surety, Casualty Co. of America. Limit, 20 days. Forfeit, none. Plans and specifications filed.

BUILDING
(1411) W ADAMS 200 S Marin, Albany. Erect building.
Owner.....T. Prentiss, 2357 Foothill Blvd, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(1412) SE NIELSON AND SONOMA Ave., Albany. One-story 6-room dwlg
Owner.....H. B. Carter, 1526 1st Ave., Oakland.
Architect ...None.
Contractor..H. G. Thursby, 1526 1st Ave., Oakland.
COST, $2000

ALTERATIONS
(1414) NO. 2123 TWENTY-FIFTH Ave., Oakland. Alterations.
Owner.....A. Wilson, Care Balfour Guthrie Co., 350 California, San Francisco.
Architect ...None.
Contractor..F. A. Holton, 2779 E-22nd, Oakland. COST, $400

DWELLING
(1416) W MAPLE AVE 175 S Madeline Oakland. One-story 3-room dwlg.
Owner.....Patrick B. Devine, 3711 Maple Ave., Oakland.
Architect ...None.
Contractor..W. R. Brooks, 2900 Madeline, Oakland.
COST, $900

DWELLING
(1417) W FAIRFAX AVE 80 N Princeton Ave., Oakland. One-story five-room dwelling.
Owner.....S. A. Warner, 5394 Princeton Ave., Oakland.
Architect ...None.
Day's work. COST, $1800

DWELLING
(1418) W TWENTY-SEVENTH AVE 306 N E-14th, Oakland. One-story 5-room dwelling.
Owner.....R. K. Larsen, 1221 30th Ave., Oakland.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1419) W BENVENUE 100 N Alcatraz, Oakland. One-story 7-room dwlg.
Owner.....Mary Hart.
Architect ...None.
Contractor..C. J. Pfrang, 5187 Claremont Ave., Oakland.
COST, $3000

DWELLING
(1420) SW HOPKINS & SHEFFIELD, Oakland. One-story 5-room dwlg.
Owner.....Louise Viera.
Architect ...None.
Contractor..C. J. Pfrang, 5487 Claremont Ave., Oakland.
COST, $2500

DWELLING
(1421) E PARK BLVD. 200 N El Centro, Oakland. One and one-half-story 6-room dwelling.
Owner.....J. Lehman, 959 Apgar, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(1422) E PATTERSON 190 N Hopkins, Oakland. One-story 5-room dwlg.
Owner.....S. A. Isakson, 1464 55th Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

DWELLING
(1423) S HOPKINS 50 E Sheffield, Oakland. One-story 6-room dwelling.
Owner.....F. L. Baxter, 2411 Hopkins Oakland.
Architect ...None.
Day's work. COST, $2400

DWELLING
(1424) S ROCKRIDGE BLVD 360 E Broadway, Oakland. Two-story 8-room dwelling.
Owner.....Banning & Stewart, 5215 Broadway, Oakland.
Architect ...None.
Day's work. COST, $5000

BRICK DWELLING
(1425) N HOBART 200 E Grove, Oakland. Three-story brick veneer dwlg.
Owner.....Roman Catholic Archbishop of S. F., 110 Franklin, San Francisco.
Architect ...Shea & Lofquist, Bankers Invst. Bldg., S. F.
Contractor..P. G. MacIntyre, 535 34th, Oakland.
COST, $15,000

ALTERATIONS
(1430) NO. 1084 SIXTEENTH, Oakland Alterations.
Owner.....F. J. Horswill, Premises.
Architect ...None.
Contractor..J. F. Rogers, 2011 Franklin, Oakland.
COST, $770

DWELLING
(1431) N SIXTIETH AVE 100 S Eastlawn, Oakland. One-story 5-room dwelling.
Owner.....W. S. Lloyd, 3720 Boulevard, Oakland.
Architect ...None.
Day's work. COST, $1500

DWELLING
(1432) S DELAWARE 350 E Peralta Oakland. One-story 5-room dwlg.
Owner.....J. R. Mulroony, 3500 Peralta Ave., Oakland.
Architect ...None.
Day's work. COST, $2200

DWELLING
(1433) S STOWE AVE 200 W Newton, Oakland. One-story 5-room dwelling.
Owner.....G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $1600

DWELLING
(1434) S STOWE AVE 480 W Newton, Oakland. One-story 5-room dwelling.
Owner..... G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $1600

(1435) S STOWE AVE 556 W Newton, Oakland. One-story 5-room dwelling.
Owner.....G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $1600

DWELLING
(1436) S STOWE AVE 520 W Newton, Oakland. One-story 5-room dwelling.
Owner.....G. Taylor, 96 Pearl, Okd.
Architect ...None.
Day's work. COST, $1600

WAREHOUSE
(1437) SW FOURTH AND MADISON, Oakland. Add to warehouse.
Owner.....Doak Gas Engine Co., Premises.
Architect ...None.
Contractor..E. P. Stone, 1212 Carrison, Berkeley.
COST, $1932

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1376	Olenius	Kuivala	400
1386	Larmer	Larmer	2000
1387	Fisher	Klyce	3500
1388	McCullough	Larmer	2500
1389	Patterson	Kidder	1000
1390	Alpha Kappa	Riddell	16000
1391	McNaughton	Mason	1500
1413	Clark	Brown	800
1415	Allison	Allison	1000
1426	Leuschner	Kidder	1500
1427	Welcker	Morse	1200
1428	1st Nat'l Bk.	Kidder	15000
1429	Patrick	Patrick	2500

DWELLING
(1376) S HASKELL 150 E Mable, Berkeley. One-story 3-room dwelling.
Owner.....Mrs. Hannah Olenius, 1312 Haskell, Berkeley.
Architect ...None.
Contractor..John A. Kuivala, 1207 Dartmouth, Berkeley.
COST, $400

DWELLING
(1386) S DERBY 37½ E Ellsworth, Berkeley. One-story 5-room dwlg.
Owner.....Edw. Larmer, 631 Poirier, Oakland.
Architect ...None.
Day's work. COST, $2000

FINISH DWELLING
(1387) NO. 2624 VIRGINIA, Berkeley. Finish basement of dwelling.
Owner.....Evelyn W. Fisher, Prem.
Architect ...None.
Contractor..H. A. Klyce, Sheldon Bldg., San Francisco.
COST, $350

STORES
(1388) E COLLEGE 124 S Russell, Berkeley. One-story 3-room stores.
Owner.....D. McCullough, Berkeley.
Architect ...None.
Contractor..Edw. Larmer, 631 Poirier Oakland.
COST, $250

ADDITION
(1389) NOS. 2804-06 COLLEGE AVE. Berkeley. Addition.
Owner.....Miss Patterson, Premises.
Architect ...None.
Contractor—Kidder & McCullough, 2075 Addison, Berkeley.
COST, $1000

CLUB HOUSE
(1390) LA LOMA AND HEART AVE. Berkeley. Two and one-half-story 19-room club house.
Owner.....Alpha Kappa Lambda Fraternity, 2428 College Ave. Berkeley.

Architect ...Kimball & Sprague, Ames Iowa.
Contractor..Riddell Bldg. Service Corporation, 2247 Telegraph Ave., Berkeley.
COST, $16,000

DWELLING
(1391) S DELAWARE 70 E Acton, Berkeley. One-story 5-room dwelling.
Owner.....W. H. McNaughton, 2328 Fulton, Berkeley.
Architect ...None.
Contractor..Mason-McDuffie Co., Shattuck and Addison, Bkly.
COST, $1500

ALTERATIONS
(1413) NO. 2435 LE CONTE, Berkeley. Alterations and additions.
Owner.....M. B. Clark, Premises.
Architect ...G. F. Kincaid, S. F.
Contractor..E. A. Brown, 1604 Shattuck Ave., Berkeley.
COST, $800

DWELLING
(1415) S PARKER 200 E Mable, Berkeley. One-story 4-room dwelling.
Owner.....C. H. Allison, 34 Brookside, Berkeley.
Architect ...None.
Contractor..H. Allison, 2641 Mathews, Berkeley. COST, $1000

FURNACE
(1426) NO. 1816 SCENIC AVE., Berkeley. Install furnace and build garage.
Owner.....Dr. A. O. Leuschner, Prem.
Architect ...Warren C. Perry, 604 Mission, San Francisco.
Contractor..Kidder & McCullough, 2075 Addison, Berkeley.
COST. $1500

REPAIRS
(1427) E OXFORD 900 N Rose, Berkeley. Repairs.
Owner.....Mrs. Eliza Welcker, The Cedar, Oxford St., Bkly.
Architect ...None.
Contractor..T. O. Morse, 1398 Scenic Ave., Berkeley.
COST, $1200

MARBLE WAINSCOT, ETC.
(1428) SHATTUCK AND CENTER, Berkeley. Marble wainscot, oak finish, hot water system and modernize gas fixtures and plumbing.
Owner.....First National Bank of Berkeley, Premises.
Architect ...None
Contractor..Kidder & McCullough 2075 Addison, Berkeley.
COST, $15,000

DWELLING
(1429) S SONOMA AVE 150 E Colusa Ave., Berkeley. Two-story 6-room dwelling.
Owner.....Wm. Patrick, 1429 Channing Way, Berkeley.
Architect ...None.
Contractor..O. M. & H. G. Patrick, 1028 Nielson, Berkeley.
COST, $2500

Building Contracts Awarded

Alameda

1393	Cole	Adams	3000
1394	Same	Same	3000
1395	Same	Same	3000
1396	Potter	Schnebly	650
1397	Fey	Fey	400
1398	Haslett	Strang	450
1399	Wakefield	Martel	400
1400	Noble	Noble	2000
1401	Sloan	Garretson	2500
1402	Same	Same	3000
1403	Same	Same	2500

DWELLING
(1393) NO. 3220 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

DWELLING
(1394) NO. 3204 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

DWELLING
(1395) NO. 3238 FAIRVIEW AVE., Alameda. Two-story 7-room dwelling.
Owner.....M. T. Cole, 3200 Fernside Blvd., Alameda.
Architect ...None.
Contractor..C. C. Adams, 3200 Fernside Blvd., Alameda.
COST, $3000

REPAIRS
(1396) NO. 1118 SAN ANTONIO AVE., Alameda. Repairs.
Owner.....Mrs. T. B. Potter.
Architect ...None.
Contractor..Schnebly, Hostrawser & Pedgrift, 6th & Jackson, Oakland. COST, $650

AMUSEMENT CONCESSION
(1397) SURF BEACH PARK, Alameda Amusement concession.
Owner.....Chas. Fey & Co., 585 Mission, San Francisco.
Architect ...None.
Day's work. COST, $400

GARAGE
(1398) NO. 1603 CLINTON AVE., Alameda. Garage.
Owner.....S. M. Haslett, 1605 Clinton Ave., Alameda.
Architect ...None.
Contractor..F. N. Strang, 805 Pacific Ave., Alameda.
COST, $450

ALTERATIONS
(1399) NO. 476 CENTRAL AVE., Alameda. Alterations.
Owner.....C. A. Wakefield, Camp Wakefield.
Architect ...None.
Contractor..Geo. Martel, 16 Davis, S. F.
COST, $400

DWELLNIG
(1400) NO. 1311 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....Geo. Noble, 2220 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

DWELLING
(1401) EAGLE AVE near Willow, Alameda. One-story 5-room dwlg.
Owner.....J. R. Sloan, 2060 Eagle Ave., Alameda.
Architect ...Chester H. Miller, First Trust Bldg., Alameda.
Contractor..John D. Garretson, Thomson Bldg., Oakland.
COST, $2500

DWELLING
(1402) EAGLE AVE near Willow, Alameda. One-story 7-room dwlg.
Owner.....J. R. Sloan, 2060 Eagle Ave., Alameda.
Architect ...Chester H. Miller, First Trust Bldg., Alameda.
Contractor..John D. Garretson, Thomson Bldg., Oakland.
COST, $3000

DWELLING
(1403) EAGLE AVE. near Willow, Alameda. One-story 5-room dwlg.
Owner.....J. R. Sloan, 2060 Eagle Ave., Alameda.
Architect ...Chester H. Miller, First Trust Bldg., Alameda.
Contractor..John D. Garretson, Thomson Bldg., Oakland.
COST $2500

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED

June 1, 1916—NW FOURTEENTH & Linden, Oakland. H Davis to C M Griffin.....June 1, 1916

June 1, 1916—W 37½ LOT 13 BLK "G" Northbrae, Bkly. H F Hiller to Ed A J Anderson, Axel Anderson and Carl Swanson.....Feb. 28, 1916

June 2, 1916—NW TWENTY-SECOND Ave 70 SW E-16th SW 35xNW 100, Okd. C W Glantz to whom it may concern.....June 1, 1916

June 2, 1916—E BONAR 100 S Channing Way S 35 E 110.55 NW 35.11 W 113.37, Bkly. Chas A Werner to whom it may concern....June 2, 1916

June 3, 1916—LOT 63 Map Henry and Phillips Tract, Okd. Isidore Coursinoux to Joseph Boeddeker.....April 15, 1916

June 3, 1916—LOT 29 BLK "A" Map No 2, San Pablo Park, Bkly. Arvid E Olson to whom it may concern .....June 1, 1916

June 3, 1916—S BROOKDALE AVE 70 W Humboldt S 100xW 35, Okd. George Hudson to whom it may concern.....June 1, 1916

June 3, 1916—LOT 69 and E ½ Lot 70 City of Elmhurst Tract, Stonehurst, Okd. F T Wood to whom it may concern .....June 3, 1916

June 3, 1916—LOT 11 BLK "I" Northbrae Terrace, Berkeley. Lavina M. Rother by J Henry Wolbold to Jacob Kollmer.....May 31, 1916

June 6, 1916—SW 12½ LOT 9, ALL lot 10, Blk 21 Map Key Route Heights, Oakland. S. A. Isakson to whom it may concern..May 15, 1916

June 6, 1916—N MELROSE AVE. 71.6 E 18th avenue, E 35xN 130, Oakland. Chas. A. Calhoun to M. G. Lee .....June 5, 1916

June 6, 1916—W HILLEGASS AVE. 98.33 N Woolsey St., 38x110, Berkeley. Mah Yin to Carl Walstrom.. .....June 6, 1916

June 7, 1916—SE NINTH & WEBster E 110xN 100, Okd. Crane Co to P A Palmer.....June 3, 1916

June 9, 1916—NE NINETY-SIXTH Ave 35x100, being Ptn Lots 16 and 17 Blk 19 Map Warner Tract, Okd. George Ferguson to E E Wells .. ..June 1, 1916

June 9, 1916—N 20 LOT 25 and S 20 Lot 26 Blk "F" Broadway Terrace being No. 5555 Thomas St., Okd.

Walter H Packard to whom it may concern.....June 9, 1916

June 9, 1916—N ALCATRAZ AVE 320 W Shattuck Ave N 120xW 50, Oakland Tp. Tillie K Umbdenstock frmly Tillie K Caseres to whom it may concern.....June 8, 1916

June 9, 1916—N E-THIRTY-FIRST 120 E 22nd Ave E 45xN 100, Okd. Irving S Tuttle to whom it may concern.....June 9, 1916

LIENS FILED

ALAMEDA COUNTY.

June 1, 1916—SW FRANCISCO AND Sacramento S 100xW 80, Bkly. T F Rodgers vs E M Reagh and Henry A Lehfeldt $42

June 2, 1916—SW HOWARD 185.145 NW Oakland Ave NW 40xSW 100, Okd. E K Wood Lumber Co vs H J Garcia $31.43

June 3, 1916—N TENTH 125 W Market W 35xN 99-6, Okd. F W Knight vs M A Churchill and Ames Estate Co $928.53

June 3, 1916—E MYRTLE 244-6 N Tenth N 100xE 125, Okd. F W Knight vs M A Churchill and Ames Estate Co.....$247.15

June 5, 1916—PALM BEACH bded on N by Central Ave, E by Washington Park, S by S F Bay and W by Page street, if extended S, Ala. Theo Victors and Charles A Blom vs Geo I Lamy.....$468.75

June 9, 1916—E LOT 5 BLK 4 Dwight Way Terrace, Bkly. Paul and Louis Taugher vs A H Christie..$96

RELEASE OF LIENS.

ALAMEDA COUNTY.

June 2, 1916—LOT 18 BLW 1 Map Brookdale Terrace, Okd. H A Liese to Robert Davies and W H Little $20

June 2, 1916—W FILBERT 125 S 8th S 43-8¾xW 125, Okd. H Peterson Co, $60.30; P A Spott, $102; John P Maxwell, $41.70; H C Brown, $68 and $68; Sunset Lumber Co, $695.25 A H Bar, $——; California Door Co, $281.71; J C Talbott, $100.35; Pacific Fuel & Bldg Materials Co, $42.05 to E Marshall and O M Bullock...

June 5, 1916—LOT 7 AND S 8½ LOT 8 Blk 11 Amended Map Sunset Terrace, Albany. Contra Costa Bldg Materials Co to Jennie A Yori and O G Smith.....$131.20

OAKLAND BUILDING SUMMARY.

For The Month of May, 1916.

Classification of Building	No. of Permits	Cost
1-story dwelling.....	77	$133,219.00
1½-story dwellings....	3	11,506.00
2-story dwellings.....	12	46,855.00
2-story flats.....	2	5,900.00
2-story apartments....	1	5,000.00
3-story apartments....	1	10,000.00
1-story stores.....	3	6,760.00
2-story office building.	1	8,000.00
2-story school.....	1	4,500.00
3-story reinforced concrete loft building..	1	35,000.00
1-story "C" stores.....	1	13,000.00
Wharf and concrete foundation of mill..	1	40,000.00
Reinforced concrete tire factory.....	1	16,000.00
1-story air compressor house	1	4,500.00
1-story factory.....	1	9,500.00
1-story warehouse.....	1	875.00
Crane way	1	400.00
Greenhouses	3	1,200.00
Garages, sheds and stables	49	8,026.00
Work shops and tank frames	5	920.00
Electric signs.....	12	3,495.00
Additions	38	11,720.00
Alterations and repairs	93	38,031.00
Total	309	$414,407.00

SUMMARY.

New construction.....	216	$376,376.00
Alterations and repairs	93	38,031.00
Total	309	$414,407.00

Total for the month of May, 1915, 190 permits; Cost, $350,035

Increase, 19 permits; Cost, $64,372.

Total, January to May, inclusive, 1916 1130 permits; Cost, $2,618,310.

Total, January to May, inclusive, 1915 1219 permits; Cost, $2,001,504.25.

Increase over, 1915, 211 permits; Cost, $616,805.75.

BERKELEY.

Building construction for May, 1916, amounted to $154,100.

April, 1916, $143,780. Increase over April, $10,320.

ALAMEDA.

Building operations for May, 1916, amounted to $69,120.

April, 1916, $48,698. Increase over April, $20,422.

BUILDING CONTRACTS

SANTA CLARA COUNTY.

DAIRY BARN, ETC.
SANTA CLARA AND SEVENTEENTH Sts., San Jose. All work for dairy barn, shed and garage.
Owner... ..American Dairy Co., 184 N-17th St., San Jose.
Architect ...None.
Contractor..W. R. Latta, 432 N-11th St., San Jose.
Filed June 7, '16. Dated June 5, '16.
Frame up, rustic on.....$ 860
Job accepted 1075
Usual 35 days..... 645
TOTAL COST, $2580
Bond, $1290. Sureties, W. M. Stalker and S. D. Williams. Limit, 40 days after June 12. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES.

SANTA CLARA COUNTY.

RECORDED ACCEPTED

June 3, 1916—PTN LOTS 16 AND 17, Schaad Sbdvn Blk 33 Reed Add'n., San Jose. F C Nelson to whom it may concern.....June 2, 1916

June 5, 1916—PTN LOTS 3 & 4 BLK 54, Naglee Park Tract, San Jose. H M Nelson to whom it may concern .....May 27, 1916

June 5, 1916—MARKET & LINCOLN Sts., Santa Clara. Charles H Pyle to T C Hastings.....June 5, 1916

June 1, 1916—LOT 2 BLK 46, Palo Alto. Jno Dudfield to whom it may concern.....June 1, 1916

June 1, 1916—HIGH ST. near Lincoln Ave, Palo Alto. I L Hill to whom it may concern.....June 1, 1916

RELEASE OF LIENS.

SANTA CLARA COUNTY.

RECORDED AMOUNT

June 5, 1916—LOCATION NOT GIVEN S H Chase Lumber Co to I Santoro et al $1163.71

BUILDING CONTRACTS

SAN MATEO COUNTY.

FRAME BUNGALOW
LOT 19 BLK 30, Easton Addition to Burlingame. All work for one-story 5-room and bath frame bungalow.
Owner.....Neil and Emily T. Haig.
Architect ...Joseph J. Rankin.
Contractor..Chas. Hutchings, Burlingame.
Filed May 27, '16. Dated May 13, '16.
Roof on $572.50
Rough plastered 572.50
When completed 572.50
Usual 35 days..... 572.50
TOTAL COST, $2290.00
Bond, $2290. Surety, London & Lancashire Indemnity Co. of America. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

FRAME RESIDENCE
LOTS 12 AND 13 BLK 1, Sub No. 4, Burlingame Park, Burlingame. All work except plumbing, sheet metal work, finished hardware, heating, light fixtures and window shades for one-story frame and plastered residence.
Owner.....Caroline J. Farless, Burlingame.
Architect ...Edwards & Norberg, Bank Bldg., Burlingame.
Contractor..Charles Hutchings, Burlingame.
Filed May 29, '16. Dated May 23, '16.
When framed $994
Roofed and plastered..... 994
When completed 994
Usual 35 days..... 996
TOTAL COST, $3978
Bond, $1989. Sureties, Edwin O. Hessler and James Kennedy. Limit, 90 days. Forfeit, $3. Plans and specifications filed.

FRAME BUILDING
LOT 14 BLK 2 No. 2 Burlingame Park, Burlingame. All work except hardware, light fixtures and shades for two-story frame and plaster building.
Owner.....J. S. Milne, 618 Fulton St., Palo Alto.
Architect ...Thos. M. Edwards, Bank Bldg., Burlingame.
Contractor..J. R. Catherwood and M. J. Hamilton, 148 W-Poplar St., San Mateo.
Filed June 6, '16. Dated June 2, '16.
When framed ..... ¼
When plastered ..... ¼
When completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $3989
Bond, $1994.50. Surety, London & Lancashire Indemnity Co. of America. Limit, 90 days. Forfeit, $3 per day. Plans and specifications filed.

HOLLOW TILE SCHOOLS
REDWOOD CITY GRAMMAR SCHOOL District, Redwood City. All work except tile roofs for two one-story hollow tile school buildings.
Owner.....Redwood City Grammar School District, Redwood City.
Architect...N. W. Sexton Co., Merchants National Bank Bldg. San Francisco.
Contractor..W. D. Henderson, Monadnock Bldg., S. F.
Filed June 8, '16. Dated June 6, '16.

Washington School

Framed, etc. $3270
When plastered 3270
When completed 3276
Usual 35 days..... 3270
TOTAL COST, $13,080

Lincoln School

Framed, etc. $2844
When plastered 2844
When completed 2844
Usual 35 days..... 2844
TOTAL COST, $11,376
TOTAL of both schools, $24,456
Bond, $12,228. Surety, Massachusetts Bonding & Insurance Co. Limit, Sept. 12, 1916. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED
May 27, 1916—SOUTH SAN FRANCISCO. Pacific Gas & Electric Co to Conlin & Roberts.....May 22, 1916
June 1, 1916—LOT 11 BLK "E," San Mateo Heights Addition, San Mateo. M J Conway to Croop & Keegan.... .....May 27, 1916
June 1, 1916—LOT 5 BLK 5, Burlingame Park No. 2, Burlingame. Edward E and Jessie D Bourne to Catherwood & Hamilton.June 1, 1916
June 1, 1916—LOT 36 BLK 100, South San Francisco. South San Francisco Land & Imp Co to R C Stickle..... .....May 26, 1916

LIENS FILED

SAN MATEO COUNTY.

RECORDED AMOUNT
May 27, 1916—LOTS 9 AND 10 BLK 11, West Redwood. Floyd L Baird and Earl D Baird vs Christopher M Cook and Wood C Baker.....$257.10
May 27, 1916—LOTS 9 AND 10 BLK 11, West Redwood. United Lumber & Supply Co vs Christopher M Cook and Wood C Baker.....$173.89

BUILDING CONTRACTS

MARIN COUNTY.

(Correction in Work)

GARAGE.
SAUSALITO, Marin County. Grading and concrete work for one-story garage building.
Owner.....Frederick Schnell et al.
Architect...T. Patterson Ross, 310 California, San Francisco.
Contractor..R. De Luca, 2256 Jones, San Francisco.
Filed May 24, '16. Dated May 23, '16.
Footings in .....$ 750
Concrete on 750
Concrete walls poured..... 750
When accepted 1200
Usual 35 days..... 1150
TOTAL COST, $4600
Bond, $2300. Surety, Massachusetts Bonding & Insurance Co. Limit, 45 days. Forfeit, none. Plans and specifications filed.

GALVANIZED IRON AND TIN WORK on above.
Contractor..W. Heidt Cornice Co., 152 First, San Francisco.
Filed May 24, '16. Dated May 23, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $1438
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

STEEL TRUSSES, STEEL BEAMS, angle clips, etc., on above.
Contractor..Brode Iron Works, 31 Hawthorne, San Francisco.
Filed May 24, '16. Dated May 23, '16.
Steel delivered $550
When completed 275
Usual 35 days..... 275
TOTAL COST, $1100
Bond, none. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

COTTAGE
ENTERPRISE AND HENSLEY STS., Richmond. Cottage.
Owner.....F. Grgich, 462 6th St., Richmond.
Architect...None.
Contractor..Kusich & Spiletak, 1175 Union St., San Francisco.
COST, $1200

FRAME DWELLING
RICHMOND. Two-story and basement frame dwelling.
Owner.....Mrs. Hanna.
Architect...Schirmer, Bugbee & Co., Dalziel Bldg., Oakland.
Contractor..Anthony & Heger, Dalziel Bldg., Oakland.
COST, $5150

FRAME RESIDENCE
LOTS 4 AND 5 BLK 3 of Tormey-Merrither Addition to Town of Martinez. All work for one-story frame residence.
Owner.....A. F. Bray, Brown Bldg., Martinez.
Architect...Charles S. Kaiser, Mechanics' Institute Bldg., San Francisco.
Contractor..W. H. & J. P. Ecker, 1306 Bissell Ave., Richmond.
Filed June 1, '16. Dated May 25, '16.
Roof on $1008
Brown coat plaster on..... 1008
Completed and accepted..... 1008
Usual 35 days..... 1008
TOTAL COST, $4032
Bond, $2016. Surety, Casualty Co. of America. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

FRAME BULDING
LOTS 8 AND 9 BLK 31 City of Richmond Tract, Richmond. All work for one-story frame building.
Owner.....W. J. Bernier, 132 Santa Fe Ave., Richmond.
Architect...None.
Contractor..J. A. Fagerstrom, 23 9th St., Richmond.
Filed June 2, '16. Dated June 1, '16.
Frame up $500
1st coat plaster on..... 500
When completed 500
Usual 35 days..... 500
TOTAL COST, $2000
Bond, limit, forfeit, none. Plans and specifications filed.

SCHOOL BUILDING
PRESENT PINOLE-HERCULES School site, Pinole, Cal. Excavating, concrete and cement, carpenter, plumbing, plastering, painting, galvanized iron and tinning, electric, heating, black boards, roofs and other work including installation of Master Bell System for remodeling of addition of two class rooms and assembly room to present school building.
Owner.....Pinole Hercules School District, Pinole.
Architect...James T. Narbett, 704 Macdonald Ave., Richmond.
Contractor..Keller & Crane, 3427 Andover, Oakland.
Filed June 2, '16. Dated May 20, '16.
Frame up $1646.25
Enclosed and interior plaster finished 1646.25
Finished and accepted..... 1646.25
Usual 35 days..... 1646.25
TOTAL COST, $6585.00
Bond, $3292.50. Surety, United States Fidelity & Guaranty Co. Limit, on or before Aug. 5, 1916. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED
June 3, 1916—SAN RAFAEL, Marin County. Stanley E Kohl to whom it may concern..... ....June 3, 1916
June 6, 1916—SAUSALITO, Marin County. Margaret E Hannon and E E Watson to H Davientte and Jas McNicholls.....June 5, 1916

COMPLETION NOTICES.

CONTRA COSTA COUNTY.

RECORDED ACCEPTED
May 13, 1916..LOT 8 BLK 3 Tormey & Merrithen Addition to Martinez. W R Sharkey to George Bitcon.... .....May 1, 1916
May 23, 1916—LOTS 9 TO 20, INCL of Blk 180 of Walls Addition to Richmond. Richmond School District to Mathew Morton.....May 6, 1916
May 25, 1916—LOT 12 BLK 1, Austin Tract, Martin W Joost to Ludden & Lambley..May 22, 1916
June 1, 1916—PUBLIC SCHOOL Grounds at Tormey. Board of Selby School Directors to Keller & Crane .....May 22, 1916
June 5, 1916—LOTS 9 & 10 BLK "L" Town of Concord. First Presbyterian Church to P M Sanford..... .....June 5, 1916
June 5, 1916—BLK 205 original survey of Town of Martinez. A E Blum to Ecker Bros....June 2, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

SCHOOL HOUSE
BLK 53 Paige Tract, Fresno. School house.
Owner.....St. Alpohnsus Church, 311 Kearny St., Fresno.
Architect...None.

Contractor..J. C. Templeton, 327 Howard St., Fresno.
COST, $10,000

STORES
LOTS 1, 2, 3 BLK 135, Fresno. Stores.
Owner.....F. Knoblock & Co.
Architect ...None.
Contractor..Hansen Constr. Co., 2225 Fresno St., Fresno.
COST, $5600

NO. 421 BLACKSTONE ST., Fresno. Addition to dwelling.
Owner.....J. H. La Rue, Premises.
Architect ...None.
Contractor..R. C. Blackwell, 1556 Central St., Fresno.
COST, $1000

LOTS 19 AND 20 BLK 228, Fresno. All work for dwelling.
Owner.....— Whitehead.
Architect ...None.
Contractor..H. Burgdorff.
COST, $1600

DWELLING
LOTS 13 AND 14 BLK 24 Alta Vista Tract, Fresno. Dwelling.
Owner.....W. T. Barr, Rowell Bldg., Fresno.
Architect ...F. E. St. John.
Contractor..J. M. Ackerman, 855 T St., Fresno.
COST, $6225

CABINET WORK, ETC.
FRESNO. Cabinet and tile work, wainscoting, marble work and decorating S. P. Depot.
Owner.....Southern Pacific Co., 1013 J St., Fresno.
Architect ...None.
Contractor..T. H. Meek Co., 1049 Mission St., San Francisco.
Filed June 8, '16. Dated May 31, '16.
Payments monthly of..... 75%
Usual 35 days.....Balance
TOTAL COST, $5436
Bond, $2718. Surety, American Surety Co. of New York. Limit, Aug 27, 1916. Forfeit, none. Plans and specifications filed.

DWELLING AND GARAGE
LOTS 5 AND 6 BLK 6, Fresno. Dwelling and garage.
Owner.....G. H. Carlson.
Architect ...None.
Day's work. COST, $2600

DWELLING
LOTS 1 AND 2 BLK 7, Englewood Addition, Fresno. Dwelling.
Owner.....— Hawthorn.
Architect ...None.
Contractor..Holbrook & Simpson.
COST, $1800

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

June 5, 1916—N ½ OF S ½ SEC 35 12-23, Fresno. D C Sample as to improvements on leased property....

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

June 2, 1916—SEC 17, 19-15, Fresno. Coast Range Oil Co as to improvements on leased property.....

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
June 2, 1916—LOT 1 BLK 20 Alta Vista Tract, Fresno. F B Billings to whom it may concern.May 31, 1916

LIENS FILED.

FRESNO COUNTY.

RECORDED AMOUNT
June 7, 1916—LOT 5 BLK 3, Pickwick Addition, Fresno. Valley Lumber Co vs Martin Scheiderman...$147

BUILDING CONTRACTS

SACRAMENTO COUNTY.

REPAIRS
NO. 205½ K ST., Sacramento. Repair fire damage on 2nd floor level of store
Owner.....Mrs. Barier.
Architect ...None.
Day's work. COST, $991

ALTERATIONS
NO. 1824 SEVENTH ST., on S ½ Lot 5, R, S, 6th and 7th Sts., Sacramento. Remodel residence.
Owner.....W. C. Weirich.
Architect ...None.
Day's work. COST, $700

FINISH FRAME DWELLING
NO. 1607 F ST., on E ½ of S ½ Lot 8, E, F, 16th and 17th Sts., Sacramento. Finish off 1st story frame dwelling.
Owner.....G. W. Shoemaker, 1607 F St., Sacramento.
Architect ...None.
Contractor..Theilbahr & Bender, N-Sacramento.
COST, $950

ALTERATIONS
NO. 2909 Q ST. on W ½ Lot 7, P, Q, 29th and 30th Sts., Sacramento. Move and remodel residence
Owner.....Peter Coleca.
Architect ...None.
Contractor..P. F. Reed, 2613 28th St., Sacramento.
COST, $1225

REPAIRS
NO. 2401 K ST. on S ½ of W ½ Lot 8, J, K, 24th and 25th Sts., Sacramento. Repair fire damage to residence.
Owner.....E. H. Bitzer, 2409 L St., Sacramento.
Architect ...None.
Day's work COST, $1000

CONCRETE HALL
SIXTH AND I STS, on Lot 1 H, I, 6th and 7th Sts., Sacramento. Steel and reinforced concrete Hall of Justice.
Owner.....City of Sacramento.
Architect ...Shea & Lofquist, Bankers Invst. Bldg., S. F.
Contractor..Howard S. Williams, Hearst Bldg., S. F.
COST, $196,426

FRAME DWELLING
NO. 2608 FIRST AVE, Curtis Oaks, Sacramento. Frame dwelling.
Owner.....John Longdonberg.
Architect ...None.
Contractor..H. G. Birdsall, 2811 T St., Sacramento.
COST, $2300

ELECTRICAL WORK
LOT 4, L, M, 27th and 28th Sts., Sacramento. Electrical work for three-story and basement Class "A" lodge building.
Owner.....The Scottish Rite Cathedral Ass'n. of Sacramento.
Architect ...Carl Werner, Phelan Bldg. San Francisco.
Contractor..Charles E. Turner.
Filed June 2, '16. Dated June 1, '16.
COST, $1996

REMODEL STORE
NO. 221 N ST., on E ½ of Lot 6 Blk M, N, 2nd and 3rd Sts., Sacramento. Remodel store.
Owner.....O. N. Kronkite.
Architect ...None.
Contractor..T. Inokara, 82 Japan Alley, Sacramento.
COST, $600

FRAME DWELLING
NO. 3133 E ST., on 182 Casa Loma, Sacramento. One-story 6-room and bath frame dwelling.
Owner..... W. D. McKay, 3029 E St., Sacramento.
Architect ...None.
Day's work. COST, $2500

LIENS FILED

SACRAMENTO COUNTY.

RECORDED AMOUNT
June 6, 1916—LOTS 228, 229 AND 230, South Oak Park, Sacramento. Walter C Measure vs H F Carstens, Albert D Smith and Western Loan Co and J Qualls $230.50

BUILDING CONTRACTS.

SONOMA COUNTY.

FRAME HALL
PETALUMA, Sonoma Co. All work for two-story frame parochial hall and two-story frame convent.
Owner.....Roman Catholic Archbishop of San Francisco.
Architect ...J. J. Foley, 46 Kearny St., San Francisco.
Contractor..F. F. Cullen, Petaluma, Cal
Filed May 15, '16. Dated May 5, '16.
1st day of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $22,420
Bond, $11,210. Surety, Fidelity & Deposit Co. of Maryland. Limit, 125 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SONOMA COUNTY.

RECORDED ACCEPTED
May 20, 1916—PETALUMA. Petaluma City School District to F P Walsh .....May 20, 1916

LIENS FILED

SONOMA COUNTY.

RECORDED AMOUNT
May 8, 1916—CLOVERDALE. R F Green vs A Bacci.....$631.40
May 16, 1916—SANTA ROSA. Berka Lumber Co vs F A Bentz.....$206.07

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

FRAME DWELLING

LOT 12 BLK 26, Tuxedo Park near Stockton. All work for frame dwelling.

Owner.....Paul T. Robinson, 1305 E-Main St., Stockton.

Architect...Paul T. Robinson, 1305 E-Main St., Stockton.

Contractor..Andrew Bowman & J. H. Plecardo, Stockton.

Filed May 29, '16. Dated May 24, '16.

Completion of frame.....	25%
Plastering completed	25%
All work completed.....	25%
36 days after.....	25%
TOTAL COST,	$2700

Bond, $2000. Sureties, T B. Littleton and Robert Hanson. Limit, forfeit, none. Plans and specifications filed.

BRICK BUILDING

LAFAYETTE ST., W of Center St., Stockton. All work for three-story brick building.

Owner.....G. Firpo, 248 W-Lafayette St., Stockton.

Architect...Louis Mastropasqua, 580 Washington, S. F.

Contractor..Daniels & Green, 623 W-Park St., Stockton.

Filed May 19, '16. Dated May 18, '16.

Joists on 2nd floor in place.....$	2672
Tar and gravel roofi on.....	2672
2nd coat plaster on.....	2672
Completed and accepted.....	2672
Usual 35 days.....	3563
TOTAL COST,	$14,250

Bond, $7100. Sureties, Benj. Walters and Lorenzo Oneto. Limit, 100 days. Forfeit, all damage. Plans and specifications filed.

BUSINESS MEN CAST OVERWHELMING VOTE FOR ADEQUATE NATIONAL DEFENSE.

General Military, Industrial and Financial Preparedness Favored in a Record Vote Participated in by Organizations of the Chamber of Commerce of the United States.

WASHINGTON, D. C.—Business men want preparedness. They have voted for it in a referendum of the Chamber of Commerce of the United States. A majority of 120 to 1 was recorded. Those who have a definite stake in the country and must bear a large share of the burden of paying the bill for national defense have come out squarely for a comprehensive scheme involving the entire military, industrial and financial resources of the nation.

There has been propaganda of all kinds for preparedness and non-preparedness, including straw votes newspaper campaigns, and the circulation of pamphlets and statistics. This, however, is thought to be the most thorough and complete effort yet made to ascertain country-wide sentiment on a question so prominently before the people and Congress.

According to the vote cast, it is now said to be known exactly where the business men of the country stand on the general question of preparedness and also what their views are for an adequate army, a largely increased navy, a thorough-going industrial preparedness, and the basis on which all these features must rest—universal military training.

Largest Vote in History of Organization.

The referendum on national defense is of further interest because it has brought out the biggest vote ever recorded from the commercial organizations which make up the Chamber of Commerce of the United States. The heaviest voting was on the general preparedness recommendation and resulted in 970 in favor as against 8 opposed, a proportion of 120 to 1. The lowest vote was on universal military training, 889 in favor and 56 opposed; but even here the proportion was more than 15 to 1. Forty-three States were represented, the District of Columbia, Alaska, Hawaii, the Philippines and the American Chamber of Commerce in Paris, France.

Numerous plans have been advanced having to do with the army and navy, but it is said that heretofore there has been no serious attempt to look on preparedness for national defense as a nation-wide problem which could only be solved by mobilizing the entire resources of the country, both actual and potential. The referendum was based upon the report of a special committee of which Bascom Little, recently president of the Cleveland Chamber of Commerce, is chairman.

Universal Military Training Advocated.

The success of any general scheme of national defense, according to the referendum to which the Chamber of Commerce of the United States is now committed, can only be realized under a system of universal military training. Senator Chamberlain has a bill in Congress to provide for such a system, but it has not yet been introduced in the House. Nothing in the army bill which has just been passed by Congress provides for any measure of universal training whatever.

It is, nevertheless, the belief of the committee of the National Chamber that the duties of every citizen, great or small, must be definite and that there can be no military organization in a great democracy such as ours which would be either desirable or safe, much less adequate unless it laid down for all time the principle that equal rights mean equal obligations and that every citizen must not only be willing but also able and prepared to defend his country.

How the Vote Stood.

Whereas the essential question presented to the business organizations of the country was to ratify or reject a general plan of national defense, Elliot H. Goodwin, the secretary of the National Chamber, explained, the referendum itself was divided into ten recommendations to facilitate balloting. The vote on the several questions which ocmposed the comprehensive scheme, according to the preliminary count, was as follows:

	For	Agnst
1. For general preparedness..	970	8
2. For a Council of National Defense	912	46
3. For a Staff of Industrial Mobilization	925	47
4. For an adequate navy....	952	10
5. For a General Staff of the Navy	946	19
6. For a regular army with trained reserves such as recommended by the General Staff or Council of National Defense when established	946	21
7. For universal military training	889	56
8. For prearrangement with private companies for war supplies	940	26
9. For reserve supplies of war material	935	29
10. For additional commissioned and non-commissioned officers of the regular army and a properly trained officers' reserve corps	960	9

No Specific War Contemplated.

In justifying the necessity for general preparedness the report of the committee on which the referendum was based stated that it was as futile to ask for what particular war the United States is to prepare as to ask a ship captain against what particular accident or storms his ship carries life boats. Moreover, it is the belief that in any great scheme of national defense there can be no question of rich or poor, privilege or non-privilege. According to the committee there can only be organization on the basis of each citizen's capacity to serve either in arms or in the industrial mobilization. It was the opinion that national defense must be based on the realization of every individual that he has a vital stake in the life of the nation.

Co-operative Industrial Mobilization.

With the above principle as the fundamental basis, the referendum sets forth a plan which calls first of all for the establishment of a body in the nature of Council of National Defense which can perform an advisory and coordinating function in obtaining a comprehensive view and arrangement of the vast number of elements which must be comprised in the defense of a nation of 100,000,000 people. This council would thus also be able to develop the army and navy in accordance with a continuous policy under the orders of the President and Congress.

As the Council of National Defense will obtain a comprehensive perspective of the needs and policies of the nation, so it is necessary to establish a Staff of Industrial Mobilization so organized and maintained in time of peace as to insure the most effective use of the economic resources of the United States in case of war.

This body would include functions which no amount of "last hour" legislation can afford in providing complete reserve munitions and equipment for both the navy and the army and organizing a system to continue such supplies on an effective basis in time of war by a prearranged organization and training of all industrial and economic resources.

Industrial Preparedness.

It might be expected that business men would lay emphasis on industrial preparedness. The Chamber of Commerce of the United States is now committed to what is claimed to be the only practicable system which can be devised in a democracy for mobilizing the industrial resources of the nation by a definite system of prearrangement for war supplies. Since the war has become so much a matter of equipment and munitions, it is declared that the permanent efficiency of the army and navy must depend upon supplies.

The fundamental feature of the system advocated is to educate private industry in the manufacture of war material in time of peace under a mutually prearranged regulation of prices with private manufacturers rather than to trust to production in government plants alone.

This can be done, it is claimed, first by making a comprehensive industrial survey of the thirty thousand or more plants in the United States immediately available for the production of war material. After such a survey is complete, the plan provides that the government should enter into contracts with each of these firms for a small annual supply of the material for which they are particularly equipped. These orders in the aggregate should be sufficient not only to supply current needs of the army and navy, but also sufficient to accumulate a reserve of material adequate to supply our land and sea forces from the beginning of a possible war until such time as the industries of the country can produce the vastly increased supplies then necessary.

Nothing appears in the army bill passed by Congress which will allow for the establishment of a system of this kind until a time when, it is declared, it will be too late. It is not yet known what may be provided in this direccion in the navy bill when it is finally passed.

Larger Army and Navy.

The business men who voted on the referendum are committed to an army such as that recommended by the General Staff or a Council of National Defense when established. This would mean a larger force than that provided in the army bill this year and will, it is said, constitute a standard which the Chamber of Commerce of the United States and its members will make an effort to have realized in subsequent legislation.

When it comes to the navy the referendum provides for the immediate undertaking of a building program which will restore the United States at least to its former position of second naval power in the Atlantic with a surplus in the Pacific sufficient to protect its coasts, its possessions, its trade routes, the Canal Zone and adjacent territory. This recommendation was adopted on the ground that if attacked the cheapest, most effective and safest defense of the country by the navy can only be obtained if it is strong enough to seek out and destroy the enemy at sea and certainly at a distance from our shores sufficiently great to render invasion impracticable. A General Staff for the Navy is also advocated as a logical necessity.

No Profit Interest in War.

The referendum lays special emphasis on the fact that there should be no munitions trust or any possibility of arrangements which would make the real needs of the country subject to a profit interest in war on the part of anybody. The system of prearrangement for war supplies advocated will, it is claimed, remove all possibility of making capital out of the country's necessary plans for defense. It includes an industrial survey which will take in the thirty thousand or more plants which are qualified in one way or another to furnish war supplies and will embrace so wide a field that any combination of interests will be impossible. Furthermore, the prearranged agreements with manufacturers will be on a cost plus or other basis which, while doing justice to stockholders and owners, will be absolutely insufficient to create any interest in war.

Chairman Hay, of the House Committee on Military Affairs, with the approval of the President, introduced a bill into the House recently providing for a Council of Executive Information which, it is declared, is much in the nature of a Council of National Defense, with an advisory commission whose duties will closely approximate those of a Staff of Industrial Mobilization. This Council would appear to be composed exclusively of Cabinet officers.

This throws an interesting light on the plan advocated in the referendum of which the keynote is co-ordination. At present the President and Congress direct and maintain the army and navy. According to the referendum an intervening body in the nature of a Council of National Defense whose membership should include business and civilian administrators, is needed to outline consistent policies of development, to advise and to plan. Furthermore, today the army and navy take care of their own supplies and munitions. It is claimed that an intervening body such as the Staff of Industrial Mobilization should be created to organize the industries of the country and to assist in standardizing equipment and munitions for both the army and navy, so that full advantage can be taken of the tremendous potential resources of the United States with a minimum expense and the least possible waste of time and energy. This whole plan which includes a General Staff for the navy like that which now exists for the army, is based on a system of universal training which will insure every citizen being held to perform the duty which he is best qualified to fulfill.

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3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
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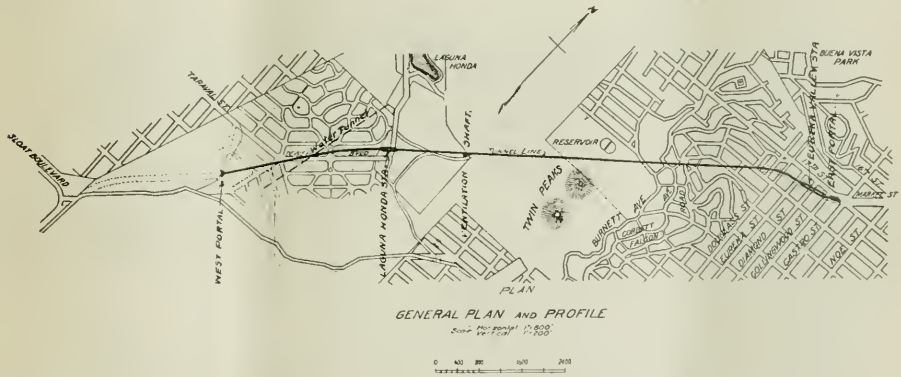
Issued Weekly, $3.00 per year | *San Francisco, June 21, 1916* | *Sixteenth Year, No. 24*

Method and Progress of Construction of the Twin Peaks Tunnel In San Francisco, Cal.

By L. GLICK, Assistant Engineer, Bureau of Engineering, San Francisco

The Twin Peaks Tunnel, now under construction by R. C. Storrie & Company for the City of San Francisco, will be a concrete lined tube 12,000 feet in length for double track, rapid transit service. This bore will connect a large residential district in the southwestern portion of the city with the main business section.

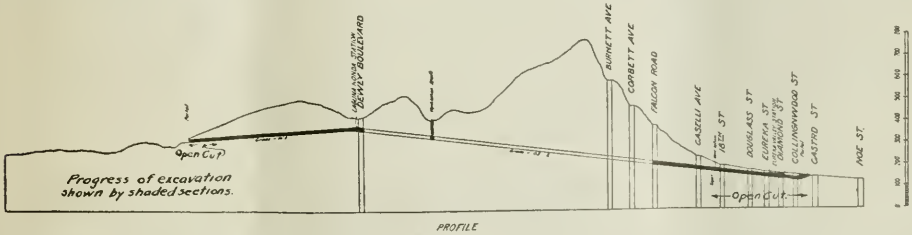
The tunnel cost is financed by an assessment levied on the districts surrounding the two portals. The assessment district at the west end contains 4,000 acres, most of which is in large holdings, now subdivided into "restricted" resident tracts. This district was assessed from 1-2c to 3 1-2c per square foot—depending on the estimated benefit to be derived from the tunnel—for 85 per cent of the total estimated cost of the work and necessary lands for right-of-way. The section about the east portal is well developed and the assessment district therein is relatively small, about 650 acres.



The east portal is located at the westerly end of Market street, the main business thoroughfare of the city. The city purchased a 90-foot right-of-way, extending 1,800 feet from the end of Market street, which, on the completion of the tunnel will be paved as a portion of the Market street extension, and will connect with a boulevard over the Twin Peaks into the residential district at the west portal of the tunnel. This boulevard, now under construction under a separate contract, has a maximum grade of 7 per cent and affords extensive views of all portions of the city and surrounding country.

The approach to the easterly portal is 350 feet long and has a grade of .0424. It consists of a cut 29 feet in width, between two parallel reinforced concrete retaining walls. As the traffic on Market street is growing more congested it will be only a few years until a subway for rapid transit will be necessary under this thoroughfare. In the event of the construction of a subway it will connect with the present construction at the Eureka Valley Station, and the easterly portal of the tunnel and the approach thereto will be used for surface connection.

From the easterly portal the tunnel grade is +.014 for a distance of 600 feet and for the succeeding 1,075 feet the grade is +.0287 and is then +.03 for 6,700 feet, from which section to the west portal, a distance of 3,300 feet, the grade is +.0115.

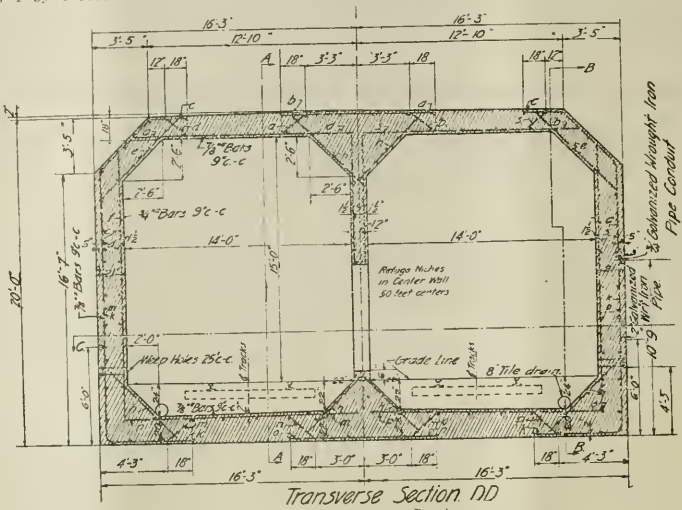


Types of Tunnel Lining.

For the first 1,665 feet, with the exception of 300 feet of the Eureka Valley Station, owing to the slight raise in the ground surface and the shallow cover obtainable, a double tube subway type of structure was adopted, consisting of a flat bottom 22 inches thick; side walls 21 inches thick; a 12-inch central wall and a flat slab top 18 inches in thickness. This is of reinforced concrete

construction, as are all sections of the tunnel excepting the Eureka Valley Station. The total height inside is 17 feet, the roof slab is 15 feet above rail, and the width in each section is 14 feet. The reinforcement of the top and bottom slabs consists of 7-8-inch square twisted bars; that of the walls 3-4-inch bars, all 9 inch centers. Openings 4 by 6 feet in the central walls and

The roof and sides of this station were waterproofed with a 4-ply felt and tar application, overlaid with a single layer of 3-compartment porous book tiles. The double tube section and all underground sections constructed in open cut were waterproofed along the sides of walls and top with application of an asphalt and distillate compound, applied from a force pump.

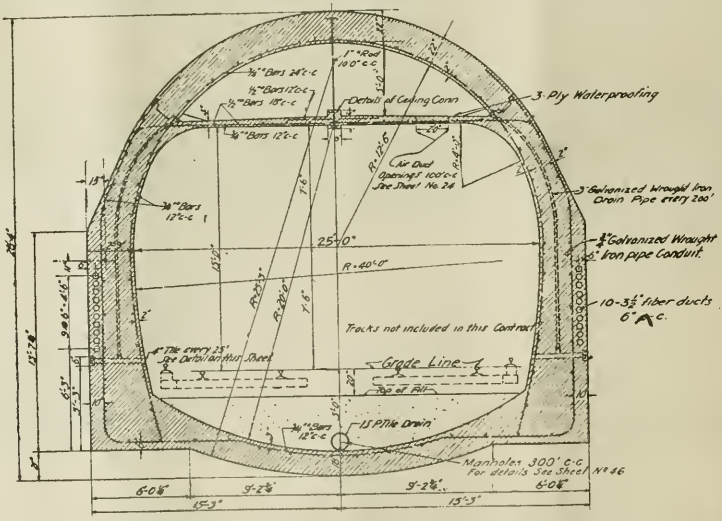


Double Tube—Flat Top Section.

4 by 6 feet 4 inches by 2½ inches deep in the side walls, are spaced 50 feet apart, for the placing of lights and for refuge for trackwalkers.

Beginning 300 feet west of the easterly portal, is the Eureka Valley Station, an underground structure, consisting of a steel frame on a reinforced concrete footing slab with reinforced concrete walls, roof slab and plat-

The portion of the tunnel proper from the westerly portal to the double tube section, with exception of the Laguna Honda Station, will have three types of lining, depending upon the nature of the ground encountered. These sections of lining differ only in the thickness of the concrete and amount of reinforcing, with the use of invert lining in soft ground.



Tunnel Section in Soft Ground.

forms. This station is 300 feet long and 52 feet 6 inches wide, with a central row of columns and a row of columns along each platform; the platforms being 13 feet 4 inches wide and running the length of the station on both sides. All steel columns and roof girders are imbedded in concrete. At each of the four corners are stairways leading to ornamental entrance kiosks on the surface above.

The inside dimensions of the tunnel lining are 25 feet in width for all sections; 25 feet in height where the invert is lined and 22 feet where there is no invert lining. The height from rail to arch is 20 feet—the net clearance above rail grade being 15 feet, as the upper five feet of the tunnel is cut off by a 6-inch horizontal slab, suspended between the side walls. This slab is supported in the

center by 1-inch rods, 10 feet on centers, embedded in the arch concrete and in a longitudinal beam upon the slab.

The arch thickness of the three sections are 22, 18 and 8 inches, respectively, the sidewalls being 2 feet 9 inches at spring line in two sections and 12 inches thick for the lightest section. The heavier section has an 18-inch invert lining. The substitution of a five-ring brick arch lining above the slab in the two heavier sections is optional with the contractor.

The space between the slab and the arch forms a duct through which fresh air from the surface will be forced by two sets of blowers. One set will be at the westerly end of the flat top section, the other in the circular concrete lined shaft from the tunnel to the surface, located 4,600 feet from the west portal. Two-foot square openings, placed every 100 feet in the slab will admit the fresh air into the lower section of the tunnel.

Ten fibre ducts are placed in each side wall of the tunnel and will be used for power and lighting cables. Access to these are had every 400 feet on each side from deep niches similar to those in the double tube section. Between these niches, shallow niches are spaced every 50 feet on each side, as in the other section described, for use as refuge places.

A three-compartment, 6-inch longitudinal porous tile drain is embedded in the outer side of the concrete lining with one face exposed, on each side of the tunnel in the section through soft material. Tees and 4-inch pipe, spaced 25 feet apart, leading into the tunnel will carry the ground water into the track ballast and thence into open joint pipe drains laid in the ballast.

Laguna Honda Station is situated at the peak in the grades of the tunnel at the eastern edge of the residence tracts which are being developed by the tunnel construction. This is a reinforced concrete arch section 300 feet long, having a span of 44 feet. The thickness of arch lining is 3 feet, the invert being 26 inches thick.. Stairways on each side and an elevator shaft for three passenger elevators afford access from the surface station to the cars.

Excavation in Open Cut.

The contract was awarded on November 12, 1914, the estimated price based on unit prices per lineal foot for different sections, being $3,372,000. Work was started on the east end on November 30, 1914. For the three months following the work was mainly preliminary, such as laying outlets for the tunnel drains, the regrading and repaving of streets at the portal, with the necessary reconstruction of sewer and high pressure auxiliary water systems, and the construction of the approach to the portal. Work at the west portal was started in December, 1914.

At the east end, a section 2,000 feet long (including the double tube section, the Eureka Valley Station and a portion of the arch section) and a 500-foot length of arch section at the west end were constructed in open cut excavation. The cut at the east end was from 15 to 40 feet deep in a sandy clay soil for over 1,500 feet. This section required no timbering and was excavated by steam shovels, in some portions in two benches. The remaining portion followed a filled-in creek bed and required piling and heavy timbering and was excavated by pick and shovel work.

Auto trucks were used to haul a portion of the excavated material to a dump with a haul of four miles. As the work progressed the completed section was backfilled with the material from the section ahead. About 95,000 cubic yards were moved by steam shovels and 30,000 by hand labor—25,000 yards of this was used in the backfill.

The open cut at the west portal was from 30 to 50 feet deep in a dry sandy soil. The upper portion, about 11,500 cubic yards, was stripped with scrapers, this material, after completion of the concrete work, being replaced by means of a dragline scraper. The remainder of the cut was excavated by steam shovel—35,000 cubic yards being hauled out in dump carts and used for filling a ravine extending beyond the portal.

At the Laguna Honda Station, which is situated in a narrow valley, the tunnel grade is approximately 70 feet below the ground surface and this section is also being constructed in open cut. The earth, a sandy clay overlaid at the surface by sand, was excavated to within 15 feet of rail grade by steam shovel and then trenches along both sides excavated by hand for the side walls and footings. The excavated material was hauled in auto trucks and used for filling the adjacent portions of the valley, the maximum haul being approximately a third of a mile.

Book Tile of Eureka Valley Station, Manufactured of Local Clay by the Steiger Terra Cotta and Pottery Works.

Excavation in Tunnel.

The excavation for the ventilating shaft was 110 feet in depth through water-bearing sand. The finished shaft is 13 feet interior diameter, the excavation being made 20 by 32 feet for construction purposes. The shaft excavation was timbered with spiling held by 12 by 12 bracing and walings hung with steel hangers.

From the bottom of this shaft, which was a few feet into a sandstone strata, a drift was driven west along the line of the tunnel at invert grade. After driving 300 feet, the drift ran out of the sandstone into water bearing sand, and a flow of 300,000 gallons of water per day was pumped from the sump. In order to keep within the sandstone, which dipped towards the tunnel, another heading was driven to one side from the first, and followed the strata. After passing the body of sand, this drift was turned back onto the original line and carried forward.

The excavation in tunnel is being carried on at present from two points—from the ends of the open cut sections at the east and west portals. The method used is the wallplate drift method with solid timbering. Three drifts are driven simultaneously, one at each side with bottom at springline level and one at the top along the center line with the caps of the drift sets, just high enough to allow placing of the crown segment. A fourth drift was

driven from near the west portal at invert grade along the center line in order to drain the water from the ground and facilitate the driving of the main section. This drainage drift was advanced and carried about 600 feet ahead of the main excavation.

When the wallplate and top drifts are advanced about 24 feet, a wallplate, cut from 12 by 14 timber, is set in each side drift. The ground between the top and side drifts for 2 to 4 feet (depending upon its nature) is then opened up and the seven timber arch segments are set above the wallplates. This leaves a bench between the top heading and wall plate level which is excavated by pick and shovel and with drills and powder where necessary. Two benches the full width of the tunnel are similarly excavated from wallplate to floor level.

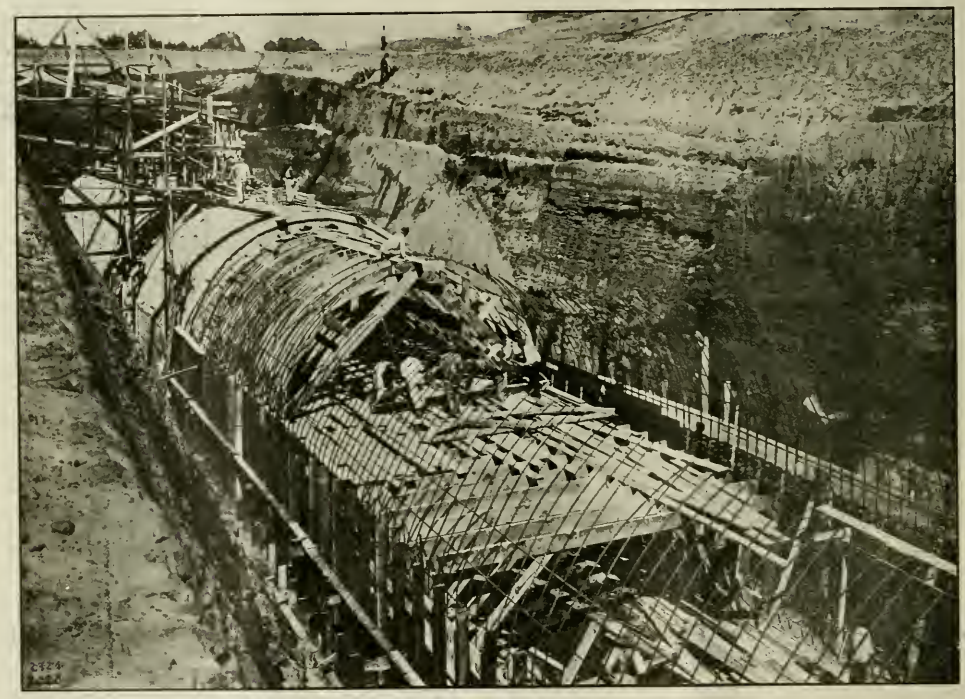
Temporary posts are placed beneath the wallplates as the middle bench is excavated and are replaced by plumb-posts resting on foot blocks as the lower bench is carried forward. The segments and posts are cut from 12 by 12 inch timbers and form a solid timber lining—1200 feet B. M. of timber being used per foot of excavation.

hour shifts. The excavation has now reached the Laguna Honda Station (the arch section of which was concreted in open cut) and the core beneath the station arch is now being taken out through the tunnel section.

At the east end of the tunnel the excavation for several hundred feet was through clay and gravel, but is now into chert and altered sandstone. The chert is in layers with clay strata between and requires the same heavy timbering as the softer material. A large flow of water from underground springs was encountered, but this did not hinder the work to any extent. An open joint pipe drain is carried forward beneath the floor level as the work progresses and materially aids in keeping the tunnel dry.

The progress of the excavation through this material has been at the rate of 9 feet per day, but as the drifts are in solid sandstone it is expected that the rate of progress will be increased as less timbering will be required. The heavier tunnel section requires about 30 cubic yards of excavation per lineal foot, the medium section but 23 cubic yards.

At a point about 1,800 feet from the westerly portal, the



Arch Section Near West Portal in Open Cut.

The tunnel is excavated to 12 or 18 inches below rail grade, and trenched along the sides for plumb posts and for the concrete footings of the sidewalls. The muck has been dumped into cars and hauled out by mules. At the west end the muck has been used to fill a ravine beyond the portal. At the east end the cars were hauled to the surface through an opening in the roof of the double tube section on an escalator (a moving endless chain conveyor and the muck used to backfill over the sections constructed in open cut. This escalator was later removed and the muck is now loaded at the face direct into motor trucks, which haul it to low lying sections of the city for dumping and fill. Bunkers and electrically operated elevators are now being constructed at the openings, formerly occupied by the escalators. When these are completed, tracks will be laid in the tunnel and the excavated material hauled out in cars by mules to the elevators and then up into the bunkers, from which motor trucks will be loaded.

The material encountered from the west portal has been sand and soft sandstone. The excavation has progressed at the rate of 12 to 15 feet per day for three eight-

tunnel line is crossed by a brick lined water tunnel of the Spring Valley Water Company, built in 1865. As this crosses at a sharp angle and is but 8 feet above the tunnel, it was necessary to by-pass the water before excavating underneath. This was accomplished by sinking a shaft to the water tunnel from the surface at a point before it crossed the line and carrying the water in a 30-inch pipe laid in a drift driven from the shaft. This drift was parallel to the line for 275 feet and then crossed it at right angles, connecting up with the water tunnel beyond the crossing. As soon as the excavation of the tunnel was carried beyond the water tunnel, the concrete lining was placed and the water turned back through its original course.

Forms.

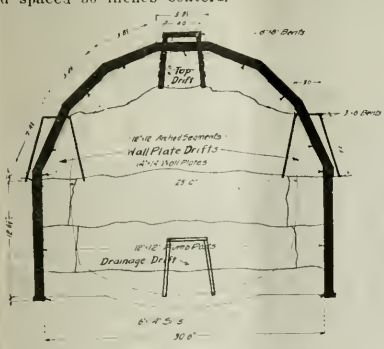
In all open-cut construction, wooden forms were used, those for the double tube section being built in eight-foot lengths in four parts for each tube and used several times.

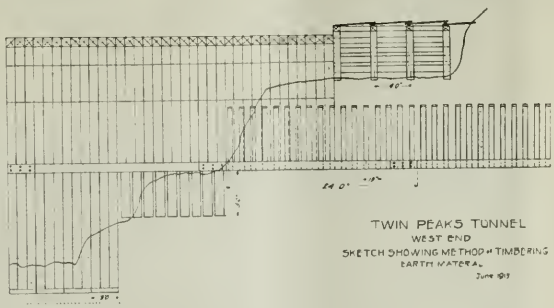
Within the tunnel the concrete is poured against the timber lining and the inside form, for the side walls and ceiling slab is a two-hinged collapsible form, consisting

of 3-16-inch steel plates bolted to angle iron latticed ribs. The forms are in 10-foot sections with ribs spaced 2 feet on centers and have no cross bracing, thus affording an open passageway beneath. The forms are held in position by a 6 by 6-inch timber stringer across the lower ends of the ribs and slipped over bolts previously embedded in the footing concrete. The forms are kept in place seven days after concrete is poured and are moved and erected from a timber traveller or "jumbo." This jumbo consists of a trussed frame on four legs, which move along rails laid along the footing concrete. Four jacks, one at each corner of the jumbo, engage the forms and the wings are swung in and the forms lowered and moved ahead beneath the other forms and then raised into place. The jumbo is constructed so as to allow passage of muck cars beneath it and thus forms can be moved ahead and set up without interfering with the concreting of adjacent section or the excavation of the tunnel.

The inside footing forms are built of wood in eight-foot sections and after stripping are repaired and used several times. The arch forms consist of 2 by 6-inch timber, set longitudinally on curved steel I beams resting on the ceiling slab. The I beams are 7 inches in depth and spaced 30 inches centers.

Timbering of Tunnel Excavation.





Methods of Concreting.

The concrete in open cut work was mixed in standard rotary mixers, set up on the edge of the cuts and was placed with chutes and buggies. The biggest portion was placed direct from chutes without wheeling. Previous to the installation of pneumatic concrete mixers and conveyors a portion of the concrete lining of the tunnel sections was similarly placed.

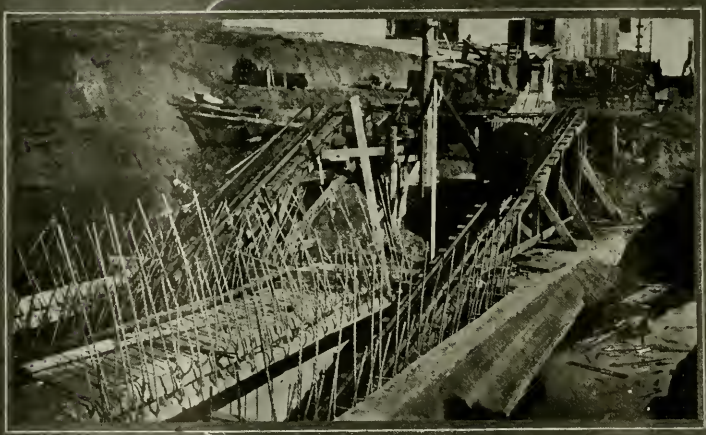
The pneumatic mixer used consists of a steel cylinder with a cone shaped bottom at the point of which is attached a 90-degree special reducing elbow and connecting with the 8-inch conveying pipe. At the top of the cylindrical portion is a door opening into the cylinder and operated by an air controlled piston. Air feed pipes enter through the side of the cylindrical ring and also into the reducing elbow at the bottom of the mixer. The aggregates and cement are fed into the mixer from a measuring hopper set above it, water is turned on, and the door closed. The air valve is then opened, and the material shot through the elbow into the pipe, being given a rotary motion by two projections running spirally around the inside of the elbow. The concrete is thoroughly mixed when it emerges from the pipe.

Two of these pneumatic mixers are now in use, one near the west portal, the other near the easterly end of the work. Each is set on the ceiling slab in the arch section, at the bottom of short concrete-lined shafts extending to the surface. Above the shafts are constructed the rock and sand bunkers—chutes for carrying cement also pass throug the bunkers and shafts Thus all materials are fed into the measuring hopper by gravity.

The conveying pipe is 8-inch steel pipe with flange joints, bolted together and is laid along the top of the ceiling slab. For filling the footing forms or sidewall and slab forms the pipe is led into a steel receiving hopper at the section to be poured. This hopper is suspended from the arch segments of the timber lining; from the hopper extend chutes into the forms to be filled. This hopper was necessary as "shooting" the concrete from the pipe directly into the forms displaced the reinforcing steel and conduits.

For concreting the arch, the conveying pipe is led into the forms; as the arch has reinforcing steel only in the intrados, the concrete can be "shot" in without displacing reinforcement. By this pneumatic method, concrete has

Top Reinforcement of Subway Section



Escalator for Hauling Dirt Cars from Tunnel

Invert Reinforcement and forms of Subway Section

been mixed, conveyed and placed in forms situated 2,500 feet from the pneumatic mixer on an upgrade of 1.15 per cent. It is expected that concrete will be conveyed by this method over 3,000 feet up the 3 per cent grade from the easterly workings.

The concrete of the footings and the walls and slabs has been done mostly under a regular procedure. The "heel" (the footing of the side walls) was poured in 80 to 100-foot sections and about the third day after, the concreting of the sidewalls and ceiling slab of that section in 30 to 40-foot lengths was begun. During the intervening two days, the footing forms were stripped, the track for the "jumbo" laid and the steel forms were being set. As the walls and slabs were being poured, the setting of the steel forms was finished and excavation and form setting for a section of footing ahead carried on.

The arch was concreted in much longer sections, the pour being continuous through several shifts. A section of the brick arch, 140 feet in length, was constructed at the beginning of underground work near the west portal. When the pneumatic method of concreting was provided for, the contractors abandoned the brick in favor of concrete arch lining.

The lining of the invert, where necessary in section excavated in tunnel, will be placed later, as new outlets for the hauling of the muck to the surface are reached (such as are provided by the open cut at Laguna Honda Station and by the ventilating shaft). The tracks and runways for the disposal of the material in these excavated sections will then be taken up and the invert excavation and lining completed. In the sections excavated in open cut, excepting Laguna Honda Station, the complete linings were placed before proceeding with the tunneling. The invert in the station will be placed as soon as the excavation of the core, now being carried on, is completed.

The concrete mixture consists of 2 1-4 cubic feet of sand, one-third of which is river sand and the balance bank sand, to each sack of cement, and sufficient rock added so that the mortar completely fills the voids. This varies with the rock used, a river gravel ranging between 1-2 inch and 2 inches in size, but is usually between 5 and 5 1-2 cubic feet to the sack of cement.

For waterproofing all concrete used in any part of the tunnel section, hydrated lime in proportions of 8 pounds to every 100 pounds of cement, was added before the aggregates were placed in the mixer.

The concreting of the footings and walls and vent slab follow closely behind the excavation, and at present 3,000 feet of the tunnel at the west end and 2,500 feet at the easterly end are partially lined. Nearly 50,000 cubic yards of concrete have been placed, of which over 10,000 cubic yards were "shot" in place by the pneumatic method. When completed the tunnel sections, stations and portals will aggregate 90,000 cubic yards of concrete, reinforced with 2,500 tons of steel rods.

At the present time the two working faces are 5,200 feet apart, but it is expected that the tunnel will be opened within a year.

The work is being done under the general supervision of M. M. O'Shaughnessy, City Engineer of San Francisco, with L. T. McAfee as resident engineer in direct charge of the construction supervision. R. C. Hackley is in charge of the construction work for the contractor.

Foundation Drains With Special Reference to Twin Peaks Tunnel Project.

If allowed to accumulate behind the tunnel lining, ground water would exert considerable pressure, therefore means of draining off the water had to be devised, as the greatest volume of water would naturally be in soft ground, sand and sandy clay. Open drains could not be used in these sections, as the water would carry the material into the drains and create voids behind the lining, which is a dangerous condition to have existing. This led to the selection of a special porous tile drain, which would allow the water to percolate into the drain but would exclude all matter suspended in the water. Two lines of drain are provided, one on each side of the tunnel —through soft ground. Over 15,000 feet of drain will be used.

At the Eureka Valley Station, which is an underground structure, over 18,000 porous book tile were used to cover the sides and top of the station in order to carry the ground water to the tile drain. Only after several trials was there developed a suitable material and method of manufacture of the porous drain and book tile.

All of the porous tiling used in this work was manufactured by the Steiger Terra Cotta & Pottery Works of San Francisco.

Bausch & Lomb Optical Company Instruments.

In all tunnel work, the establishment of the line and grades is very important and the accuracy of this depends upon the instruments used. A Bausch & Lomb Theodolite was selected by the Department of Engineering and is being used by the surveyors in running the line of the Twin Peaks Tunnel.

Many improvements have been made or proposed by various manufacturers of engineering instruments in the past but probably none of such extreme importance to the engineer as those introduced by the Bausch & Lomb Optical Company in recent years. While many engineers are now appreciably aware of the possibilities now offered in the instruments made by this company, a word or two with regard to a few of the more important features obtainable in these instruments will no doubt be of interest to those who have not as yet been so fortunate as to possess or use them.

The interior system of focus, as applied to the Telescopes of both Transits and Levels, is especially worthy of consideration and trial. This method permits of hermetically sealing the Telescope, thus securing the optical system against dust, grit, and moisture, provides a tube of unvariable length, and a permanent relationship between the two optical elements; preserves a more perfect instrumental balance, and reduces the possibility of error in the line of collimation.

The variable power eyepiece applied to the erecting type of Telescope enables one to adapt his instrument at all times to the varying atmospheric conditions, thus contributing the greatest efficiency under each such condition. This facility is not obtainable in any other make of instrument.

The telescope bubbles are mounted in a way peculiar to this firm. When the vial mount is provided with adjusting facilities at one end only, strain is not only likely but very probable. The fixed shoulder at the end nearest the objective is an unyielding argument against high class construction. The Bausch & Lomb vial mount is guarded against compound flexure by spherical washers under each adjusting nut at both ends of the mount in conjunction with open bosses. The vial itself is held in position by spring tongues only, and sealed at the ends with cork in preference to plaster of paris, which offers resistance to normal expansion and interfers with field repairs.

The graduations are engine divided on **tarnish-proof** silver of extreme accuracy and greater durability than usual.

Many other desirable features are found in these instruments, which are produced by highly trained and skilled precision instrument makers under the personal supervision of Mr. Geo. N. Saegmuller. They are subject to very trying and exhaustive tests before leaving the factory, and are constructed particularly to withstand hard usage and yet give very accurate and precise results. Bausch & Lomb were awarded the Grand Prix at the P. P. I. E. on their engineering instruments, as well as on a number of other products.

Furnished All Rock and Sand.

The Niles Sand, Gravel & Rock Co. furnished all the rock and sand used in concreting the approaches, stations, floor and sides of the Twin Peaks Tunnel, amounting to hundreds of thousands of yards, where a strong and good quality concrete is required. As good concrete depends on the strength of the materials and the density of the mixture, Niles Sand, Gravel & Rock Co.'s products were selected by the engineers and contractors for this work. The use of gravel in a concrete mixture facilitates the pneumatic conveying of the concrete.

The Niles Sand, Gravel & Rock Co. own extensive beds at Niles, in the County of Alameda, where they operate the most modern plant on the Pacific Coast for producing concrete materials. All excavating, elevating crushing and washing machinery is electrically operated. A steam locomotive crane maintains a large storage of all materials to insure prompt deliveries in any quantity at all times. Thousands of yards of material are carried in storage, and the plant itself handles easily 1200 yards a day. All sizes of crushed gravel are produced, both fine and coarse sand and a "concrete mix" which contains both sand and gravel mixed in any proportion desired by

the customer. All materials are first segregated and thoroughly washed. Coming from a fresh water deposit they are free from salt.

Quality and Service has been the aim of this company from the start and a long list of satisfied customers is good proof of the ability of the Niles Sand, Gravel & Rock Co. to serve you promptly with the best in the line of concrete materials.

Western Rock Products Co.

In the selection of a hydrated lime for waterproofing the tunnel, Pyramid Hydrated Lime was deemed the best for all purposes.

It will be interesting to read the following extract from the specifications for this job:

"Specifications for the construction of a tunnel and appurtenances under Twin Peaks."

Page 28—"Hydrated Lime Waterproofing: All concrete used in any part of the tunnel section shall be waterproofed by mixing dry eight (8) pounds of hydrated lime with each one hundred (100) pounds of cement before placing in the concrete mixer."

"Do, page 17"—"Samples of all materials used or offered for use in connection with this work and information as to their sources must be furnished the Board of Public Works when required. * * * * All materials will be inspected, and any material rejected must, on demand, be immediately removed from the work by the contractor."

Pyramid Hydrated Lime has been selected by the contractors to fulfill the specifications above, and the Western Rock Products Company has furnished many tons of this material. Every load delivered is sampled and rigidly tested in the testing laboratory of the Department of Public Works, and has been found to pass every requirement for such material.

Pyramid Hydrate was extensively used throughout the construction of the exhibit palaces of the Panama-Pacific Exposition.

Underground Conduit Used at Twin Peaks Tunnel.

To date 80,000 lineal feet of 3 1-2-inch Orangeburg socket joint fibre conduit has been set in the lining of the Twin Peaks Tunnel. When completed, the tunnel will contain over 200,000 lineal feet, or 38 miles of fibre conduit.

This duct is being furnished by Pierson, Roeding & Company of San Francisco, agents for the manufacturers, the Fibre Conduit Company of Orangeburg, New York.

In selecting the type of conduit to be used in the tunnel, strength of the duct, waterproof qualities and water tightness of the joints were considered of great importance, as the conduit is imbedded in the concrete lining of the tunnel. Other considerations were the smoothness of the interior, the perfect fit of the joints, and resistance to electrolysis.

As these qualities exist in Orangeburg fibre conduit, this conduit was specified as a type of conduit acceptable to the Engineering Department.

The use of Orangeburg fibre conduit is most advantageous to a contractor because of its light weight, ease, speed in laying and its indestructibility.

Orangeburg conduit is made of a wet pulp of wood fibre. It is wrapped in a minutely thin film upon a forming mandrel under pressure until the desired thickness of wall is obtained. The individual fibres become felted and form a solid homogeneous wall. It is then taken off the mandrel, the wet pulp structure is subjected to a drying process, after which it is placed in a vat of liquid compound. This compound is a preservative, and is also insulating and waterproofing. It thoroughly permeates the entire structure so that after treatment the wall of the conduit when cut presents a strong resemblance to hard rubber. The ends are then cut in a lathe to make a socket joint, sleeve joint or screw joint, which ever is desired.

One of the great advantages of fibre conduit is its proof against acids, alkalis, and other corrosive substances, and is used in a great many instances where metal or other materials would not stand up.

The electrical advantages of Orangeburg fibre conduit are quite an asset. The 1-4-inch wall material will stand an average of 30,000 volts dry puncture, and after immersion in water 48 hours before test, will average approximately 23,000 volts.

There are a great number of installations of Orangeburg fibre conduit on the Pacific Coast, and in most cases the material is laid in concrete, but this is not absolutely necessary. As a recent instance, 3 1-2-inch screw joint was taken up from a part of this city where it had been buried under one of the heaviest traversed railroad crossings over fifteen years without any covering whatsoever, and found to be in as good condition as when it was first installed.

The small amount of breakage in shipping and handling Orangeburg fibre conduit is also a great asset. In a recent instance, 25,000 feet was shipped to Manchester, England, in bulk, not being crated in any manner. This conduit was handled seven times between the factory at Orangeburg, New York, and the destination, Manchester, England, and but a total of five pieces were damaged, or approximately one-tenth of 1 per cent of the entire consignment, and this was all retooled by a special lathe that is furnished by the company to retool the conduit on the ground, so practically no loss need be considered in using Orangeburg fibre conduit.

R. C. Storrie & Company.

Great credit is due to R. C. Storrie and R. B Muir, the two members of this well known contracting firm who are building the Twin Peaks Tunnel. The work of this firm is familiar to the residents of San Francisco, as among the municipal works they have performed are the following:

High Pressure System, Auxiliary Water Supply—Section 44.

Drumm Street Sewer—Outlet Section.

Sansome Street Sewer.

Hunter's Point Sewer—Outlet Section.

Baker's Beach Sewer—Outlet Section.

Forty-eighth Avenue Sewer.

Mile Rock Sewer—Outlet and Tunnel Section.

Mr. Storrie, before coming to San Francisco, constructed sewers, waterworks, pavements and railroads throughout Texas and about New Orleans, Philadelphia, and Pensacola, Florida. Mr. Muir, who was educated as a civil engineer in Scotland, was in charge of bridge construction about Chicago for the Chicago and Northwestern Railroad and later for the Santa Fe Railroad, after which he assumed direction of the construction of two sections of the Boston subway.

Their previous work and experience is an assurance that the work of driving the Twin Peaks Tunnel will be successfully performed. They have completed over 50 per cent of the contract, having finished several of the most difficult sections.

Endless Movable Link Belt Conveyor Furnished by the General Machinery and Supply Co.

In the building of the Twin Peaks Tunnel, one of the things which had to be very carefully considered was the disposal of the earth taken out of the tunnel proper.

After considerable discussion, experimentation, and handling the material by teams, the Engineering Department of the General Machinery and Supply Company installed at or near the East Portal of the Twin Peaks Tunnel an Endless Movable Link Belt Conveyor, which we feel sure saved the contractors, Messrs. R. C. Storrie & Co., a considerable amount of time in handling the material in this way rather than by teams.

The Twin Peaks Tunnel is, as is generally known, a double bore, and in building the conveyor one bore of the tunnel was used for getting the material out and the other bore to return the empty cars.

In the first place, an open cut was made in the ground to the face of the hill. Then the tunnel, which is of concrete construction, was extended on into the cut to the face of the hill, except for two openings which were left for the cars to go through.

A platform was then built over the concrete tunnel proper, and the Movable Link Belt Conveyor installed as in the photograph, which gives a better idea of its operation than mere words can describe.

(See Illustration on Page 10.)

The conveyor works on an angle or incline of about 24 per cent, and the chain with its attachments is driven by an electric motor through the usual necessary gearing to obtain the proper speed.

We will say the conveyor is in operation. A car filled with earth comes by gravity down the south bore of the tunnel to the base of the conveyor, where its movement is arrested by a raised runner, until one of the attachment lugs in the chain comes around and catches hold of the rear axle of the car, thus starting up the incline. Having

reached the top of the incline the car is immediately released and two men run it to the point where the material is to be dumped. Then the car is switched back and is run down the return conveyor by gravity to the north bore of the tunnel, whence it returns to be again reloaded.

We cannot but feel that this single piece of machinery went at least a long way towards solving one of the many problems which confronted the builders of the Twin Peaks Tunnel.

Motor Trucks as Operated by the Western Motor Draying Company Prove Their Worth.

The disposal of the excavated material from the Twin Peaks Tunnel, as well as the delivery of the gravel, sand, cement and concrete in the tunnel has been successfully handled by the Western Motor Draying Company, 351 Noe street, San Francisco.

One hundred and twenty thousand (120,000) cubic yards of earth and clay were loaded from the open cut on the eastern end of the tunnel and delivered at the dumps, approximately four miles away, at the rate of one thousand (1,000) yards per day. Two large steam shovels working on two different benches load the five-yard motor trucks which operate continuously between the cut and dump both day and night. At the present time, the material is being brought out to a shaft near Eighteenth and Ord streets, where it is hoisted and placed in bunkers, there to be loaded into trucks.

The Western Motor Draying Company is prepared to contract for all classes of hauling, excavating and road work, having twenty five-yard trucks in continuous service, several of which are equipped for road oiling; also a large steam shovel capable of handling all classes of excavation work.

This company has also recently completed a section of the Municipal line on Church street, the work having been satisfactorily finished in record time.

Waterproofing of Twin Peaks Tunnel.

Maltho Damp-proof Paint, as manufactured by John L. Fox & Co., Monadnock Building, has been selected by the Department of Public Works as a material well adapted for the waterproofing of the sections of the Twin Peaks Tunnel constructed in open cut.

The material is being delivered at the tunnel in barrel lots, and two coats are applied by machine under a pressure of 200 pounds, thus forcing the paint into all voids.

The east end of the tunnel was all clear work, and no trouble was encountered by us in any way; as soon as the concrete forms were removed, and the outer surface cleaned of all loose scale and dirt, the paint was applied.

At the Laguna Honda Station, however, the work was more difficult, as the water seeping from the surrounding slopes into the excavation had to be overcome. In waterproofing the construction joints we used four-ply, 14-pound felt cemented together with our damp-proof paint.

During the last ten years our materials have been largely used throughout the City and State on all prominent buildings and constructions, and in all difficult cases as above it is applied under our personal supervision.

Maltho Damp-proof Paint contains only the highest grade of water resisting agents known to science. It penetrates the wall, permanently seals the pores, rendering them absolutely water-tight.

It dries with a rich black gloss and remains elastic and tacky indefinitely; it contains no particle of tar, or any injurious ingredients. It resists the action of alkali better than any other paint on the market today; it does not settle, therefore, needs no stirring; all the ingredients are perfectly amalgamated and will not separate. It is not a by-product, nor a cure-all; but it is made solely for damp-proofing, and of the best materials that can be obtained.

FLUORSPAR BREAKS RECORD.

Both Quantity Mined and Sold in 1915 Considerably Higher than in 1912, the Next Highest Year.

All records for the amount of domestic fluorspar mined and marketed in the United States were broken in 1915, when 136,941 short tons, valued at $764,475, were sold, compared with 95,116 short tons, valued at $570,041 in 1914. Compared with the next highest year, 1912, the output in 1915 represents an increase, according to the United States Geological Survey, of more than 20,000 tons, or nearly 18 per cent. As usual the bulk of the fluorspar produced was sold as gravel spar, the quantity in 1915 amounting to 114,151 short tons, or 83 per cent of the total.

Sales of fluorspar in 1915 were reported from five States—Illinois, Kentucky, New Hampshire, New Mexico, and Colorado. All showed increases over 1914 except Colorado, where there was a large proportional decrease.

Notwithstanding that the prices of many mineral products, including steel (the production of which practically controls the fluorspar output), increased during 1915, the value of fluorspar declined. The average price per ton for the whole country, considering all grades of fluorspar, was approximately $5.58 in 1915, as compared with $5.99 in 1914, a decrease of 41 cents a ton. It is interesting to note that in 1912, although the output was about 20,000 tons less than in 1915, the value of the product was $4,688 more than in 1915. This decline in value has been caused largely as a result of improvements in methods of milling, and in handling larger quantities of spar in the Illinois-Kentucky district. The decline in price from 1914 to 1915, however, has more significance. The damand for spar was unusually good and the competition from foreign spar very light, so that conditions were favorable for high prices. Some fluorspar may have been sold on contracts at low prices a long time in advance, but it is also believed that large producers voluntarily kept the price down to a small margin of profit in order to procure and hold for domestic spar eastern markets which have formerly been supplied largely by imported spar.

The imports of fluorspar have been steadily declining for a number of years. In 1915 there were imported into the United States for consumption 7,167 short tons, valued at $22,878, compared with 10,206 short tons, valued at $38,943 in 1914. The large falling off in imports in 1915 may, of course, be attributed in part to the interruptions to commerce caused by the war, as well as to depression in the mining industry in Great Britain, from which country most of our imports come. According to the prices reported, including the duty of $150 a ton but excluding freight charges, the average cost of imported spar to the consumer was $5.69 a ton compared with $4.89 for domestic gravel spar at the mines or mills. Even though domestic spar should be sold at the mines or mills at a price slightly lower than that of imported spar at the dock, an advantage in price would still be enjoyed by the imported spar at eastern steel plants, owing to less freight charges on account of a shorter haul. However, the the mechanically treated spar from Illinois and Kentucky is of a higher grade than foreign spar, and since fluorspar is of value chiefly according to its purity, purchasers find that the purer American spar is more efficient and consequently cheaper in the end.

The large amount of fluorspar sold in 1915 may be accounted for principally because of the great demand for steel It is estimated that about 80 per cent of the American fluorspar output, mainly in the form of Gravel spar, is consumed in the manufacture of basic open-hearth steel.

The report on fluorspar and cryolite in 1915 by Ernest F. Burchard will shortly be issued by the United States Geological Survey, at which time a copy may be obtained on application to the Director at Washington, D. C.

ATTORNEY GEO. J. STEIGER, JR. HONORED.

Lien Lawyer Selected As Instructor in Mechanics' and Material Men's Liens.

Geo. J. Steiger, Jr., an Attorney at Law and Notary Public with offices in the Monadnock Bldg., who makes a speciality of Mechanics' and Material Men's Liens, together, with his general practice of the law and building contracts, has been selected as an Instructor in the course of Mechanics' and Material Men's Liens, in the Pacific College of Law, in San Francisco, having a Faculty of over thirty practicing Attorneys and Judges.

The head quarters of the Pacific College of Law are also in the Monadnock Building.

Attorney Steiger is well known among the contractors and material men of San Francisco.

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Devoted to the Architectural, Building, Engineering and Industrial Activities of the Pacific Coast.

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STATE REVENUE.

Statement by John Francis Neylan, Chairman, State Board of Control.

The forecast of State revenues of 1916 published by the State Board of Equalization today is certainly most gratifying.

The publication of this statement of revenues, however, should not lead to the formulation of any schemes for increased appropriations or new project expenditures.

The general tax levy bill provides $18,060,000 for the fiscal year, covering all fixed changes and appropriations. The Board of Equalization's forecast shows a revenue of $20,227,635.18 or a surplus of $2,167,625.

This surplus of revenue over the expenditures, to which the State is already committed, for the present fiscal period is just exactly the surplus to which the State Board of Control has been looking forward to supplement the surplus already in the State Treasury.

This surplus we believe should be brought up to a total of not less than $5,000,000 and kept at that point for two very improtant reasons.

In the first place the present State tax system depends for its efficacy upon the continued prosperity of public utility corporations. If they should have a bad year it is entirely conceivable that the State's revenue would suffer a shrinkage between sessions of the Legislature, and it would be only common sense to have on hand a surplus of $2,500,000 to meet such an emergency.

The second important reason is that at all times, but particularly in trouble periods like the present when no one can tell from day to day what is going to happen, the State should have on hand an additional surplus of $2,500,000 or $3,000,000 to meet general emergencies.

The State's finances today are in better condition than at any time in her history. As opposed to a deficit of $261,000 in the State Treasury in 1910 she has in her Treasury at the present time a surplus of $4,000,000.

With the revenues forecasted by the Board of Equalization this surplus will be increased to approximately $6,000,000, but a leaway must be allowed for possible shrinkage on estimates and items which might have been unconsidered; at any rate, the outlook is for an increase of the surplus in the State Treasury to the sum of $5,000,000.

This surplus should be kept there, not as a target for new projcets or a temptation to excessive appropriation, but as an intelligent and business-like safeguard for the public business.

The 1915 session of the Legislature established a record in holding down appropriations to an increase of only 4 3-10% over the preceeding biennial period. The average increae each two years prior to 1911 was 21%. Even the record of 1915 should be excelled at the 1917 session of the Legislature.

In the management of her business affairs the State of California has shown the way to the other States of the Union. To maintain this record we must show that we have the good sense and business judgment not to appropriate and expend her cash surplus just because we have it.

OIL AFTER THE WAR.

NEW YORK—In the opinion of the best posted men in the oil industry, the termination of the war will have a stimulating effect on the American lubricating business instead of a detrimental influence, as it is pointed out that it will open up to the markets in this country the Teutonic fields, which are large consumers of our products. These fields include such countries as Austria-Hungary, Germany, Greece and Turkey. It is also true that it will open up competition, but it is natural to suppose that it will take the Russian and Austrian sources of supply some little time to recover their normal competitive conditions. As one leading authority said: "It is only fair to assume that the demand of the American markets for a year or more will be greater than during the war."

From a statement it appears that the Standard Oil Co. of New York's subsidiary, the Standard Transportation Co., is now building six large tankers that will be placed in the Far Eastern service. Two of these boats will be completed in the next six weeks and will start carrying oil cargoes immediately. The transportation company, which has been reaping earnings, it is said, of more than 200 per cent on its capital stock—$15,000,000—will hold its annual meeting June 1. It is unable to learn whether the company will issue a financial statement.

It is explained that the Standard Oil Co. of New York, which has been chiefly handicapped by its shortage of tonnage, despite the fact that its ships total an aggregate tonnage of 200,000, will earn far more, it is said by those following the affairs of the company, than it did in 1915, when its profits amounted to $15,000,000. The 1915 report compared with the one of 1914 showed a gain of almost 50 per cent, but 1915 was only slightly above the earnings of 1913.

Advices from California state that three new refineries have been started since the beginning of the year by independents. The latest to start is the Atlas plant belonging to Charles Hall and just leased by the Wilshire Oil Co. It has been shut down since the Union surrendered its lease the first of the year. Two casinghead gasoline plants have started since the first of the year—the Rancho La Brea and the La Habra. The Puente plant is being enlarged, so are others. The Standard's plant at Newhall has also started since January 1st.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 2 story and base, frame, $15,000. Architect, J. C. Bateman, Balboa Bldg., S. F. Owner, R. O'Connor. Location, northwest corner of Castro and 24th streets. Will contain four stores on the first floor and eight modern two and three room apartments on the upper floors. Interior finish pine and elm with some hardwood floors. Central heating system and hot water system. Wall beds. Composition floors in bath rooms. Marble and tile entrance. Exterior covered with cement plaster. Plans being prepared.

SAN FRANCISCO—Apartment house and stores, 2 story and base, frame. Cost not stated. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, Mrs. Gerdes. Location, Mission near 19th street Will contain stores on the first floor and a number of two and three room apartments above. Interior finish pine with some white enamel. Hardwood floors. Wall beds. Patent store fronts and marble bases. Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Apartment house alteration, 2 story and base, frame. Cost not stated. Architect, J. Henry Boehrer, Delger Bldg., Oakland. Owner, Thomas P. Rose. Location, southwest corner Shattuck and Woolsey. Work will consist of interior and exterior alterations, plumbing, painting, plastering, electric work and carpentry work. There will be a total of 14 rooms arranged in two and three room suites. Exterior covered with cement plaster. Plans complete and figures being taken.

BERKELEY, ALAMEDA CO., CAL.—Apartment houses, 2, 3 story and base frame or brick. Cost not stated. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, O. G. Smith. Location, Ashby near College. Each building will contain two stores and eight apartments of three rooms. Interior finish pine, elm panels and white enamel. Some hardwood floors. Wall beds. Patent store fronts and marble bases. Bath rooms tile. Exterior covered with cement plaster or pressed brick Plans being prepared.

FRESNO, FRESNO CO., CAL—Apartment house alterations, 2 story, frame. Cost not stated. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owner, Mrs. Lotta R. Crone. Location, Calaveras and I streets. Work will consist of interior and exterior alterations and will include plumbing, painting, plastering, electric work and carpentry. Wall beds. Plans being prepared.

LONG BEACH, LOS ANGELES CO. CAL.—Apartment house, 4 story and base, brick, $10,000. Architect, F. L. Lindsay, First National Bank Bldg., Long Beach. Owner, D. W. Neet. Location, Magnolia avenue between Ocean and Broadway, covering an area of 50 by 96 feet. Will contain a total of 96 rooms arranged in suites of two and three rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $11,000. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, George C Maile. Contractor, L. A. Hinsen, 186 Jessie street, S. F. Contract price, $11,000.

BANKS

Contracts Awarded.

LEWISTON, MONTANA—Bank and offices, 6 story and base. Class A construction, $250,000. Architects, Link & Hair, Helena, Mont. Owners, Bank of Ferguson County. Contractors, Sound Construction and Engineering Co., Immigration Bldg., Seattle, Wash. Contract price, $250,000.

BONDS

HANFORD, KINGS CO., CAL.—The Trustees of the Hanford Grammar School have decided to call an election to vote on the question of issuing bonds of $40,000 for additions to the present schools and the purchase of additional ground for playgrounds.

FOLSOM, SACRAMENTO CO., CAL.—Bonds of $20,000 will probably be voted here shortly. Supervisor John Russi has had conference with District Attorney Bradford on the proposition of installing a sewerage system in Folsom. It will cost $20,000 to put in a main sewer of the capacity required It is probable that a date for the bond election will be set in the near future

ALAMEDA, ALAMEDA CO., CAL.—A recommendation will be made to the City Council within the next few days to call a special election to vote bonds of $50,000 to enable the School Board to carry out its school building program.

BAKERSFIELD, KERN CO., CAL.—Half a million dollars' worth of State Highway bonds have been sold to Blyth, Witter & Company at par value plus a premium of $35,000 and accrued interest. This is the fourth half-million dollar block of highway bonds to be sold by Kern County.

SAN ANSELMO, MARIN CO., CAL The Town Trustees of San Anselmo are planning a $50,000 bond issue for good roads. It is the intention of the Board to use $10,000 for a reinforced concrete bridge at Yolanda Station and the balance, $40,000, will be utilized to bituminize the State Highway from the Ross line to the westerly limits of San Rafael, San Anselmo avenue from Bolinas avenue, from the town hall to Yalanda and thence along Willow avenue to the town line

AUBURN, PLACER CO., CAL.—The $25,000 bond election for the paving of the intersections and terminals of streets abutting on the main streets leading from the Nevada street station to the Railroad street station, will be held in this city on June 27th. The ordinance calling the election has been passed to the second reading by the Trustees.

LOS ANGELES, CAL The election held in this city last week to vote bonds of $1,800,000 for sewage treatment, was defeated by a vote of 24,448 for the issue and 28,712 against.

SUTTER CITY, SUTTER CO., CAL.—A bond issue to build a modern school is being planned in this city. It is proposed to vote bonds of $15,000.

LINDSAY, TULARE CO., CAL.—Lindsay proved almost unanimous in the bond election, by casting 191 votes for to 15 against the $1,400,000 bond issue to bring water from the Kaweah basin to irrigate 45,000 acres of citrus lands. It is hoped to have the water for use by the summer of 1917.

GRIDLEY, BUTTE CO., CAL.—The $5,500 municipal park bond issue held last week carried.

SANTA BARBARA, SANTA BARBARA CO., CAL.—A movement has been started to call a bond issue to vote bonds of $250,000 with which to finance the construction of a new high school..

OROVILLE, BUTTE CO., CAL.—Although a majority favored the organization of the Thermalito Irrigation District, the project was defeated at a recent election because twelve votes were lacking to make up the required two-thirds majority. The vote stood 62 in favor and 50 against.

It was proposed to bring water from the west branch of the Feather River and to build two large storage reservoirs in the mountains in order to insure a supply of water in summer.

The district project asked for a 250,000 bond issue. It was proposed to take over first the system of the Oro Electric Corporation, repairing it sufficiently to give a good service until the completion of the new system.

CALINGA, FRESNO CO., CAL.—As a portion of a proposed bond issue, the city is planning to issue bonds in the sum of 14,000 for an auxiliary fire-fighting system, consisting of 200,000 gallon storage reservoir, turbine pump, pipe lines, etc.

PLACENTIA, ORANGE CO., CAL.—The State Board of Control has purchased the $30,000 bond issue recently voted by the Placentia-Richfield School District.

HANFORD, KINGS CO., CAL.—July 7, 1916, has been advertised as the date for holding an election to vote bonds in the sum of $40,000 to finance the erection of new school buildings.

ATASCADERO, SAN LUIS OBISPO CO., CAL. The $15,000 school bonds voted by the residents of the colony have been sold for $16,500 and work on the construction of the new building will commence shortly. The plans

were prepared by the architect of the Colony Holding Corporation.

COVINA, LOS ANGELES CO., CAL.—Torrance-Marshall Company has purchased the 105,000 water system bonds at a premium of 3.813. Engineer F. E. Trask will be in charge of the work.

BRIDGES, DAMS AND HARBOR WORK

YREKA, SISKIYOU CO., CAL. — Bridge, suspension type. Cost not stated. Engineer, County Surveyor, Yreka. Owners, Siskiyou County. Plans and specifications prepared by the County Surveyor for the construction of a suspension bridge over the Klamath River on the Quigley road, No. 174, were approved by the Supervisors at their last meeting and bids for the construction of the structure were ordered advertised to close July 3rd at 10 a. m. Plans and specifications may be had from the County Clerk.

UKIAH, HUMBOLDT CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. At the last meeting of the County Supervisors plans and specifications as furnished by the State Highway Commission were adopted for the construction of a concrete bridge across McNab Creek, bids to be received up to 2 p. m. of July 5th. Plans and specifications and estimates for the proposed new work at Prather Gulch in Anderson Valley were adopted and bids advertised for 2 p. m. of July 5th. Plans and specifications for the construction of the new picket fence along the new Salmon Creek road were also adopted and bids ordered advertised. Plans may be had from the County Clerk.

PLACERVILLE, EL DORADO CO., CAL.—Bridge, reinforced concrete and steel, $10,000. Engineer, A. V. Saph, Berkeley. Owners, El Dorado County. The Board of Supervisors has authorized Engineer A. V. Saph to prepare plans for a $10,000 bridge to span the American River at Coloma at the site of the old foot bridge. This action was taken after the Supervisors had been advised that a good bridge can be built for that figure. Bids will be called for on approval of the plans.

VISALIA, TULARE CO., CAL. — Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Visalia. Owners, Tulare County. Bids will be received on July 5th at 2 p. m. for the construction of a reinforced concrete bridge over the canal in Section 35, Township 20 south, Range 21 east, Mt. Diablo base and meridian, about one mile north of Octol Station, in the Second Supervisorial District.

SEATTLE, WASH.—Dock extension Cost as follows. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids opened by the Port of Seattle Commission for the construction of an extension to the Spokane Street Dock, transit shed, substructure, etc., resulted as follows: Creosoted Piling, 68,750 feet—J. M. Colman Co., $23,313.80; Pacific Creosote Co., $23,313.80. The Hofius Steel and Equipment Co. submitted the lowest bid at $11,007 for the locomotive crane. J. M. Clapp submitted the low bid at $11,100 for the riprap work. All Bids were taken under advisement.

VENTURA, VENTURA CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received on June 28th at 2 p. m. for the construction of a reinforced concrete trestle bridge across the east channel of the Sespe Creek about one-half mile west of Fillmore, Ventura County, California. The work consists of the construction of a reinforced concrete trestle bridge with timber deck, consisting of 15 spans each 30 feet long, and one reinforced concrete abutment.

AUBURN, PLACER CO., CAL. — Bridges, reinforced concrete. Cost not stated. Engineer, County Surveyor, Auburn. Owners, Placer County. County Surveyor Conroy's plan for a 94-foot bridge across the ravine on the Dairy Farm road has been accepted by the Supervisors. He was also ordered to present plans and specifications for a bridge across the Auburn Ravine at Virginiatown during the July meeting of the Supervisors.

VENICE, LOS ANGELES CO., CAL.—Bulkhead, reinforced concrete, $100,000. Engineer, City Engineer, Venice. Owners, City of Venice. Bids will be called at once for the construction of a bulkhead along the beach from Salt Air to Vista street. The proposed work is to be done by the Schleuter interlocking slab construction method.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Bridge, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisors up to 10 a. m. of July 3rd for the construction of a reinforced concrete bridge across Gaviota Creek at Station No. 148-45 (Gaviota Gorge) on the line of the State highway in the Fourth Road District, in accordance with plans and specifications on file at the office of the County Clerk. Certified check for 10 per cent required. Plans and specifications can be obtained from the Surveyor upon a deposit of $10. C. A. Hunt is the County Clerk and ex-officio Clerk of the Board.

LOS ANGELES, CAL.—Bridge, reinforced concrete, $50,000. Engineer, Chief Engineer Santa Fe R. R. Co., L. A. Owners, Santa Fe Railroad Co. The Santa Fe Railway Co. is planning the construction of a bridge across Trabuco Creek near San Juan Capistrano to replace a bridge destroyed by high water. The work proposed involves the erection of 2 90-foot girder spans, the filling of 680 feet of trestle, and the construction of concrete abutments and one concrete pier. A 650-foot pile and timber dike will also be built to ments have not yet been formally auprotect the structure. The improvethorized.

Contracts Awarded

STOCKTON, SAN JOAQUIN CO., CAL.—Bridge, wooden trestle, $1,330. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Contractor, M. B. White, 722 North San Joaquin street, Stockton. Contract price, $1,330.

UKIAH, MENDOCINO CO., CAL.—Bridge, reinforced concrete. Cost not stated. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. Contractor, Al. Carlson, Ukiah. Contract price not stated.

MODESTO, STANISLAUS CO., CAL.—Bridge, reinforced concrete, $109,498. Engineers, Consulting Engineers Leonard & Day, Rialto Bldg., S. F., and County Surveyor, Modesto. Owners, Stanislaus County. Contractor, C. E. Cotton, 16 California street, S. F. Contract price, $109,498.

SANTA ROSA, SONOMA CO., CAL.—Bridge, pile bent type, $2,509.40. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma County. Contractors, Call Construction Co., Santa Rosa Contract price, $2,509.40.

CHURCHES

SANTA BARBARA, SANTA BARBARA CO., CAL.—Church and parish house, 2 story and base, brick, $100,000. Architect, A. C. Martin, Higgins Bldg., L. A. Owners, Roman Catholic Church. Location, State and Figueroa streets, covering an area of 55 by 145 feet. Will contain a main auditorium, Sunday school rooms and pastor's study. Interior finish pine, hardwood and ornamental plaster. Art glass windows. Central heating system. Parish house will contain fourteen fourteen rooms, baths and study. Furnace heat. Exterior faced with cement plaster trimmed with pressed brick and terra cotta. Plans being prepared.

FACTORIES AND WAREHOUSES

OAKLAND, CAL.—Factory, 1 and 3 story and base, frame. Cost not stated. Architect, none. Plans are now being figured for the first unit of a large factory group to be erected on the Canal Tide Lands. The building will cover a considerable area. Exterior will be covered with corrugated iron. Further mention will be made of the work.

SAN MATEO, SAN MATEO CO., CAL.—Motion picture studio, 1 and 2 story and base, frame, $25,000. Architect, Will H. Toepke, 46 Kearny street, S. F. Owner, Hobart Bosworth. Location, Corporation Yard. Will contain offices, work rooms and studio. Interior finish pine and redwood. Exterior cement plaster. Preliminary plans being prepared.

FIRE HOUSES AND JAILS

Contracts Awarded.

REDWOOD CITY, SAN MATEO CO., CAL.—Jail, 2 story and base, reinforced concrete, $45,000. Architect, Will H. Toepke, 45 Kearny street, S. F. Owners, San Mateo County. Contractors, Newsom & Henning, Sharon Bldg., S. F. Contract price, $45,000.

FLATS

BERKELEY, ALAMEDA CO., CAL.—Flats and office, 2 story and base, frame, $10,000. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owner, Dr. Richardson. Location, College avenue and Alcatraz. Will contain the doctor's office and a large flat. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Central heating system and hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

BERKELEY, ALAMEDA CO., CAL.—Flats, 2 story and base, frame. Cost not stated. Architect, none. Owner, E. D. Miller, 1405 Fairveiw, Berkeley. Location, 3360 King street. Will contain two flats of five and six rooms. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath

rooms tile. Automatic water heaters. Exterior covered with cement plaster Plans complete and work to be done by Day Labor.

GOVERNMENT WORK & SUPPLIES

Puget Sound, Wash., Dredging.

Bids for dredging, etc., in Puget Sound-Lake Washington locks, were received at the U. S. engineer office, Seattle, Wash., as follows:

Item 1, dredging 33,000 yds: 2, remove 560 round piles: 3, remove 1,500 sheet piles.

Erickson Construction Co., Seattle, Wash., item 1, 32c yd: 2, $1.50 ea: 3, $1.75 ea: total, $11,025.

Butler & Perry, Seattle, Wash., item 1, 19.5c yd: 2, $1.10 ea: 3, $5.10 ea: total, $26,281.

Reclamation Service, Earthwork.

Abstract of bids for earthwork, Fort Laramie Canal, North Platte, project, Fort Laramie unit, opened at Fort Laramie, Wyo.:

Bid 1, J. E. Hilton, Billings, Mont.

2, Reynolds-Ely Construction Co., Springville, Utah.

3, MacArthur Bros. Co., New York City.

4, Winston Bros. Co., Minneapolis, Minn.

5, Fred M. Crane Co., Omaha, Nebr.

Schedule 1.

124,000 cu yds class 1—Bid 1, 18c: 2, 13c: 3, 19c: 4, 14c: 5, 17.4c.

73,000 cu yds class 2—Bid 1, 18c: 2, 30c: 3, 19c: 4, 40c: 5, 17.4c.

500 cu yds class 3—Bid 1, 80c: 2, 60c: 3, 19c: 4, $1: 5, 17.4c.

35,000 sta yds overhaul—Bid 1, 2c: 2, 2c: 3, 2c: 4, 2c: 5, 2c.

Total—Bid 1, $36,560: 2, $39,020: 3, $38,225: 4, $47,760: 5, $35,065.

Schedule 2.

235,000 cu yds class 1—Bid 1, 13c: 2, 13c: 3, 14c: 4, 12c: 5, 17.4c.

200 cu yds class 2—Bid 1, 30c: 2, 30c: 3, 14c: 4, 40c: 5, 17.4c.

200 cu yds class 3—Bid 1, 80c: 2, 60c: 3, 14c: 4, 50c: 5, 17.4c.

40,000 sta yds overhaul—Bid 1, 2c: 2, 2c: 3, 2c: 4, 2c: 5, 2c.

Total—Bid 1, $31,570: 2, $31,530: 3, $33,756: 4, $29,180: 5, $41,759.

Schedule 3.

176,000 cu yds class 1—Bid 1, 14c: 2, 14c: 3, 17c: 4, 15c: 5, 17.4c.

13,600 cu yds class 2—Bid 1, 14c: 2, 3 c: 3, 17c: 4, 33c: 5, 17.4c.

200 cu yds class 3—Bid 1, 80c: 2, 60c: 3, 17c: 4, 50c: 5, 17.4c.

100,000 sta yds overhaul—Bid 1, 2c: 2, 2c: 3, 2c: 4, 2c: 5, 2c.

Total—Bid 1, $28,620: 2, $30,660: 3, $34,164: 4, $32,790: 5, $34,920.

Schedule 4.

147,000 cu yds class 1—Bid 1, 11c: 2, 14c: 3, 18c: 4, 15.25c: 5, 17.4c.

24,000 cu yds class 2—Bid 1, 11c: 2, 30c: 3, 18c: 4, 33c: 5, 17.4c.

200 cu yds class 3—Bid 1, 80c: 2, 60c: 3, 18c: 4, 50c: 5, 17.4c.

80,000 sta yds overhaul—Bid 1, 2c: 2, 2c: 3, 2c: 4, 2c: 5, 2c.

Total—Bid 1, $25,700: 2, $29,500: 3, $34,416: 4, $32,037: 5, $31,388.

Grand Total—Bid 1, $122,450: 2 $130,710: 3, $138,561: 4, $141,767: 5, $113,134.

Mare Island, Cal., Bucket Dredge.

The following bid was received by the chief of the bureau of yards and docks, Navy Department, Washington, D. C., for furnishing a gravity swing 1-ton bucket dredge for delivery at the Mare Island yard.

Item 1, electric dredge, complete exclusive of bucket, transformers, cable, pumps, switchboard, etc.: 2, price for furnishing and installing on dredge pump, pump motor, and wiring between switchboard and pump motor: 3, price for furnishing and installing on dredge cable reel and cable: 4 price for 2 large transformers: 5, price for steam dredge, complete ready for operation, exclusive of bucket, etc.: 6, deduct from item 1 or 5 should the government furnish the necessary towing facilities from the construction site to the navy yard Mare Island

Marion Steam Shovel Co., Marion, Ohio, item 1 $17,100, 33 weeks: 2, $750: 3, $450: 4, $650: 5, $15,600, 27 weeks: 6 $650: 7, $750: 8, $1,500.

Keyport, Wash., Building.

The contract for the construction of buildings at the naval radio station Keyport, Wash., has been awarded to the Martin & Dugan Construction Co. Northern Bank Building, Seattle Wash., at $7,250.

Cordova, Alaska, Radio Buildings.

The bid of Christopher Kuppler, of 1309 7th avenue North, Seattle, Wash., has been accepted for the construction of radio buildings at Cordova, Alaska

Wenatchee, Wash., Post Office.

The contract for the construction, complete, of the U. S. post office at Wenatchee, Wash., using light-colored limestone for all exterior stonework, except where granite is required, has been awarded to Bird & Hobson, Wenatchee, Wash., at $78,618: time, 14 months.

Durango, Colo., Post Office.

All bids received by the supervising architect, Treasury Department, Washington, D. C., May 18, for the construction, complete, of the U. S. post office at Durango, Colo., have been rejected.

GOVERNMENT WORK & SUPPLIES

VALLEJO, SOLANO CO., CAL. — Lodge hall and stores, 4 story, brick and steel. $110,000. Architect, John Davis Hatch, Humboldt Bank Bldg., S F. Owners, Vellejo Masonic Hall Association. Location, northwest Marin and Virginia streets, covering an area of 100 by 100 feet. Will contain four stores and an auditorium. Living quarters on the third floor. Exterior faced with pressed brick and terra cotta. Plans being prepared.

SACRAMENTO, CAL.—Lodge hall, 4 story and base. Class A construction $56,841. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Sacramento Scottish Rite Hall Association. A complete list of the bids received for this work appears under the heading of Sacramento and Northern California in this issue.

HOSPITALS

SAN FRANCISCO—Hospital ward, 2 story and base, reinforced concrete. Cost not stated. Architect, Constructing Quartermaster's Department, Fort Mason. Owners, United States Government. A complete list of the bids received for the construction of the dispensary ward at the Letterman General Hospital appears under the heading of San Francisco in this issue.

IRRIGATION PROJECTS

Contracts Awarded.

EAST LAS VEGAS, NEW MEXICO—Irrigation project, $400,000. Engineer's name not given. Owners, Las Vegas Irrigation District. Contractors, Robert C. Storrie Co., 2377 Market street, S. F. Contract price, $400,000.

POWER IMPROVEMENTS

LAS VEGAS, NEW MEXICO—Water system extension, $40,000. Engineer, Chief Engineer, Salt Lake Railroad, L. A. Owners, Salt Lake Railroad Co. The Salt Lake Railroad Co. is planning to expend about $40,000 additional for water supply pipe lines and reservoirs. A wire-bound, wooden stave pipe, with concrete casing will be installed at Faust. It will be about 2½ miles long. At the Lofgreen station a 150,000-gallon reservoir and several thousand feet of pipe will be installed. There will also be a large reservoir built at Green Springs, and at Las Vegas additional water accommodations and improvements will be made at Las Vegas.

ABERDEEN, WASH.—Water system Cost as folows. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners. City of Aberdeen. Preliminary tabulation of the bids opened by the City Council for the construction of the Wishakah waterworks system, show the the Harrington-Peters Co., Oriental Bldg., Seattle, low bidders at about $225,000, with the Oregon Engineering and Construction Co., of Portland, second, and Holt & Jeffery, Seattle, third. Award of the contract will be made shortly.

POST OFFICES

PORTLAND, ORE. — Post office, 4 story and base. Class A construction $1,000,000. Architect, Louis P. Hobart Crocker Bldg., S. F. Owners, United States Government. Bids will be opened on August 7th at 3 p. m., eastern time, for the general construction and for the mechanical equipment for the new federal building at Portland. An official proposal appears in another column of this issue.

RESIDENCES

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $4,000 each. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name withheld. Location, Merritt Terrace. Each house will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 2 story and base, frame, $4,000. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places

Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owners, Finance and Realty Development Co., Phelan Bldg., S. F. Location, north Anza east of 5th avenue. Each house will contain seven rooms, bath and basement garage. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Lahor.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $3,000 each. Architect, none. Owners, Johnson & Johnson, 844 14th street, S. F. Location, east 22nd avenue south of Clement. Each house will contain six rooms, bath and basement garage. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors throughout. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residence, 2 story and base, frame, $5,000. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Large sun porch. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Residences, 4, 2 story and base, frame, $10,000 each. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scobel, 363 14th avenue, S. F. Location, northeast Presidio and Jackson. Each house will contain ten rooms, three baths and separate garage. Interiors will be finished in hardwood and white enamel with hardwood floors throughout. There will be a central heating system, probably hot water, hot water circulating system and open fire places. Mantels tile and marble. Bath rooms tile and equipped with showers. Exteriors covered with cement plaster. Clay tile roof. Plans complete and woork to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1½ story and base, frame, $4,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, G Smith. Location, Thousand Oaks. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, H. Goranson, 431 48th street, Oakland. Location, east Laguna south of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Mathew Klein, 6511 Raymond street, Oakland. Location, east El Centro west of Clark. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

PIEDMONT, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, E. W. Woodward, 341 13th street, Oakland. Location, east San Carlos avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, C. Roth, 2117 Pacific avenue, Alameda. Location, 2263 Encinal avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $1,600 each. Architect, none. Owner, C. W. Glantz, 1932 88th avenue, Oakland. Location, 86th and 87th avenues north of Holly. Each house will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

ALAMEDA, ALAMEDA CO., CAL.—Residences, 40, 1 story and base, frame, $2,500 each. Architect's name not given. Owner, Dr. Chauncey P. Pond, 1518 Encinal avenue, Alameda. Location, Sharp property in East Alameda. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster, rustic and shingles. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,250. Architect, none. Owner, Edward Grandin, 1533 Prince street, Berkeley. Location, west Adeline north of 56th. Will contain five rooms and bath. Interior finish pine with white enamel in the bed rooms. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residences, 2, 1 story and base, frame, $2,500 each. Architect, Alvin J. Stern, 306 14th street, Oakland. Owner, Mrs. Rogers. Location, east 28th street and 10th avenue. Each house will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, west Peralta avenue near Delaware. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $4,000. Architect, F. Holberg Reimers 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, Buena Vista avenue. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors, furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

SAN FRANCISCO—Residence, 2 and 3 story and base, brick and frame, $40,000. Architect, Louis Upton, 111 Ellis street, S. F. Owner, J. J. Lyman. Location, Vallejo near Lyons. Will contain fourteen rooms, several baths, sun porches and basement garage. Interior finish hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Central heating system, oil burning plant, vacuum cleaning and hot water supply. Bath rooms tile and equipped with showers. Exterior faced with pressed brick. Plans being prepared.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, W. B. Phillips, 409 Cypress avenue, Sacramento. Location, Allen avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

FRESNO, FRESNO CO., CAL.—Residence, 2 story and base, frame, $2,750 Architect, none. Owner, Mrs. E. M. Roth, Fresno. Location, East Fresno. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

REDLANDS, SAN BERNARDINO CO., CAL.—Residence, 2 story and base, hollow tile, $25,000. Architect, Elmer Grey, Wright and Callender Bldg., L. A. Owner's name withheld. Will contain sixteen rooms and five baths. Interior finish hardwood and white enamel. Hardwood floors throughout. Central heating system, oil burning plant and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior cov-

ered with cement plaster. Plans being prepared.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile. Cost not stated. Architects, Marten & Van Pelt, Chamber of Commerce Bldg., Pasadena. Owner, George A. Weber. Will contain fifteen rooms, several baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system. Bath rooms tile. Vacuum cleaning, hot water circulating system and open fire places. Mantels tile and brick. Exterior faced with cement plaster. Plans being prepared.

SCHOOLS

SAN FRANCISCO—School, 1½ story and base, frame and plaster, $40,000. Architect, Julia Morgan, Merchants' Exchange Bldg., S. F. Owner, Mrs. Katherine D. Burke. Location, Jackson between Broderick and Baker. Designed as a private school for girls. Will contain class rooms and a large auditorium, office and gymnasium. Interior finish hardwood and pine. Central heating system and hot water supply. Vacuum cleaning. Exterior covered with cement plaster. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick and concrete. Cost not stated. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. All bids for the construction of the Lincoln School have been rejected for the second time. Plans will be revised and new figures called. Further mention will be made of the work.

BERKELEY, ALAMEDA CO., CAL.—College buildings, 2, 2 story and base, brick and steel. Cost not stated. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be opened on July 12th at 9 a. m. for excavating and concrete work, exterior cement finish, roofing, and sheet metal work, interior furring, lathing and plastering, carpentry and cabinet work, marble and terrazzo, plumbing, heating and ventilating and electric work on Hilgard Hall and on the Chemistry building and for the elevator work in the Chemistry building, and for the accoustic felt on both buildings.

BERKELEY, ALAMEDA CO., CAL.—Mechanical equipment for power house. Cost as follows. Engineer's name not given. Owners, Regents of the University of California. Only two bids were received by the Regents of the University of California on June 12th for furnishing mechanical equipment for the University power house. Hunt Mirk & Co. bid $90,632 on the plans and specifications furnished by the Regents and $80,283 on their plans and specifications. C. C. Moore & Co. bid $85,773 on the first proposition and $60,795 on the second. All bids were taken under advisement.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—School, 2 story and base, brick and concrete, $50,000. Architect, W. H. Weeks, 75 Post street, S. F. Owners, South San Francisco School District. Designed for a high school and will contain class rooms, auditorium, manual training and department for domestic science. Interior finish pine with maple floors. Central heating system and oil burning plant. Exterior faced with pressed brick. Plans being prepared.

JENNINGS, STANISLAUS CO., CAL.—School, 1 story, frame. Cost not stated. Architect, none. Owners, Jennings School District. Designed for a district school and will contain one room. Interior finish pine. Exterior shingles. Plans complete and figures being taken. Bids open on June 27th. For plans and specifications address J. M. Cochrane, Clerk, R. F. D. Route D, Box 157, Modesto.

OROSI, TULARE CO., CAL.—School, 1 story and base, brick, $20,000. Architect, E. J. Kump, Rowell Bldg., Fresno. Owners, Orosi School District. Will contain four class rooms and auditorium. Interior finish pine and maple floors. Central heating system. Exterior faced with pressed brick or cement plaster. Plans being prepared.

WASCO, ORE.—School, 2 story and base, brick, $25,000. Architects, Tourtellotte & Hummel, Rothchild Bldg., Portland. Owners, City of Wasco. Will cover an area of 80 by 131 feet and will contain a number of class rooms besides the auditorium. Interior finish pine and redwood with some maple floors. Central heating system. Exterior faced with pressed brick or cement plaster. Plans complete and figures being taken.

MILWAUKEE, ORE.—School, 1 story and base, hollow tile, $20,000. Architects, Claussen & Claussen, Macleay Bldg., Portland. Owners, City of Milwaukee. Will contain eight class rooms. Interior finish pine with some maple floors. Central heating system, probably steam heat with oil burning plant. Exterior faced with cement plaster. Plans being prepared.

BAKER CITY, ORE.—School, 2 story and base, brick and concrete. Cost as follows. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Baker City. Parker & Banfield, Baker City, presented the low figure for the general construction at $92,238; Fish & Bowen, Eugene, low on the plumbing at $8,226; J. F. Shea low on the heating at $17,058, and Miller & Halls low on the electric work at $4,185. Contracts will be awarded.

SAN FRANCISCO—Schools, etc. Class C construction. Cost not stated Architect's name not given. Owners, City and County of San Francisco. A large number of bids for City and County construction were opened at the last meeting of the Board of Public Works. A complete list of these bids will be found under the heading of San Francisco in this issue.

SAN FRANCISCO—Jail and school Class C construction. Cost not stated Architect's name not given. Owners, City and County of San Francisco. A complete list of the bids received for the construction of recent city and county work will be found under the heading of San Francisco in this issue.

Contracts Awarded.

BULLARD SCHOOL DISTRICT, FRESNO CO., CAL.—School and shop, 1 story, frame, $11,141. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Bullard School District. Contractor, Emmet R. Riggins, Fresno. Contract price, $11,441.

PETALUMA, SONOMA CO., CAL.—School alterations, frame, $1,890. Architect's name not given. Owners, City of Petaluma. Contractor, Samuel Rodd, Petaluma. Contract price, $1,890.

INGLEWOOD, LOS ANGELES CO., CAL.—School addition, 1 story, brick, $27,726.80. Architects, Marsh & Howard, 214 Broadway, L. A. Owners, Inglewood School District. Contractors, J. M. Boward & Son Co., Black Bldg., L. A. Contract price, $27,726.80.

SEWERS, STREET WORK & WATER SYSTEMS

FOWLER, FRESNO CO., CAL.—Street paving, $16,000. Engineer, City Engineer, Fowler. Owner, City of Fowler. The Fowler Trustees have decided to pave 8th street, which is the link in the State highway system. One-third will be paid by the city, one-third by the county and one-third by the Southern Pacific Railroad. Further mention will be made of this work when bids are called for.

SAN ANSELMO, MARIN CO., CAL.—Street improvements. Cost not stated. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. Bids will be opened on July 3rd at 8 p. m. for work authorized under the following resolutions: That the San Francisco Boulevard have a 6-inch, vitrified, ironstone pipe sewer constructed near the San Rafael and Olema road; also two lampholes. Also that the San Rafael and Olema road have a 6-inch, vitrified, ironstone pipe sewer constructed and two brick manholes.

LOS ANGELES, CAL.—Highway improvement. Cost as follows. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of July 3rd, 1916, for improving Section G of the Mint Canyon road. The roadway to be improved will be approximately 11.82 miles in length, and is estimated to cost 184,502, the part to be furnished by the county amounting to $87,888; that by the contractor totaling $91,614. The quantities will include 91,225 cubic yards excavation; 59,462 cubic feet shaping roadbed; 319 cubic yards hauling and placing concrete for culverts and headwalls, class A; 10,950 pounds steel; 138,783 square yards concrete pavement; 27,800 linear feet guard fence. The county will furnish 24,868 barrels of cement; 10,613 tons of sand; 22,382 tons of stone; 3,123 tons of screenings; 286 tons of hydrated lime; 1,652 barrels of oil, and 1,819,300 gallons of water.

OAKLAND, CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on June 29 for street work authorized under the following resolutions: That East 16th street from the southeast line of 55th avenue to the northwest line of 57th avenue, be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, and paved with oil macadam.

That the northeast portions of the half of Weld street be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, paved with oil macadam, and sidewalked with a cement sidewalk 5 feet wide. Bids close June 29th at 11 a. m.

Construct concrete culvert, pipe conduit be relaid, etc., also three brick storm water inlets with cast iron tops; pipe conduits, having internal diameters of 10 inches; also seven brick

manholes with cast iron tops be constructed in Foothill Boulevard, Church street and Beck street. Bids close 29th at 11 a. m. For further particulars address the City Clerk, City Hall, Oakland.

SACRAMENTO, CAL. — Street and sewer work. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. The City Commission has awarded the contract for the following sewer work to T. E. Clark: The improvement of 15th street, from the south line of B street to the north line of G street (except the intersections of 15th with C, D, E, and F streets) by removing and disposing of all surplus and refuse material; constructing concrete curb, concrete gutter, placing 6-inch cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; 3 concrete manholes, complete, with cast iron curbs and covers; reconstructing (3) concrete catchbasins; 6-inch, vitrified, ironstone sewer pipe drains; 8-inch, vitrified, ironstone sewer pipe drains; placing 174 linear feet of concrete protective covering over sewer pipe.

To Clark & Henery Construction Co., Ochsner Bldg., Sacramento, the improvement of 12th street, from the north line of Y street to the Lower Stockton road, by removing and disposing of all surplus and refuse material; constructing concrete curb, cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; concrete manholes, complete, with cast iron curbs and covers; reconstructing 4 concrete manholes; 6 and 8-inch, vitrified, ironstone sewer pipe drains; grading the roadway from the north line of Y street to a point 40 feet south of the south line of Cypress avenue and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick and an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick.

ONTARIO, SAN BERNARDINO CO., CAL.—Street improvement, $26,934. Engineer, City Engineer, Ontario. Owners, City of Ontario. Contractors, Heinhauer & yle, Watts. Contract price, $26,934.

RIVERSIDE, RIVERSIDE CO., CAL.—Highway improvement, $14,636. Engineer, County Surveyor, Riverside. Owners, Riverside County. Contractors, C. L. Hyde Construction Co., 954 3rd street, San Diego. Contract price, $14,636.

ALAMEDA, ALAMEDA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Alameda. Owners, City of Alameda. Specifications have again been adopted by the City Council for the paving of Central avenue from Fernside Boulevard to Fourth street, and the Clerk has been instructed to advertise for bids, which will be opened on July 5th. This is the third time bids for this work have been called for, those previously received having been rejected. Plans may be had from the City Clerk.

MARTINEZ, CONTRA COSTA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Bids will be opened on June 30th for furnishing of materials and labor and placing a wearing surface on Division No. 1 of the Tunnel Road, Contra Costa County, a distance of three miles and sixty feet. Also for furnishing material and labor and placing a wearing surface on Division No. 2 of the Tunnel Road, Contra Costa County, being a distance of seven miles and fourteen hundred feet.

RICHMOND, CONTRA COSTA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids have been readvertised by the City Council for the paving of a portion of San Pablo avenue. Bids close June 26th at 8:30 p. m. Plans may be had from the City Clerk at Richmond. The Municipal Improvement Co., to whom the contract was originally awarded for $31,054.57, refused to sign an agreement starting work because of alleged faulty proceedings. According to Henry Wahl, manager of the Municipal Improvement Co., had the work been started his company would have been unable to collect any money for the contract.

SAN RAFAEL, MARIN CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, San Rafael. Owners, Marin County. Bids will be opened on July 5th at 2 p. m. for laying "Western Roadlite" or other asphaltic cement pavement upon waterbound macadam highways of Marin County, California, at Fairfax and Kentfield, in Road District No. 9.

BAKERSFIELD, KERN CO., CAL.—Street improvements. Cost not stated. Engineer, City Engineer, Bakersfield. Bids will be opened on June 26th at 5:30 p. m. for street improvements authorized under the following resolutions: That C street, from the south line of California avenue to the north line of Chester Lane; C street, from the south line of Chester Lane to the north line of Palm street; Dracena street, from the west line of Oleander avenue to the east line of A street, together with all the intersections of streets and alleys (excepting therefrom such portions as have already been done to the official line and grade) be graded, tamped and rolled between the points hereinbefore designated. That Beale avenue, from the north line of Jackson street to the south line of Flower street, together with all the intersections of streets and alleys (excepting therefrom such portions as have already been done to the official line and grade) be graded, tamped and rolled; that parking spaces, cement concrete curbs and wrought iron pipe culverts be constructed thereon, between the points hereinbefore designated. Bids close June 26th at 5:30 p. m. Plans may be had from the City Clerk.

HANFORD, KINGS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Hanford. Owners, Kings County. Three bids were submitted to the County Board of Supervisors for the construction of the unit of improved highway from Guernsey to the Dallas school house, a distance of five miles, and the unit running three miles east of Guernsey. The bids were as follows: Thompson Bros., 1514 H street, Fresno, constructing, grading and shaping road bed, 60c per cubic yard; laying base 2½ inches thick, 2½c per square foot; Warrenite top, 2c per square foot; guard fencing, 60c per lineal foot.

Raisch Improvement Co., 1100 Crocker Bldg., S. F., construction of road bed, 76c per cubic yard; laying base, 2.42c per square foot; guard fencing, 35c per lineal foot; construction on one-course pavement, 38.2c per square foot.

City Street Improvement Co., 166 Geary street, S. F., construction of road bed, 48c per cubic yard; laying base, 4.35c per square foot; Topeka top, 2.28c per square foot; Warrenite top, 4c per square foot; guard fencing, $1 per lineal foot; one-course pavement 85.3c per square foot. The awarding of the contract was laid over for a few days.

FRESNO, FRESNO CO., CAL.—Electrolier system. Cost not stated. Engineer, County Surveyor, Fresno. Owners, Fresno County. Plans and specifications for an electrolier system for Court House Park have been ordered drawn by the Board of Supervisors. Scott McKay, County Surveyor, will make the survey and draw the plans. This is the preliminary step towards an electrolier system conforming to the city system.

MODESTO, STANISLAUS CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. To determine the class of wearing surface to be used in the completion of the five miles of paved highway now being constructed by the county, one mile at Newman and four miles on the McHenry road, the Supervisors have ordered bids to be advertised for dressings of two thicknesses. Bids for the work will be opened on July 11th. Plans may be had from the County Clerk.

SACRAMENTO, CAL. — Street improvements and sewer work. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 27th for street improvements ordered under the following resolutions: That 12th St., from the north line of R street to the north line of W street (except the intersections of 12th and S streets; 12th and T streets; 12th and U streets and 12th and V streets) be improved by removing and disposing of all surplus and refuse material; reconstructing 3 concrete manholes and 4 concrete catchbasins; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic flush coat, and an asphaltic concrete wearing surface 1½ inches thick.

That Y street, from the east line of 30th street to the east line of 31st street, be improved by removing and disposing of all surplus and refuse material; constructing concrete curb, concrete gutter; placing 2 cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; 6-inch, vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick.

That Sacramento avenue, from the south line of Y street to the north line of Magnolia avenue (except the intersection of Orange avenue and Sacramento avenue, the intersection of 33rd street and Sacramento avenue) be improved by removing and disposing of all surplus and refuse material; constructing concrete curb, concrete gutter; placing 6 cast iron gutter drains with 6-inch,

vitrified, ironstone sewer pipe elbows attached; two concrete manholes, complete, with cast iron curbs and covers; 6 and 8-inch, vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick. Further information may be had from the City Clerk.

EUREKA, HUMBOLDT CO., CAL.—Highway improvements. Cost not stated. Engineer, County Surveyor, Eureka. Owners, Humboldt County. The Board of Supervisors has directed the County Surveyor to prepare specifications for grading a portion of the Lord-Ellis road. It also ordered that a call be made for the advertising for bids for the proposed work. Plans may be had from the County Clerk.

VENTURA, VENTURA CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to 11 a. m. of June 28th for grading and constructing culverts on six miles of road, Division 9, Moorpark to Simi. The approximate quantities are: 42,000 cubic yards excavation, including burrow; 35 cubic yards class A concrete; 400 cubic yards class B concrete, corrugated iron or reinforced concrete pipe in culverts as follows: 56 lineal feet 12-inch; 204 lineal feet 18-inch; 138 lineal feet 24-inch; 40 lineal feet 30-inch; 148 lineal feet 36-inch; 110 lineal feet 48-inch pipe; relaying 10 lineal feet 12 to 24-inch corrugated iron pipe; 25,000 pounds reinforcing steel in place. Plans and specifications, blanks, etc., obtainable from office of Highway Commission upon deposit of $3. Certified check of 5 per cent required. J. B. McCloskey is the Clerk.

LOS ANGELES, CAL.—Water pipe. Cost not stated. Engineer, Chief Engineer William Mulholland, Knickerbocker Bldg., L. A. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of July 10, 1916, for furnishing water pipe for Los Angeles County Water Works District No. 3, in accordance with specifications which may be obtained at the office of William Mulholland, Chief Engineer.

RICHMOND, CONTRA COSTA CO. CAL.—Sewer construction. Cost not stated. Engineer, City Engineer, Richmond. Owners, City of Richmond. The City Council has approved the plans for the installation of sewer work in the Richmond Center Tract. Bids for the sewer work will be opened on Monday, June 26th at 8:30 p. m. Plans may be had from the City Clerk.

MARTINEZ, CONTRA COSTA CO., CAL.—Highway surfacing. Cost not stated. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. The Board of Supervisors has ordered bids received up to June 30th for the final surfacing of the Walnut Creek Tunnel road. Plans may be had from the County Clerk.

VENTURA, VENTURA CO., CAL.—Highway improvement. Cost not stated. Engineer County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on June 27th at 11 a. m. for the improvement of Division 14 Oxnard to Camarillo. Said improvement consisting in part of grading and paving with concrete 4 inches thick and 16 feet wide, a distance of 8.57 miles.

CALIFORNIA—State Highway construction, bridge, etc. Cost not stated. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners State of California. Bids will be opened on July 10th at 2 p. m. for the following highway improvements: Marin County, 6 miles, Portland cement; Glenn County, 1 mile, Portland cement including a reinforced concrete bridge 100 feet long, and Ventura County, reinforced concrete bridge with one span 36 feet long. An official proposal appears in another column of this issue.

Contracts Awarded

SAN FRANCISCO—Street improvements. Cost as follows. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The following contracts for street improvements have been awarded by the Board of Public Works: The improvement of Geary street and Point Lobos avenue, between the east line of 40th avenue and the east line of 43rd avenue, including the crossings of the intervening avenues, by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadway thereof; also by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8, 12 and 15-inch, with 7 brick manholes with cast iron frames and covers and galvanized wrought iron steps, 48 Y branches and side sewers and by the construction of 11 brick catchbasins with cast iron frames, gratings and traps and 10-inch, vitrified, salt-glazed, ironstone pipe culverts. Awarded to the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $24,898.79.

The improvement of 19th street, between Kansas and Rhode Island streets, by grading, the construction of a 12-inch, vitrified, salt-glazed, ironstone pipe sewer, with 16 Y branches and 2 brick manholes with cast iron frames and covers and galvanized wrought iron steps. Awarded to Eaton & Smith, 407 11th street, S. F., for $3,729.

The improvement of Woolsey street between the west line of Dartmouth street and the west line of University street, including the crossing of Woolsey street and Colby street, and the improvement of University street, between the north line of Woolsey street and the south line of Wayland street, by grading to official line and grade. Awarded to the Tibbitts-Pacific Co., 16 California street, S. F., for $3,077.76.

The improvement of Vermont street, between 18th and 19th streets, by the construction of granite curbs, of a 7-foot strip of basalt block pavement on a 6-inch concrete foundation with a gravel filler adjacent to the center line of Vermont street; of an asphalt pavement, consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface upon the remainder of the roadway; and by the construction of artificial stone sidewalks Awarded to Flinn & Treacy, 404 First National Bank Bldg., S. F., for $1,767.

The improvement of 23rd street, between Hoffman and Grand View avenue, by grading, the construction of a 12-inch, vitrified, salt-glazed, ironstone pipe sewer with 30 Y branches and 3 brick manholes, with cast iron frames and covers and galvanized wrought iron steps; concrete curbs; concrete block gutters; and a basalt block pavement on a sand foundation with a gravel filler upon the remainder of the roadway thereof. Awarded to J. F. Dowling, Russ Bldg., S. F., for $7,505.32.

The construction of sewers and appurtenances in Sloat Boulevard from 24th avenue, produced, to 31st avenue produced. Awarded to the Tibbitts-Pacific Co., 16 California street, for $16,394

HILLSBOROUGH, SAN MATEO CO. CAL.—Street improvement, $3,139.89. Engineer, City Engineer, Hillsborough. Owners, City of Hillsborough. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract price, $3,139.89.

SAUSALITO, MARIN CO., CAL.—Street improvements. Cost as follows. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The following bids were opened and contracts awarded by the Town Trustees at their last meeting: West and Central avenues—Western Motor Drayage Co., $8,027.70; L. L. Page, $8,082.86; Blake Bros., $8,397.99. Engineer's estimate, $9,017.20. The contract was awarded to the Western Motor Drayage Co., 1444 Church street, S. F. Paving of North street—Western Motor Drayage Co., $5,123.43; L. L. Page, $5,355.66; Blake Bros., $5,482.31. Engineer's estimate, $5,136.16. The contract was awarded to the Western Motor Drayage Co., 1444 Church street, S. F.

SONOMA, SONOMA CO., CAL.—Street improvement, $1,358.50. Engineer, City Engineer, Sonoma. Owners, City of Sonoma. Contractor, E. J. Sundburg, 215 Oakland Bank of Savings Bldg., Oakland. Contract price, $1,358.50.

WILLITS, MENDOCINO CO., CAL.—Street paving. Cost as follows. Engineer, Town Engineer, Willits. Owners, Town of Willits. The following contracts were awarded by the Trustees at their last meeting: That portion of Main street known as Section 1 be graded and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic wearing surface ½ inch thick, and that hydraulic concrete curbs and gutters be constructed therein. Awarded to A. J. and J. L. Fairbanks, Willits, on their bid of: 1,042 linear feet of gutter at 35c per linear foot, $364.70; 900 linear feet of curb at 35c per linear foot, $315; 18,976 square feet of 5-inch paving at 14c per square foot, $2,656.64; 18,976 square feet of asphaltic oil wearing surface at 1.5c per square foot, $284.64; 18,976 square feet of grading subgrade at 1.5c per square foot, $284.64.

That portion of Main street known as Section 2 be graded and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick. Awarded to A. J. and J. L. Fairbanks, Willits, on their bid of: 128 linear feet of gutter at 35c per linear foot, $44.80; 116.5 linear feet of curb at 35c per linear foot, $40.77; 40,351 square feet of 5-inch paving at 14c per square foot, $5,649.14; 40,351 square feet of oil wearing surface at 1.5c per square foot,

$605.26; 40,351 square feet of grading subgrade at 1.5c per square foot, $605.26; 32,000 square feet of grading in unpaved area at 1c per square foot, $320; 100 cubic feet concrete in culvert, including corrugated iron top at $1.30 per cubic foot, $130..

OAKLAND, CAL — Street improvement. Cost as follows. Engineer, City Engineer, Oakland. Owners, City of Oakland. The Ransome-Crummey Co., First National Bank Bldg., Oakland, has been awarded the contract for the following work: That a portion of East 15th street be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, and paved with oil macadam, to wit: Beginning at a point on the southeast line of 41st avenue distant 9 feet southwest from the northeast line of East 15th street thence parallel to the northeast line of East 15th street to the southeast line of the "Daly Tract," etc., on their bid of per cubic yard of fill, 40c; per linear foot of redwood curb, 10c; per square foot of concrete gutter, 13c; per square foot of oil macadam pavement, 7c.

EUREKA, HUMBOLDT CO., CAL.—Highway improvement, $5,410. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contraetor, H Padgett, Fields Landing. Contract price, $5,410.

STORES AND OFFICES

SAN FRANCISCO—Stores and offices, 2 story and base. Class C construction, $40,000. Architect, Frederick Whitton, 251 Kearny street, S. F. Owners, San Francisco Remedial Loan Association. Location, northwest corner Mision and Mint avenue. A contract for the excavating and concrete work has been awarded. Bids are now being taken for the brick and terra cotta work. Further mention will be made of the work.

SAN FRANCISCO—Stores and offices 12 story and base. Class A construction, $175,000. Architects, Woods & Simpson, 110 Sutter street, S. F. Owners, Savings Union and Trust Co. Location, southwest corner Market and Second streets, covering an area of 41 by 137½ feet. Steel work awarded to Dyer Bros. Segregated figures to be taken on the balance of the work Plans complete and figures to be taken

BERKELEY, ALAMEDA CO., CAL.—Stores, 1 story and base, brick and steel, $10,000. Architect, James W. Plachek, Acheson Bldg., Berkeley. Owner, N. Davidson. Location, Bancroft near Telegraph, covering an area of 50 by 100 feet. Will contain stores on the first floor and offices above. Interior finish pine and hardwood. Patent store fronts and marble wainscot. Exterior faced with pressed brick. Plans being prepared.

SACRAMENTO, CAL. Market alteration, $1,000. Architect, none. Owner, S. W. Waterhouse. Location, 711 J street. Work will consist of interior and exterior alterations. Tile and marble work, plastering and electric work. Plans complete and work to be done by Day Labor.

SEALED PROPOSALS

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1050 — Proposals for Steel Office Furniture, Including Bookcases, Filing Cabinets, Desks and Wardrobes; Office Chairs; Furniture for Quarters, including Iron Beds, Refrigerators, Chiffoniers, Dressers, Sideboards, Tables and Chairs.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 30, 1916,** at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1050) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSALS FOR ALASKA RAILROAD EQUIPMENT.

ALASKA CIRCULAR NO. 188 — Sealed proposals will be received at the office of the purchasing agent, Alaskan Engineering Commission, Seattle, Wash., not later than **11 a. m. June 26, 1916,** for railway motor car, locomotive crane, scrapers, sleds, wagons, frogs, switches, ear replacing frogs, tinsmiths' machines and equipment. Copies of circular may be obtained upon application at this office, U. S. engineer office, 802 Couch Building, Portland, Ore.; bureau of mines, 506 Custom House, San Francisco, Cal.; U. S. Reclamation Service, 505 Tramway Building, Denver, Colo.; bureau of mines, 40th and Butler streets, Pittsburgh, Pa.; Alaskan Engineering Commission, Washington, D. C., and U. S. Reclamation Service, room 802 Federal Building, Chicago, Ill. C. E. DOLE, purchasing agent.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, University of California, Berkeley, California, **at or before 9 A. M., Wednesday, July 12, 1916, for the Excavation and Concrete, Exterior Cement, Finish, Roofing and Sheet Metal, Interior Furring, Lathing and Plastering, Carpentry and Cabinet Work, Marble and Terrazzo, Plumbing, Heating and Ventilating, and Electric Wiring** on Hilgard Hall and on the Chemistry Building separately, and for the **Elevator** in the Chemistry Building and for the **Acoustic Felt** on both buildings which are located on the grounds of the University of California.

Plans and specifications may be obtained at the Cashier's window in said office after 9 A. M. Tuesday, June 20th, on written application received prior to that date, accompanied by a deposit of $50.00 for each set of plans and specifications requested, which deposit will be refunded on return of said plans and specifications accompanied by a regular bid for the work. Plans will be given out in the order in which applications are received.

No bids will be received unless accompanied by a certified check or bond in favor of the undersigned, equal to 10% of the bid, to secure execution of the contract by the successful bidder. The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on July 10, 1916,** at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

Marin County, from Larkspur to Sausalito (IV-Mrn-1-B), about 6.0 miles in length, to be paved with Portland cement concrete.

Glenn County, at Walker Creek (III-Gle-7-B), about 1.0 miles in length, to be paved with Portland cement concrete, includes a reinforced concrete bridge about 100 feet long over Walker Creek.

Ventura County, about one mile east of Camarillo (VII-Ven-2-B), a reinforced concrete bridge having one span of 36 feet.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the office of the Division Engineer of the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: June 7, 1916.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 9, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., August 7, 1916, for the mechanical equipment (except elevators, lift and lighting fixtures) of the new United States Post Office at Portland, Oregon.** Drawings and specifications may be obtained, after June 19, 1916, from the Custodian of site at Portland, Oregon, or at the office of the architect, Lewis P. Hobart, 1122 Crocker Bldg., San Francisco, California, or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1049 — Proposals for Cast Iron Lamp Posts, Base Sockets, Porcelain Receptacles, Transformers, Panel Boards, Lighting Fixtures, Electrical Attachments, Conduit and Fittings, Lock Nuts, Pipe Straps, Stove Bolts, Screws, Solder, Electric Cable, Wire, Asbestos Lumber, Insulating Tape, Soldering Paste, Pipe Bending Machines, Cable Reel Wheels, White Lead, Japan Drier, Turpentine, Turpetine Substitute, Creosote Oil, Alcohol, Shellac, Varnish, Lamp Black, Paints and Putty.—Sealed proposals will be received at the office of the General Purchasing Officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 28, 1916,** at which time they will be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1049) may be obtained from this office or the office of the Assistant Purchasing Agent, Fort Mason, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, Major, Corps of Engineers, U. S. Army, General Purchasing Officer.

PROPOSALS FOR BUILDING.

BUILDING — Sealed proposals endorsed "Proposals for five buildings and two masts," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **11 o'clock a. m. June 24, 1916,** and then and there publicly opened for five wooden frame buildings (four covered with wood shingles and one covered with

corrugated steel) and two wooden masts 225 feet high, at the naval radio station, Marshfield, Ore. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard, Mare Island, Cal. F. R. HARRIS, chief of bureau.

PROPOSALS FOR WOOD MAST.

WOOD MAST—Sealed proposals indorsed "Proposals for Radio Mast" will be received at the bureau of yards and docks, Navy Department, Washington, D. C., until **11 o'clock a. m. June 24, 1916**, and then and there publicly opened, for one wooden radio mast at the naval radio station, North Head, Wash. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard, Bremerton, Wash. F. R. HARRIS, chief of bureau.

PROPOSALS FOR DRAINAGE SYSTEM.

DRAINAGE SYSTEM — Custodian's Office, U. S. Post Office, Lander, Wyo.—Sealed proposals will be received at this office until **3 p. m. June 23, 1916**, and then opened for change in drainage system at this building in accordance with drawings Nos. 55A and M-350E and the specification, copies of which may be had at this office.

PROPOSALS FOR TRACK SCALES.

TRACK SCALES—Sealed proposals, indorsed "Proposals for a railway track scale," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until **11 o'clock a. m. July 1, 1916**, and then and there publicly opened for furnishing and installing a railway track scale of 100,000 pounds weighing capacity, at the naval station, Pearl Harbor, Hawaii. Plan and specification can be obtained on application to the bureau or to the commandant of the naval station named. F. R. HARRS, Chief of Bureau.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 2, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., July 14, 1916**, for the construction complete of the United States post office at Vancouver, Wash. Drawings and specifications may be obtained from the custodian of site at Vancouver, Wash., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on June 26, 1916**, at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

Contra Costa County, from the southerly county boundary to Richmond (IV-C. C.-14-A), about 2.5 miles in length, to be paved with Portland cement concrete base and asphalt wearing surface.

San Mateo County, from Beresford to Redwood City (IV-S. M.-2-B), about 4.2 miles in length, to be paved with Portland cement concrete.

Ventura County, from Springville to Santa Clara River (VII-Ven-2-C), about 5.6 miles in length, to be paved with Portland cement concrete.

Humboldt County, from Loleta to Beatrice (I-Hum-1-G), about 4.3 miles in length, to be paved with Portland cement concrete.

Shasta County, between Baird and Antler (II-Sha-3-C), a reinforced concrete bridge about 120 feet long across Salt Creek, and a reinforced concrete bridge about 541 feet long across the Sacramento River.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWFELD D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: May 25, 1916.

INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 5, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., June 28, 1916**, for furnishing and installing lighting fixtures in the United States post office, custom house, and court house at Hilo, Hawaii, in accordance with drawings and specifications, copies of which may be had at this office. Proposals are desired only from those qualified to produce work of the highest grade, both artistically and mechanically, and the right is reserved to refuse to send the drawings and specifications to or to receive proposals from anyone who, in the opinion of the Supervising Architect, is not so qualified. JAMES A. WETMORE, Acting Supervising. (*)

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 7, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., August 7, 1916**, for the construction (except mechanical equipment) of the new United States Post Office at Portland, Ore. Drawings and specifications may be obtained, after June 19, 1916, from the Custodian of site at Portland, Oregon, or at the office of the architect, Lewis P. Hobart, 1122 Crocker Bldg., San Francisco, California, or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect (*)

LARGER POSTAL SAVINGS TO BE ACCEPTED.

Larger postal savings deposits will now be accepted at the post office. This is made possible by an important amendment to the Postal Savings Act just approved by President Wilson. A postal savings depositor may now have an account amounting to $1,000 upon which interest will be paid. Formerly $500 was the maximum amount he could have to his credit. This enlargement of postal savings facilities will be very gratifying to thousands of depositors who have already reached the old $500 limit and are anxious to entrust more of their savings to Uncle Sam. Another feature of the amendment that will avoid further embarrassment to the public and to postal officials is the doing away with the limit on the amount that could be accepted from a depositor monthly. Under the old law only $100 could be deposited in a calendar month. The amendment abolishes this restriction. While the Postal Savings System has already proved a signal success as is shown by the fact that more than half-a-million depositors have over eighty million dollars standing to their credit, still it has fallen short of meeting the full demands of the public because of the restrictions which have now been eliminated. Postmaster General Burleson and Third Assistant Postmaster General Dockery have been tireless in their efforts to secure a modification of the limitations and the new liberalizing legislation is particularly gratifying to them.

FOREST NOTES.

It is estimated that there is enough waste from the sawmills of the South alone to produce twenty thousands tons of paper a day.

Because of the heavy snowfall last winter, Forest rangers found it necessary this spring to remove two feet of snow from the Beaver Creek Nursery in Utah, so that the young trees might be uncovered by the time they were needed for spring planting on the National Forests of that region. Part of the snow was taken off by use of shovel and pick. By spreading a thin layer of fine soil over another part, the natural melting of the snow was hastened sufficiently to make shoveling unnecessary.

BOARD OF PUBLIC WORKS TO OPEN BIDS.

The Board of Public Works at its meeting today will consider bids for the construction of a sewer and appurtenances in Sloat Boulevard from Twenty-fourth avenue to Thirty-first avenue. Bids will also be considered for furnishing and installing special public furniture in the new Council Chambers in the City Hall and for the improvement of Twenty-third street between Hoffman and Grand View avenues. The latter improvement will consist of the construction of a 12-inch sewer and basalt block pavement.

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ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO

RESIDENCES—2, 2 story and base, frame, $4,000 each. San Francisco. Architect, Charles C. Frye, 20 Montgomery street, S. F. Owner's name withheld. Location, Merritt Terrace. Each house will contain eight rooms, bath and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, frame, $4,000. San Francisco. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owners, Finance and Realty Development Co., Phelan Bldg., S. F. Location, north Anza east of 5th avenue. Each house will contain seven rooms, bath and basement garage. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 2 story and base, frame, $3,000 each. San Francisco. Architect, none. Owners, Johnson and Johnson, 844 14th street, S. F. Location, east 22nd avenue south of Clement. Each house will contain six rooms, bath and basement garage. Interiors will be finished in pine, hardwood and white enamel. Hardwood floors throughout. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $5,000. San Francisco. Architect, none. Owners, S. A. Born Building Co., 660 Market street, S. F. Location, Lincoln Manor. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Large sun porch. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—4, 2 story and base, frame, $10,000 each. San Francisco. Architect, Edward E. Young, 251 Kearny street, S. F. Owner, Thomas Scoble, 363 14th avenue, S. F. Location, northeast Presidio and Jackson. Each house will contain ten rooms, three baths and separate garage. Interiors will be finished in hardwood and white enamel with hardwood floors throughout. There will be a central heating system, probably hot water, hot water circulating system and open fire places. Mantels tile and marble. Bath rooms tile and equipped with showers. Exteriors covered with cement plaster. Clay tile roof. Plans complete and work to be done by Day Labor.

RESIDENCE—2 and 3 story and base, brick and frame, $40,000. San Francisco. Architect, Louis Upton, 111 Ellis street, S. F. Owner, J. J. Lyman. Location, Vallejo near Lyons. Will contain fourteen rooms, several baths, sun porches and basement garage. Interior finish hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Central heating system, oil burning plant, vacuum cleaning and hot water supply. Bath rooms tile and equipped with showers. Exterior faced with pressed brick. Plans being prepared.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, J. C. Bateman, Balboa Bldg., S. F. Owner, R. O'Connor. Location, northwest corner of Castro and 24th streets. Will contain four stores on the first floor and eight modern two and three room apartments on the upper floors. Interior finish pine and elm with some hardwood floors. Central heating system and hot water system. Wall beds. Composition floors in bath rooms. Marble and tile entrance. Exterior covered with cement plaster. Plans being prepared.

APARTMENT HOUSE AND STORES —2 story and base, frame. Cost not stated. San Francisco. Architect, C. O. Clausen, Hearst Bldg., S. F. Owner, Mrs. Gerdes. Location, Mission near 19th street. Will contain stores on the first floor and a number of two and three room apartments above. Interior finish pine with some white enamel. Hardwood floors. Wall beds. Patent store fronts and marble bases. Exterior covered with cement plaster and shiplap. Plans complete and figures being taken.

SCHOOL—1½ story and base, frame and plaster, $40,000. San Francisco. Architect, Julia Morgan, Merchants Exchange Bldg., S. F. Owner, Mrs. Katherine D. Burke. Location, Jackson between Broderick and Baker. Designed as a privte school for girls. Will contain class rooms and a large auditorium, office and gymnasium. Interior finish hardwood and pine. Central heating system and hot water supply. Vacuum cleaning. Exterior covered with cement plaster. Plans complete and figures being taken.

SCHOOLS, ETC.—Class C construction. Cost not stated. San Francisco. Architect's name not given. Owners, City and County of San Francisco. A large number of bids for City and County construction were opened at the last meeting of the Board of Public Works. A complete list of these bids will be found under the heading of San Francisco in this issue.

JAIL AND SCHOOL—Class C construction. Cost not stated. San Francisco. Architect's name not given. Owners, City and County of San Francisco. A complete list of the bids received for the construction of recent city and county work will be found under the heading of San Francisco in this issue.

HOSPITAL WARD—2 story and base, reinforced concrete. Cost not stated. San Francisco. Architect, Constructing Quartermaster's Department, Fort Mason. Owners, United States Government. A complete list of the bids received for the construction of the dispensary ward at the Letterman General Hospital appears under the heading of San Francisco in this issue.

STORES AND OFFICES—2 story and base. Class C construction, $40,000. San Francisco. Architect, Frederick Whitton, 251 Kearny street, S. F. Owners, San Francisco Remedial Loan Association. Location, northwest corner Mission and Mint avenue. A contract for the excavating and concrete work has been awarded. Bids are now being taken for the brick and terra cotta work. Further mention will be made of the work.

STORES AND OFFICES—12 story and base. Class A construction, $175,000. San Francisco. Architects, Woods & Simpson, 110 Sutter street, S. F. Owners, Savings Union and Trust Co. Location, southwest corner Market and Second streets, covering an area of 41 by 137½ feet. Steel work awarded to Dyer Bros. Segregated figures to be taken on the balance of the work. Plans complete and figures being taken.

Contracts Awarded

STREET IMPROVEMENTS — Cost as follows. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. The following contracts for street improvements have been awarded by the Board of Public Works: The improvement of Beary street and Point Lobos avenue between the east line of 40th avenue and the east line of 43rd avenue, including the crossings of the intervening avenues, by the construction of an asphalt pavement consisting of a 6-inch concrete foundation and a 2-inch asphaltic wearing surface on the roadthereof; also by the construction of the following vitrified, salt-glazed, ironstone pipe sewers and appurtenances: 8, 12 and 15-inch with seven brick manholes with cast iron frames and covers and galvanized wrought iron steps; 48 Y branches and side sewers, and by the construction of 11 brick catchbasins with cast iron frames, gratings and trays and 10-inch vitrified, salt-glazed, ironstone pipe culverts. Awarded to

the Ransome-Crummey Co., First National Bank Bldg., Oakland, for $24,-896.79.

The improvement of 19th street, between Kansas and Rhode Island Sts., by grading, the construction of a 12-inch, vitrified, salt-glazed, ironstone pipe sewer, with 16 Y branches and 2 brick manholes with cast iron frames and covers and galvanized wrought iron steps. Awarded to Eaton & Smith, 107 11th street, San Francisco, for $3,-729.

The improvement of Woolsey street, between the west line of Dartmouth street and the west line of University street including the crossing of Woolsey street and Colby street, and the improvement of University street, between the north line of Woolsey street and the south line of Wayland street, by grading to official line and grade. Awarded to the Tibbitts-Pacific Co., 16 California street, San Francisco, for 3,077.76.

The improvement of Vermont street, between 18th and 19th streets, by the construction of granite curbs, of a 7-foot strip of basalt block pavement on a 6-inch concrete foundation with a gravel filler adjacent to the center line of Vermont street, of an asphalt pavement, consisting of a 6-inch concrete foundation with a 2-inch asphaltic wearing surface upon the remainder of the roadway; and by the construction of artificial stone sidewalks. Awarded to Flinn & Treacy, 404 First National Bank Bldg., San Francisco, for $1,767.

The improvement of 23rd street, between Hoffman and Grand View avenue, by grading, the construction of a 12-inch, vitrified, salt-glazed, ironstone pipe sewer with 30 Y branches and 3 brick manholes with cast iron frames and covers and wrought iron steps; concrete curbs, concrete block gutters, and a basalt block pavement on a sand foundation with a gravel filler upon the remainder of the roadway thereof. Awarded to J. F. Dowling, Russ Bldg., San Francisco, for $7,505.32.

The construction of sewers and appurtenances in Sloat Boulevard, from 24th avenue, produced, to 31st avenue, produced. Awarded to the Tibbitts-Pacific Co., 16 California street, for $16,394.

APARTMENT HOUSE—3 story and base, frame, $11,000. San Francisco. Architect, O. R. Thayer, 20 Montgomery street, S. F. Owner, George C. Maile. Contractor, L. A. Hinsen, 180 Jessie street, S. F. Contract price, $11,000.

BANK AND OFFICES—6 story and base. Class A construction, $250,000. Lewiston, Montana. Architects, Link & Hare, Helena, Mont. Owners, Bank of Ferguson County. Contractors, Sound Construction and Engineering Co., Immigration Bldg., Seattle, Wash. Contract price, $250,000.

City Bids Opened.

Board of Public Works Receives Figures for Three School Jobs and Engine House No. 17.

An exceptional large number of bids were opened by the San Francisco Board of Public Works at the regular Wednesday afternoon meeting. The work which was out for figures included three schools and one fire house

Bids were received for the general construction, brick and hollow tile work, structural steel work, plumbing, heating and ventilating and electric work for the Daniel Webster School; for the general completion of the Redding School, together with separate figures for the heating and ventilating; for the general construction of the Paul Revere School and for the general construction, plumbing and lighting fixtures for Engine House No. 17.

Following is a complete list of the bids as opened:

General Construction, Daniel Webster School.

Sound Constr. & Eng. Co.	$74,789
Masow & Morrison	76,992
Fred L. Hansen	67,791
Elmer Carlson	69,863
*C. L. Wold	64,579
Lange & Bergstrom	75,956
T. W. McClenahan	73,276
J. S. Hannah	68,773
P. F. Reilly	81,941
Harvey A. Klyce	71,797
Newsom & Henning enclosed in wrong envelope)	24,165
E. S. Mulford	72,420
E. R. Ward	84,500
W. D. Henderson	74,773
O. Monson	37,287
Anderson & Ringrose	73,940

Brick or Hollow Tile, Daniel Webster School.

	Prop. 1	Prop. 2
Charles Hock	$24,485	$22,985
Farrell & Reed	26,638	24,000
A. W. Lawson	22,980	20,980
A. G. Reed	21,998	20,408
White & Gloor	27,316	25,700
*T. W. McClenahan	21,626	19,864
E. S. Mulford	21,989	20,928

Structural Steel, Daniely Webster School.

	Prop. 1	Prop. 2
Judson Mfg. Co.	$28,300	.....
Ralston Iron Works	23,175	$ .05
Schrader Iron Works	27,458	109.00
Pacific Rolling Mills Co.	25,427	97.00
Vulcan Iron Works	24,961	100.00
*Western Iron Works	22,763	100.00

Plumbing, Daniel Webster School.

	Prop. 1	Prop. 2
J. E. O'Mara	$ 7,745	$ 7,720
Alex Coleman	7,055	7,000
J. M. Lettich	6,664	6,530
Wittman-Lyman Co.	7,486	7,456
Burnham Plumbing Co.	8,037	7,993
*A. Lettich	6,297	6,172
Frederick W. Snook Co.	7,828	7,746
Scott Co.	7,590	7,540
W. F. Wilson Co.	7,281	7,189
J. H. Pinkerton	7,480	7,430
Herman Lawson	7,500	7,410
Turner Co.	6,870	6,840
Kiernan & O'Brien	7,534	7,484
Robert Dalziel	7,447	7,400

Heating and Ventilating, Daniel Webster School.

	Prop. 1	Prop. 2
J. E. O'Mara	$ 7,990	$ 7,690
J. M. Lettich	7,198	6,798
Wittman-Lyman Co.	7,820	7,495
Peterson-James Co.	7,800	7,240
Burnham Plumbing Co.	7,978	7,521
A. Lettich	7,246	6,835
F. P. Walsh	7,590	- 360
*Scott Co.	6,940	6,540
J. H. Pinkerton	8,400	8,050
Herman Lawson	8,350	8,000
Kiernan & O'Brien	8,296	7,980
Turner Co.	7,990	7,550
Robert Dalziel	7,695	7,186
Gilley-Schmidt Co.	8,315	7,961

Electric Work, Daniel Webster School

	Prop. 1	Prop. 2
Globe Elec. Co.	$ 6,125	Add $ 452
Rex Electric Co.	5,963	5,637
F. E. Newbery Elec. Co.	5,898	5,529

General Completion, Redding School.

A. Kohn	$49,300
H. C. Matthies	49,355
*C. L. Wold	48,300
Elmer Carlson	51,195
Newsom & Henning	49,155
O. Monson	51,100

Heating and Ventilating, Redding School.

J. E. O'Mara	$4,700
A. Lettich	4,553
Burnham Plumbing Co.	4,945
Wittman-Lyman Co.	4,274
J. M. Lettich	4,380
*Scott Co.	3,960
Gilley-Schmid Co.	4,838
Kiernan & O'Brien	4,444

Electric Work, Redding School.

*Globe Electric Co.	$4,609
Rex Elec. Constr. Co.	5,076
E. E. Brown	5,196
F. E. Newberry Elec. Co.	5,525
McFell Electric Co.	5,215

General Construction, Paul Revere School.

F. L. Hansen	$37,790
L. Heckenroth	37,015
M. G. Zelinsky (low)	28,680
Grace & Bernieri	31,755
E. Carlson	33,824
T. W. McClenahan	38,113
P. F. Reilly	38,000
Harvey A. Klyce	34,228
J. S. Hannah	34,938
Western Bldg. & Eng. Co.	36,790
E. S. Mulford	33,989
L. H. Stock	34,022
Anderson & Ringrose	31,720
O. Monson	32,806
E. E. Etherton (void, not signed)	26,300
C. R. Ward	34,000

ENGINE HOUSE NO. 17.

General Construction.

	Prop. 1	Prop. 2
F. L. Hansen (low)	$24,750	$ 800
M. G. Zelinsky	25,653	400
A. Kohn	25,490	1,500
E. Carlson	26,800	2,000
T. W. McClenahan	25,784	1,000
Newsom & Henning (wrong envelope)	67,474	63,500
L. H. Stock	27,143	400
Western Bldg. & Eng Co.	27,965	300
E. S. Mulford	25,060	480
John Spargo (low)	24,750	500
O. Monson	25,918	...
O. C. Holt	26,720	...

Plumbing, Engine House No. 17.

J. E. O'Mara (low)	$3,643
Alex Coleman	4,078
J. M. Lettich	3,917
Wittman-Lyman Co.	3,840
Burnham Plumbing Co.	4,300
A. Lettich	3,879
F. W. Snook	4,020
Scott Co.	3,836
W. F. Wilson	3,860
H. Lawson	4,100
Kiernan & O'Brien	3,945
J. H. Pinkerton	3,764
Turner Co.	3,790

Electrical Work, Engine House No. 17.

Central Electric Co. (low)	$1,297
F. E. Newberry	1,350
E. E. Brown	1,375
McFell Electric Co.	1,395

Lighting Fixtures, Engine House No. 17

Ickelheimer Bros.	$778.00
Thos. Day Co.	672.55
Roberts Mfg. Co. (low)	640.00

Receive Figures For Hospital Dispensary.

Masow & Morrison Low for New Reinforced Concrete Dispensary Buiding at Letterman Hospital.

Bids were received Monday, June 12th, in the office of Constructing Quartermaster Lieut. Col. George Mc. Williamson at Fort Mason for the construction of a two-story and basement reinforced concrete dispensary for the Letterman General Hospital. All bids were referred to the War Department at Washington, D. C.

Bids were taken on the work as follows: (1) construction only; (2) deduct for slate roof; (3) deduct for iron window guards; (4) add for electric elevator in place of hand; (5) plumbing; (6) heating; (7) electric work; (8) electric fixtures; (9) unit price per cubic yard for excavating; (10) unit price per cubic yard for plain concrete; (11) unit price per cubic yard for reinforced concrete; (12) deduct for omitting porch; (13) increasing width of beams and (14) omitting Aero Fire Alarm System. Following is a complete list of the bids received:

General Construction.

Ehrhardt Constr. Co., 120 days. (1) $19,240; (2) $300; (3) $175; (4) $815; (9) $.50; (10) $6.50; (11) $9.50.

Neil McLean, 180 days. (1) $20,300; (2) $260; (3) $300; (4) $690; (9) $.75; (10) $8.50; (11) $13.50; (12) $300; (13) $132; (14) $475.

Howard S. Wiliams, 150 days. (1) $17,878; (2) $250; (3) $150; (4) $805; (9) $.75; (10) $8; (11) $14; (12) $350; (13) $60; (14) $475.

R. S. K. MacMillen, 180 days. (1) $18,825; (2) $250; (3) $175; (4) $900; (5) $500; (6) $300; (7) $400; (8) $90; (9) $.80; (10) $10; (11) $12; (12) $250; (13) $250; (14) $475.

Anderson & Ringrose, 120 days. (1) $19,600; (2) $200; (3) $102; (4) $700; (9) $1; (10) $10; (11) $18; (12) $203; (13) $100; (14 $475.

Saliah Constr. Co., 130 days (1) $19,466; (2) $375; (3) $100; (4) $405; (5) $545; (6) $315; (12) $130; (13) $100.

Frank M. Garden & Co., 170 days. (1) $17,793; (2) $100; (3) $384; (12) $300; (13) $68; (14) $475.

Lester H. Stock, 200 days (1) $17,698; (9) $.50; (10) $9; (11) $15.

F. L. Hansen, 150 days. (1) $18,333; (3) $80; (4) $900.

Masow & Morrison, —— days. (1) $17,537; (2) $390; (3) $130; (4) $825; (12) $250; (13) $88; (14) $475.

Hother Glahn, 160 days. (1) $19,600; (2) $500; (3) $175; (4) $805; (9) $1; (10) $8; (11) $12; (12 $275; (13) $120; (14) $475.

Grace & Bernieri, 110 days (1) $20,700; (2) $375; (3) $300; (4) $800; (9) $.80; (10) $7; (11) $16; (12) $208; (13) $90; (14) $460.

Plumbing and Heating.

	Plumbing	Heating
Scott Company	$495	$250
Burnham Plumbing Co.	486	330

Electric Work.

	Wiring	Fixtures
Globe Electric Works	$775	$118.00
E. A. Mantell	502	89.50
McFell Electric Co.	527	94.00

OAKLAND AND ALAMEDA COUNTY

SCHOOL—2 story and base, brick and concrete. Alameda, Alameda Co., Cal. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. All bids for the construction of the Lincoln School have been rejected for the second time. Plans will be revised and new figures called. Further mention will be made of the work.

STREET IMPROVEMENTS—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on June 29th for street work authorized under the following resolutions: That East 16th street from the southeast line of 55th avenue to the northwest line of 57th avenue be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, and paved with oil macadam.

That the northeast portions of the half of Weld street be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, paved with oil macadam and sidewalked with a cement sidewalk 5 feet wide. Bids close June 29th at 11 a. m.

Construct concrete culvert, pipe conduit be relaid, etc., also three brick storm water inlets with cast iron tops; pipe conduits, having internal diameters of 10 inches; also seven brick manholes with cast iron tops be constructed in Foothill Boulevard, Church street and Beck street. Bids close June 29th at 11 a. m. For further particulars address the City Clerk, City Hall, Oakland.

RESIDENCE—1½ story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek Acheson Bldg., Berkeley. Owner, G. Smith. Location, Thousand Oaks. Will contain eight rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, H. Goranson, 431 48th street, Oakland. Location, east Laguna south of Hopkins. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect none. Owner, Mathew Klein, 6511 Raymond street, Oakland. Location, east El Centro west of Clark. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET PAVING—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. Specifications have again been adopted by the City Council for the paving of Central avenue from Fernside Boulevard to Fourth street, and the Clerk has been instructed to advertise for bids, which will be opened on July 5th. This is the third time bids for this work have been called for, those previously received having been rejected. Plans may be had from the City Clerk.

STREET IMPROVEMENT—Cost as follows. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. The Ransome-Crummey Co., First National Bank Bldg., Oakland, has been awarded the contract for the following work: That a portion of East 15th street be graded, curbed with redwood, guttered with concrete gutters 3 feet wide, and paved with oil macadam, to wit: Beginning at a point on the southeast line of 41st avenue distant 9 feet southwest from the northeast line of East 15th street, thence parallel to the northeast line of East 15th street to the southeast line of the "Daly Tract," etc., on their bid of per cubic yard of fill, 40c; per linear foot of redwood curb, 10c; per square foot of concrete gutter, 13c; per square foot of oil macadam pavement, 7c.

RESIDENCE — 2 story and base, frame, $3,500. Piedmont, Alameda Co., Cal. Architect, none. Owner, E. W. Woodward, 341 13th street, Oakland. Location, east San Carlos avenue. Will contain seven rooms, bath and sleeping porch. Interior finish pine and hardwood with some white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, 2,000. Alameda, Alameda Co., Cal. Architect, none. Owner, C. Roth, 2117 Pacific avenue, Alameda. Location, 2263 Encinal avenue. Will contain six rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—2, 1 story and base, frame, $1,600 each. Oakland, Cal. Architect, none. Owner, C. W. Glantz, 1932 88th avenue, Oakland. Location, 86th and 87th avenues north of Holly. Each house will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire places and tile mantels. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES—40, 1 story and base, frame, $2,500 each. Alameda, Alameda Co., Cal. Architect's name not given. Owner, Dr. Chauncey P. Pond, 1518 Encinal avenue, Alameda. Location, Sharp property in East Alameda. Each house will contain five rooms, bath and sleeping porch. Interiors will be finished in pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Automatic water heaters. Exteriors covered with cement plaster, rustic and shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,250. Oakland, Cal. Architect, none. Owner, Edward Grandin, 1537 Prince street, Berkeley. Location, west Adeline north of 56th. Will contain five rooms and bath. Interior finish pine with white enamel in the bed rooms. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCES — 2, 1 story and base, frame, $2,500 each. Oakland, Cal. Architect, Alvin J. Stern, 306 14th street, Oakland. Owner, Mrs. Rogers. Location, east 28th street and 10th avenue. Each house will contain six rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exteriors covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, M. I. Diggs, Syndicate Bldg., Oakland. Owner, John D. Garretson. Location, west Peralta avenue near Delaware. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Berkeley, Alameda Co., Cal. Architect, F. Holberg Reimers 2125 Shattuck avenue, Berkeley. Owner, A. C. Lawson. Location, Buena Vista avenue. Will contain eight rooms, two baths and sleeping porch. Interior finish pine and hardwood with white enamel in the bed rooms. Hardwood floors, furnace heat and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSE ALTERATION —2 story and base, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, J. Henry Boehrer, Delger Bldg., Oakland. Owner, Thomas P. Rose. Location, southwest corner Shattuck and Woolsey. Work will consist of interior and exterior alterations, plumbing, painting, plastering, electric work and carpentry work. There will be a total of 11 rooms arranged in two and three room suites. Exterior covered with cement plaster. Plans complete and figures being taken.

APARTMENT HOUSES — 2, 3 story and base, frame or brick. Cost not stated. Berkeley, Alameda Co., Cal. Architect, Merrill Newsom, 1748 Broadway, Oakland. Owner, O. G. Smith. Location, Ashby near College. Each building will contain two stores and eight apartments of three rooms. Interior finish pine, elm and white enamel. Some hardwood floors. Wall beds. Patent store fronts and marble bases. Bath rooms tile. Exterior covered with cement plaster on pressed brick. Plans being prepared.

FLATS AND OFFICE—2 story and base, frame, $10,000. Berkeley, Alameda Co., Cal. Architects, Banning & Stewart, 5215 Broadway, Oakland. Owner, Dr. Richardson. Location, College avenue and Alcatraz. Will contain the doctor's office and a large flat. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Central heating system and hot water circulating system. Exterior covered with cement plaster. Plans being prepared.

FLATS—2 story and base, frame. Cost not stated. Berkeley, Alameda Co., Cal. Architect, none. Owner, E. D. Miller, 1105 Fairview, Berkeley. Location, 3360 King street. Will contain two flats of five and six rooms. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath rooms tile. Automatic water heaters. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

COLLEGE BUILDINGS—2, 2 story and base, brick and steel. Cost not stated. Berkeley, Alameda Co., Cal. Architect, John Galen Howard, 604 Mission street, S. F. Owners, Regents of the University of California. Bids will be opened on July 12th at 9 a. m. for excavating and concrete work, exterior cement finish, roofing and sheet metal work, interior furring, lathing and plastering, carpentry and cabinet work, marble and terrazzo, plumbing, heating and ventilating and electric work on Hilgard Hall and on the Chemistry building, and for the elevator work in the Chemistry building, and for the accoustic felt on both buildings.

MECHANICAL EQUIPMENT FOR POWER HOUSE—Cost as follows. Berkeley, Alameda Co., Cal. Engineer's name not given. Owners, Regents of the University of California. Only two bids were received by the Regents of the University of California on June 12th for furnishing mechanical equipment for the University power house. Hunt, Mirk & Co. bid $90,632 on the plans and specifications furnished by the Regents and $80,283 on their plans and specifications. C. C. Moore & Co. bid $85,773 on the first proposition and $60,795 on the second. All bids were taken under advisement

FACTORY—1 and 3 story and base, frame. Cost not stated. Oakland, Cal. Architect, none. Plans are now being figured for the first unit of a large factory group to be erected on the Canal Tide Lands. The building will cover a considerable area. Exterior will be covered with corrugated iron. Further mention will be made of the work.

STORES—1 story and base, brick and steel, $10,000. Berkeley, Alameda Co., Cal. Architect, James W. Plachek Acheson Bldg., Berkeley. Owner N Davidson. Location, Bancroft near Telegraph, covering an area of 50 by 100 feet. Will contain stores on the first floor and offices above. Interior finish pine and hardwood. Patent store fronts and marble wainscot. Exterior faced with pressed brick. Plans being prepared.

Bids For Mechanical Equipment At U. Of C.

Only Two Bids Received For Furnishing Mechanical Equipment for University Power House.

Only two bids were received by the Regents of the University of California on June 12th for furnishing mechanical equipment for the University power house at Berkeley.

Hunt-Mirk & Co. bid $90,632 on the plans and specifications furnished by the Regents and $80,283 on their own plans and specifications.

C. C. Moore & Co. bid $85,773 on the first proposition and $60,795 on the second.

All bids were taken under advisement.

SAN JOSE AND THE SANTA CLARA VALLEY

SCHOOL—2 story and base, brick and concrete, $50,000. South San Francisco, San Mateo Co., Cal. Architect, W. H. Weeks, 75 Post street, S. F. Owners, South San Francisco School District. Designed for a high school, and will contain class rooms, auditorium, manual training and department for domestic science. Interior finish pine with maple floors. Central heating system and oil burning plant. Exterior faced with pressed brick. Plans being prepared.

MOTION PICTURE STUDIO—1 and 2 story and base, frame, $25,000. San Mateo, San Mateo Co., Cal. Architect, Will H. Toepke, 46 Kearny street, S. F. Owner, Hobart Bosworth. Location, Corporation Yard. Will contain offices, work room and studio. Interior finish pine and redwood. Exterior cement plaster. Preliminary plans being prepared.

Contracts Awarded

STREET IMPROVEMENT—$3,139.89. Hillsborough, San Mateo Co., Cal. Engineer, City Engineer, Hillsborough. Owners, City of Hillsborough. Contractors, Raisch Improvement Co., Crocker Bldg., S. F. Contract price, $3,139.89.

JAIL—2 story and base, reinforced concrete, $45,000. Redwood City, San Mateo Co., Cal. Architect, Will H. Toepke, 45 Kearny street, S. F. Owners, San Mateo County. Contractors, Newsom & Henning, Sharon Bldg., S. F. Contract price, $45,000.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

STREET IMPROVEMENTS — Cost not stated. San Anselmo, Marin Co., Cal. Engineer, Town Engineer, San Anselmo. Owners, Town of San Anselmo. Bids will be opened on July 3rd at 8 p. m. for work authorized under the following resolutions: That the San Francisco Boulevard have a 6-inch, vitrified, ironstone pipe sewer constructed near the San Rafael and Olema road; also two lampholes; also that the San Rafael and Olema road have a 6-inch, vitrified, ironstone pipe sewer constructed and two brick manholes.

SEWER CONSTRUCTION—Cost not stated. Richmond, Contra Costa Co.

Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. The City Council has approved the plans for the installation of sewer work in the Richmond Center Tract. Bids for the sewer work will be opened on Monday, June 26th at 8:30 p. m.. Plans may be had from the City Clerk.

HIGHWAY SURFACING—Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. The Board of Supervisors has ordered bids received up to June 30th for the final surfacing of the Walnut Creek Tunnel road. Plans may be had from the County Clerk.

HIGHWAY CONSTRUCTION — Cost not stated. Martinez, Contra Costa Co., Cal. Engineer, County Surveyor, Martinez. Owners, Contra Costa County. Bids will be opened on June 30th for furnishing materials and labor and placing a wearing surface on Division No. 1 of the Tunnel road, Contra Costa County, a distance of three miles and sixty feet. Also for furnishing material and labor and placing a wearing surface on Division No. 2 of the Tunnel road, Contra Costa County, being a distance of seven miles and fourteen hundred feet.

STREET PAVING—Cost not stated. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Bids have been readvertised by the City Council for the paving of a portion of San Pablo avenue. Bids close June 26th at 8:30 p. m. Plans may be had from the City Clerk at Richmond. The Municipal Improvement Co., to whom the contract was originally awarded for $31,054.57, refused to sign an agreement starting work because of alleged faulty proceedings. According to Henry Wahl, manager of the Municipal Improvement Co., had the work been started his company would have been unable to collect any money for the contract.

HIGHWAY CONSTRUCTION — Cost not stated. San Rafael, Marin Co., Cal. Engineer, County Surveyor, San Rafael. Owners, Marin County. Bids will be opened on July 5th at 2 p. m. for laying "Western Roadlite" or other asphaltic cement pavement upon waterbound macadam highways of Marin County, California, at Fairfax and Kentfield in Road District No. 9.

LODGE HALL AND STORE—4 story, brick and steel, $110,000. Vallejo, Solano Co., Cal. Architect, John Davis Hatch, Humboldt Bank Bldg., S. F. Owners, Vallejo Masonic Hall Association. Location, northwest Marin and Virginia streets, covering an area of 160 by 100 feet. Will contain four stores and an auditorium. Living quarters on the third floor. Exterior faced with pressed brick and terra cotta. Plans being prepared.

Contracts Awarded

BRIDGE—Pile bent type, $2,509.40. Santa Rosa, Sonoma Co., Cal. Engineer, County Surveyor, Santa Rosa. Owners, Sonoma County. Contractors Cell Construction Co., Santa Rosa. Contract price, $2,509.40.

STREET IMPROVEMENTS Cost as follows. Sausalito, Marin Co., Cal. Engineer, Town Engineer, Sausalito. Owners, Town of Sausalito. The following bids were opened and contracts awarded by the Town Trustees at their last meeting: West and Central avenue—Western Motor Drayage Co., $8,075.70. L. L. Page, 18,682.86; Blake Bros., $8,397.09. Engineer's estimate, $9,017.20. The contract was awarded to the Western Motor Drayage Co., 1444 Church street, San Francisco. Paving of North street—Western Motor Drayage Co., $5,123.43; L. L. Page, $5,355.66; Blake Bros., $5,482.31. Engineer's estimate, $5,436.16. The contract was awarded to the Western Motor Drayage Co., 1444 Church street, San Francisco.

STREET IMPROVEMENT—$1,358.50. Sonoma, Sonoma Co., Cal. Engineer, City Engineer, Sonoma. Owners, City of Sonoma. Contractor, E. J. Sundhurg, 215 Oakland Bank of Savings Bldg., Oakland. Contract price, $1,358.50.

SCHOOL ALTERATIONS — Frame, $1,890. Petaluma, Sonoma Co., Cal. Architect's name not given. Owners, City of Petaluma. Contractor, Samuel Rodd, Petaluma. Contract price, $1,890.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

BRIDGE—Reinforced concrete. Cost not stated. Visalia, Tulare Co., Cal. Engineer, County Surveyor, Visalia. Owners, Tulare County. Bids will be received on July 5th at 2 p. m. for the construction of a reinforced concrete bridge over the canal in Section 35, Township 20 south, Range 21 east, Mt. Diablo base and meridian, about 1 mile north of Octol Station, in the Second Supervisorial District.

STREET PAVING—$16,000. Fowler, Fresno Co., Cal. Engineer, City Engineer, Fowler. Owners, City of Fowler. The Fowler Trustees have decided to pave 8th street, which is the link in the State highway system. One-third will be paid by the city, one-third by the county and one-third by the Southern Pacific Railroad. Further mention will be made of this work when bids are called for.

STREET IMPROVEMENTS—Cost not stated. Bakersfield, Kern Co., Cal. Engineer, City Engineer, Bakersfield. Owners, City of Bakersfield. Bids will be opened on June 26th at 5:30 p. m. for street improvements authorized under the following resolutions: That C street, from the south line of California avenue to the north line of Chester Lane; C street from the south line of Chester Lane to the north line of Palm street; Dracena street, from the west line of Oleander avenue to the east line of A street, together with all the intersections of streets and alleys (excepting therefrom such portions as have already been done to the official line and grade) be graded, tamped and rolled between the points hereinbefore designated. That Beale avenue, from the north line of Jackson street to the south line of Flower street, together with all the intersections of streets and alleys (excepting therefrom such portions as have already been done to the official line and grade) be graded, tamped and rolled; that parking spaces, cement concrete curbs and wrought iron pipe culverts be constructed thereon, between the points hereinbefore designated. Bids close June 26th at 5:30 p. m. Plans may be had from the City Clerk.

HIGHWAY CONSTRUCTION — Cost not staetd. Hanford, Kings Co., Cal. Engineer, County Surveyor, Hanford. Owners, Kings County. Three bids were submitted to the County Board of Supervisors for the construction of the unit of improved highway from Guernsey to the Dallas school house, a distance of five miles, and the unit running three miles east of Guernsey. The bids were as follows: Thompson Bros., 1514 H street, Fresno, constructing, grading and shaping road bed, 60 cents per cubic yard; laying base 2½ inches thick, 2½c per square foot; Warrenite top, 2 cents per square foot; guard fencing, 60 cents per lineal foot.

Raisch Improvement Co., 1100 Crocker Bldg., S. F., construction of road bed, 76c per cubic yard; laying base, 2.42c per square foot; guard fencing, 35c per lineal foot; construction of one-course pavement, 38.2c per square foot.

City Street Improvement Co., 166 Geary street, S. F., construction of road bed, 48c per cubic yard; laying base, 4.35c per square foot; Topeka top, 2.2c per square foot; Warrenite top, 4c per square foot; guard fencing, 1 per lineal foot; one-course pavement, 8.53c per square foot. The awarding of the contract was laid over for a few days.

ELECTROLIER SYSTEM—Cost not stated. Fresno, Fresno Co., Cal. Engineer, County Surveyor, Fresno. Owners, Fresno County. Plans and specifications for an electrolier system for Court House Park have been ordered drawn by the Board of Supervisors. Scott McKay, County Surveyor, will make the survey and draw the plans. This is the preliminary step towards an electrolier system corforming to the city system.

HIGHWAY CONSTRUCTION — Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. To determine the class of wearing surface to be used in the completion of the five miles of paved highway now being constructed by the county, one mile at Newman and four miles on the McHenry road, the Supervisors have ordered bids to be advertised for dressings of two thicknesses. Bids for the work will be opened on July 11th. Plans may be had from the County Clerk.

APARTMENT HOUSE ALTERATION —2 story, frame. Cost not stated. Fresno, Fresno Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owner, Mrs. Lotta R. Crone. Location, Calaveras and I streets. Work will consist of interior and exterior alterations and will include plumbing, painting, plastering, electric work and carpentry. Wall beds. Plans being prepared.

SCHOOL—1 story frame. Cost not stated. Jennings, Stanislaus Co., Cal. Architect, none. Owners, Jennings School District. Designed for a district school and will contain one room. Interior finish pine. Exterior shingles. Plans complete and figures being taken. Bids open on June 27th. For plans and specifications address J. M. Cochrane, Clerk, R. F. D., Route D, Box 157, Modesto.

SCHOOL—1 story and base, brick, $20,000. Orosi, Tulare Co., Cal. Architect, E. J. Kump, Rowell Bldg., Fresno. Owners, Orosi School District. Will contain four class rooms and auditorium. Interior finish pine and maple floors. Central heating system. Exterior faced with pressed brick or cement plaster. Plans being prepared.

RESIDENCE — 2 story and base, frame, $2,750. Fresno, Fresno Co., Cal. Architect, none. Owner, Mrs. E. M. Roth, Fresno. Location, East Fresno. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

Contracts Awarded

BRIDGE—Reinforced concrete, $109,498. Modesto, Stanislaus Co., Cal. Engineers, Consulting Engineers Leonard & Day, Rialto Bldg., S. F., and County Surveyor, Modesto. Owners, Stanislaus County. Contractor, C. E. Cotton, 16 California street, S. F. Contract price, $109,498.

SCHOOL AND SHOP—1 story, frame $11,441. Bullard School District, Fresno Co., Cal. Architects, Swartz & Swartz, Rowell Bldg., Fresno. Owners, Bullard School District. Contractor, Emmet R. Riggins, Fresno. Contract price, $11,441.

Receive Figures For Big Modesto Bridge.

Stanislaus County Supervisors Will Award Contract for New Bridge at Wednesday's Meeting.

(By Special Wire)

MODESTO, Stanislaus County, Cal.—Nine sets of figures were opened by the Stanislaus County Board of Supervisors at their meeting held June 13th, for the construction of the new reinforced concrete bridge to be erected over the Tuolumne River at Modesto, designed by Consulting Engineers Leonard & Day, Rialto Bldg., San Francisco, associated with the County Surveyor.

All bids with the exception of those of Charles Cotton, San Francisco and Ernest Green, 201 Poplar street, Modesto, were rejected. A contract will be awarded at Wednesday's meeting of the Board of Supervisors on Proposition No. 1, which calls for the complete structure. Both bids held are very close and the award will probably be made on the unit price per cubic yard for fill, which in Cotton's bid was 75 cents and in Green's was 60 cents. Following is a complete list of the bids received:

	Prop. No. 1	cu. yd
Ernest Green	$109,680	$.60
T. W. McClenahan	119,911	.25
C. E. Cotton	109,498	.75
Ross Constr. Co.	.....	...
Ward & Goodwin	128,900	.95
Peterson & Grier	.....	...
Clinton Constr. Co.	112,000	1.00
Howard S. Williams	114,990	.60
P. Mathiesen	112,250	.50
	Prop. No. 2	**cu. yd.**
Ernest Green	$ 72,000	$.60
T. W. McClenahan	72,298	.20
C. E. Cotton	69,878	.75
Ross Constr. Co.	84,925	.50
Ward & Goodwin	.....	...
Peterson & Grier	81,739	.30
Clinton Constr. Co.	67,700	1.00
Howard S. Williams	72,910	.60
P. Mathiesen	72,738	.40

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

BRIDGE—Suspension type. Cost not stated. Yreka, Siskiyou Co., Cal. Engineer, County Surveyor, Yreka. Owners, Siskiyou County. Plans and specifications prepared by the County Surveyor for the construction of a suspension bridge over the Klamath River on the Quigley road, No. 171, were approved by the Supervisors at their last meeting and bids for the construction of the structure were ordered advertised to close July 3rd at 10 a. m. Plans and specifications may be had from the County Clerk.

HIGHWAY CONSTRUCTION — Cost not stated. Ukiah, Humboldt Co., Cal. Engineer, County Surveyor, Ukiah. Owner, Mendocino County. At the last meeting of the County Supervisors plans and specifications as furnished by the State Highway Commission, were adopted for the construction of a concrete bridge across McNab Creek, bids to be received up to 2 p. m. of July 5th. Plans and specifications and estimates for the proposed new work at Prather Gulch in Anderson Valley, were adopted and bids advertised for 2 p. m. of July 5th. Plans and specifications for the construction of the new picket fence along the new Salmon Creek road were also adopted and bids ordered advertised. Plans may be had from the County Clerk.

BRIDGE—Reinforced concrete and steel, $10,000. Placerville, El Dorado Co., Cal. Engineer, A. V. Saph, Berkeley. Owners, El Dorado County. The Board of Supervisors has authorized Engineer A. V. Saph to prepare plans for a $10,000 bridge to span the American River at Coloma at the site of the old foot bridge. This action was taken after the Supervisors had been advised that a good bridge can be built for that figure. Bids will be called for on approval of the plans.

STATE HIGHWAY CONSTRUCTION, BRIDGE, ETC.—Cost not stated. California. Engineer, State Highway Commission, Forum Bldg., Sacramento. Owners, State of California. Bids will be opened on July 14th at 2 p. m. for the following highway improvements: Marin County, 6 miles, Portland cement; Glenn County, 1 mile, Portland cement, including a reinforced concrete bridge 100 feet long; Ventura County, reinforced concrete bridge with one span 36 feet long. An official proposal appears in another column of this issue.

STREET AND SEWER WORK—Cost not stated. Sacramento, Cal. Engineer City Engineer, Sacramento. Owners City of Sacramento. The City Commission has awarded the contract for the following sewer work to T. E. Clark: The improvement of 15th street from the south line of B street to the north line of G street (except the intersections of 15th and C streets, 15th and D streets, 15th and E streets and 15th and F streets) by removing and disposing of all surplus and refuse material; constructing concrete curb, concrete gutter, placing 6 inch cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached, 3 concrete manholes, complete, with cast iron curbs and covers; reconstructing 131 concrete catchbasins; 8-inch vitrified, ironstone sewer pipe drains; placing 171 linear feet of concrete protective covering over sewer pipe.

T. E. Clark & Henery Construction Co., Elsner Bldg., Sacramento, the improvement of 15th street, from the north line of Y street to the Lower Stockton road, by removing and disposing of all surplus and refuse material; constructing concrete curb, cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached, concrete manholes, complete, with cast iron curbs and covers, reconstructing 4 concrete manholes, 6 and 8-inch vitrified, ironstone sewer pipe drains; grading the roadway from the north line of Y street to a point 40 feet south of the south line of Cypress avenue, and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick and an asphaltic cement flush coat and an asphaltic concrete wearing surface 1½ inches thick.

RESIDENCE — 1 story and base frame, $2,000. Sacramento, Cal. Architect, none. Owner, W. B. Phillips, 109 Cypress avenue, Sacramento. Location, Allen avenue. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile mantels. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

BRIDGES — Reinforced concrete. Cost not stated. Auburn, Placer Co., Cal. Engineer, County Surveyor, Auburn. Owners, Placer County. County Surveyor Conroy's plan for a 94-foot bridge across the ravine on the Dairy Farm road has been accepted by the Supervisors. He was also ordered to present plans and specifications for a bridge across the Auburn ravine at Virginiatown during the July meeting of the Supervisors.

HIGHWAY IMPROVEMENTS — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. The Board of Supervisors has directed the County Surveyor to prepare specifications for grading a portion of the Lord-Ellis road. It also ordered that a call be made for the advertising for bids for the proposed work. Plans may be had from the County Clerk.

STREET IMPROVEMENTS AND SEWER WORK—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on June 27th for street improvements ordered under the following resolutions: That 14th street, from the north line of R street to the north line of W street (except the intersections of 12th and S streets, 12th and T streets, 12th and U streets, 12th and V streets) be improved by removing and disposing of all surplus and refuse material; reconstructing 3 concrete manholes and 1 concrete catchbasins; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick.

That Y street, from the east line of 20th street to the east line of 21st street, be improved by removing and disposing of all surplus and refuse material; constructing concrete curb and concrete gutter; placing 2 cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached;

6-inch, vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick.

That Sacramento avenue, from the south line of Y street to the north line of Magnolia avenue (except the intersection of Orange avenue and Sacramento avenue, the intersection of 33rd street and Sacramento avenue) be improved by removing and disposing of all surplus and refuse material; constructing concrete curb, concrete gutter; placing 6 cast iron gutter drains with 6-inch, vitrified, ironstone sewer pipe elbows attached; 2 concrete manholes, complete, with cast iron curbs and covers; 6 and 8-inch, vitrified, ironstone sewer pipe drains; grading the space between the property line and curb; concrete sidewalk; grading the roadway and constructing thereon an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic concrete wearing surface 1½ inches thick. Further information may be had from the City Clerk.

LODGE HALL—4 story and base. Class A construction, $56,841. Sacramento, Cal. Architect, Carl Werner, Phelan Bldg., S. F. Owners, Sacramento Scottish Rite Hall Association. A complete list of the bids received for this work appears under the heading of Sacramento and Northern California in this issue.

MARKET ALTERATION — $4,000. Sacramento, Cal. Architect, none. Owner, S. W. Waterhouse. Location, 711 J street. Work will consist of interior and exterior alterations. Tile and marble work, plastering and electric work. Plans complete and work to be done by Day Labor.

Contracts Awarded

BRIDGE — Wooden trestle, $1,330. Stockton, San Joaquin Co., Cal. Engineer, County Surveyor, Stockton. Owners, San Joaquin County. Contractor, M. B. White, 722 North San Joaquin street, Stockton. Contract price, $1,330.

BRIDGE—Reinforced concrete. Cost not stated. Ukiah, Mendocino Co., Cal. Engineer, County Surveyor, Ukiah. Owners, Mendocino County. Contractor, Al. Carlson, Ukiah. Contract price not stated.

STREET PAVING—Cost as follows. Willits, Mendocino Co., Cal. Engineer, Town Engineer, Willits. Owners, Town of Willits. The following contracts were awarded by the Trustees at their last meeting: That portion of Main street known as Section 1 be graded and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick, and that hydraulic concrete curbs and gutters be constructed therein. Awarded to A. J. & J. L. Fairbanks, Willits, on their bid of: 1012 linear feet of gutter at 35c per linear foot, $364.70; 900 linear feet of curb at 35c per linear foot, $315; 18,576 square feet of 5-inch paving at 14c per square foot, $2,656.64; 18,976 square feet of asphaltic oil wearing surface at 1.5c per square foot, $284.64.

That portion of Main street known as Section 2 be graded and paved with a pavement consisting of a hydraulic concrete base 5 inches thick and an asphaltic oil wearing surface ½ inch thick. Awarded to A. J. & J. L. Fairbanks, Willits, on their bid of: 128 linear feet of gutter at 35c per linear foot, $44.80; 116.5 linear feet of curb at 35c per linear foot, $40.77; 40,351 square feet of 5-inch paving at 14c per square foot, $5,649.14; 40,351 square feet of asphaltic oil wearing surface at 1.5c per square foot, $605.26; 40,351 square feet of grading subgrade at 1.5c per square foot, $605.26; 32,000 square feet of grading in unpaved area at 1c per square foot, $320; 100 cubic feet concrete in culvert, including corrugated iron top, at $1.50 per cubic foot, $130.30.

HIGHWAY IMPROVEMENT—$5,410. Eureka, Humboldt Co., Cal. Engineer, County Surveyor, Eureka. Owners, Humboldt County. Contractor, H. Padgett, Fields Landing. Contract price, $5,410

Receive Figures For Scottish Rite Hall.

C. J. Guth of Sacramento Will be Awarded Contract. Plans Prepared By Architect Carl Werner.

(By Special Wire)

SACRAMENTO, CAL., June 12th, 1916.—Bids have been opened by the Building Committee of the Sacramento Scottish Rite Hall Association for the general construction of the three-story and basement Class "A" structure, designed by Architect Carl Werner, Phelan Bldg., San Francisco. C. J. Guth, 1516 27th street, Sacramento, presented the lowest figures at $56,841 and was awarded the contract. Construction will be started as soon as the remaining bonds are sold. Following is a complete list of the bids as opened:

General Construction, Sacramento Scottish Rite Hall.

C. J. Guth	$56,841
Howard S. Williams	57,600
P. A. Palmer	57,900
F. L. Hansen	59,628
Siller Bros.	59,740
Elmer Carlson	59,740
W. G. Zelinsky	60,000
W. D. Thornally	60,500
Knolls & Mathewson	61,347
G. A. Wendt	61,844
E. F. Carnahan	62,433
Peter M. Schmidt	62,840
McLaren & Peterson	63,000
W. D. Henderson	63,606
Harvey A. Klyce	66,187
Lange & Bergstrom	66,600
Masow & Morrison	69,185
Mathews Constr. Co.	70,649
J. D. Hannah	71,852

LOS ANGELES AND SOUTHERN CALIFORNIA

HIGHWAY IMPROVEMENT — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on June 27th at 11 a. m. for the improvement of Division 14, Oxnard to Camarillo. Said improvement consisting in part of grading and paving with concrete 4 inches thick and 16 feet wide, a distance of 8.57 miles.

HIGHWAY IMPROVEMENT — Cost as follows. Los Angeles, Cal. Engineer, County Surveyor, Los Angeles. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of July 3, 1916, for improving Section G of the Mint Canyon road. The roadway to be improved wil be approximately 11.82 miles in length, and estimated to cost $184,502, the part to be furnished by the county amounting to $87,888; that by the contractor totaling $91,614. The quantities will include 91,225 cubic yards excavation; 59,462 cubic feet shaping roadbed; 319 cubic yards hauling and placing concrete for culverts and headwalls, Class A; 10,950 pounds steel; 138,783 square yards concrete pavement; 27,800 lineal feet guard fence. The county will furnish 24,868 barrels cement; 10,613 tons sand; 22,382 tons stone; 3,123 tons screenings; 286 tons hydrated lime; 1,652 barrels oil; 4,819,300 gallons water.

WATER SYSTEM EXTENSION—$40,000. Las Vegas, New Mexico. Engineer, Chief Engineer, Salt Lake Railroad, L. A. Owners, Salt Lake Railroad Co. The Salt Lake Railroad Co. is planning to expend about $40,000 additional for water supply pipe lines and reservoirs. A wire-bound, wooden stave duct, with concrete casing will be installed at Faust. It will be about 2½ miles long. At the Lofgreen station a 150,000-gallon reservoir and several thousand feet of pipe will be installed. There will also be a large reservoir built at Green Springs and at Las Vegas. Additional water accommodations and improvements will be made at Las Vegas.

BRIDGE—Reinforced concrete. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received on June 28th at 2 p. m. for the construction of a reinforced concrete trestle bridge across the east channel of the Sespe Creek about one-half mile west of Fillmore, Ventura County, California. The work consists of the construction of a reinforced concrete trestle bridge with timber deck, consisting of 15 spans each 30 feet long, and one reinforced concrete abutment.

RESIDENCE — 2 story and base, hollow tile, $25,000. Redlands, San Bernardino Co., Cal. Architect, Elmer Grey, Wright and Callender Bldg., L. A. Owner's name withheld. Will contain sixteen rooms and five baths. Interior finish hardwood and white enamel. Hardwood floors throughout. Central heating system, oil burning plant and open fire places. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans being prepared.

RESIDENCE—2 story and base, hollow tile. Cost not stated. Pasadena, Los Angeles Co., Cal. Architects, Marsten & Van Pelt, Chamber of Commerce Bldg., Pasadena. Owner, George A. Weber. Will contain fifteen rooms, several baths and sleeping porches. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Central heating system. Bath rooms tile. Vacuum cleaning, hot water circulating system and open fire places. Mantels tile and brick. Exterior faced with cement

[illegible] Plans being prepared.

CHURCH AND PARISH HOUSE—2 story and base, brick, $100,000. Santa Barbara, Santa Barbara Co., Cal. Architect, A. C. Martin, Higgins Bldg., L. A. Owners, Roman Catholic Church. Location, State and Figueroa streets, covering an area of 55 by 145 feet. Will contain a main auditorium, Sunday school rooms and pastor's study. Interior finish pine, hardwood and ornamental plaster. Art glass windows. Central heating system. Parish house will contain fourteen rooms, baths and study. Furnace heat. Exterior faced with cement plaster trimmed with pressed brick and terra cotta. Plans being prepared.

BULKHEAD — Reinforced concrete, $100,000. Venice, Los Angeles Co., Cal. Engineer, City Engineer, Venice. Owners, City of Venice. Bids will be called at once for the construction of a bulkhead along the beach from Salt Air to Vista street. The proposed work is to be done by the Schleuter interlocking slab construction method.

BRIDGE—Reinforced concrete and steel. Cost not stated. Santa Barbara, Santa Barbara Co., Cal. Engineer, County Surveyor, Santa Barbara. Owners, Santa Barbara County. Bids will be received by the Board of Supervisirs up to 10 a. m. of July 3, for the construction of a reinforced concrete bridge across Gaviota Creek at Station No. 148-45 (Gaviota Gorge) on the line of the State highway in the Fourth Road District, in accordance with plans and specifications on file at the office of the County Clerk. Certified check for 10 per cent required. Plans and specifications can be obtained from the Surveyor upon a deposit of $10. C. A. Hunt is the County Clerk and ex-officio Clerk of the Board.

BRIDGE—Reinforced concrete, $50,000. Los Angeles, Cal. Engineer, Chief Engineer, Santa Fe R. R. Co., L. A. Owners, Santa Fe Railroad Co. The Santa Fe Railway Co. is planning the construction of a bridge across Trabuco Creek near San Juan Capistrano to replace a bridge destroyed by high water. The work proposed involves the erection of two 90-foot girder spans, the filling of 680 feet of trestle, and the construction of concrete abutments and one concrete pier. A 650-foot pile and timber dike will also be built to protect the structure. The improvements have not yet been formally authorized.

WATER PIPE—Cost not stated. Los Angeles, Cal. Engineer, Chief Engineer William Mulholland, Knickerbocker Bldg., L. A. Owners, Los Angeles County. Bids will be received by the Board of Supervisors up to 2 p. m. of July 10, 1916, for furnishing water pipe for Los Angeles County Water Works District No. 3, in accordance with specifications which may be obtained at the office of William Mulholland, Chief Engineer.

HIGHWAY CONSTRUCTION — Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be received by the Board of Supervisors up to 11 a. m. of June 28th for grading and constructing culverts on six miles of road, Division 9, Moorpark to Simi. The approximate quantities are: 42,000 cubic yards excavation, including borrow; 35 cubic yards class A concrete; 400 cubic yards class B concrete corrugated iron or reinforced concrete pipe in culverts as follows: 56 lineal feet 12-inch; 204 lineal feet 18-inch; 138 lineal feet 24-inch; 40 lineal feet 30-inch; 148 lineal feet 36-inch; 110 lineal feet 48-inch pipe; relaying 10 lineal feet 12 to 24-inch corrugated iron pipe; 25,000 pounds of reinforcing steel in place. Plans and specifications, blanks, etc., obtainable from office of Highway Commission upon deposit of $3. Certified check of 5 per cent required. J. B. McCloskey is the Clerk.

APARTMENT HOUSE—4 story and base, brick, $40,000. Long Beach, Los Angeles Co., Cal. Architect, F. L. Lindsay, First National Bank Bldg., Long Beach. Owner, D. W. Neet. Location, Magnolia avenue between Ocean and Broadway, covering an area of 50 by 96 feet. Will contain a total of 96 rooms arranged in suites of two and three rooms. Interior finish pine, elm panels and white enamel. Hardwood floors. Steam heat, automatic elevator, hot water system and oil burning plant. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior faced with pressed brick. Plans being prepared.

Contracts Awarded

STREET IMPROVEMENT — $26,934. Ontario, San Bernardino Co., Cal. Engineer, City Engineer, Ontario. Owners, City of Ontario. Contractors, Heinhauer & Kyle, Watts. Contract price, $26,934.

HIGHWAY IMPROVEMENT — $14,636. Riverside, Riverside Co., Cal. Engineer, County Surveyor, Riverside. Owners, Riverside County. Contractors, C. L. Hyde Construction Co., 954 3rd street, San Diego Contract price. $14,636.

IRRIGATION PROJECT — $400,000 East Las Vegas, New Mexico. Engineer's name not given. Owners, Las Vegas Irrigation District. Contractors, Robert C. Storrie Co., 2377 Market street, S. F. Contract price, $400,000.

SCHOOL ADDITION—1 story, brick. $27,726.80. Inglewood, Los Angeles Co. Cal. Architects, Marsh & Howard, 214 Broadway, L. A. Owners, Inglewood School District. Contractors, J. M. Boward & Son Co., Black Bldg., L. A Contract price, $27,726.80.

PORTLAND AND OREGON

SCHOOL—2 story and base, brick, $25,000. Wasco, Ore. Architects, Tourtellotte & Hummel, Rothchild Bldg. Portland. Owners, City of Wasco. Will cover an area of 80 by 131 feet and will contain a number of class rooms besides the auditorium. Interior finish pine and redwood with some maple floors. Central heating system. Exterior faced with pressed brick or cement plaster. Plans complete and figures being taken.

SCHOOL—1 story and base, hollow tile, $20,000. Milwaukee, Ore. Architects, Claussen & Claussen, Macleay Bldg., Portland. Owners, City of Milwaukee. Will contain eight class rooms. Interior finish pine with some maple floors. Central heating system, probably steam heat with oil burning plant. Exterior faced with cement plaster. Plans being prepared.

SCHOOL—2 story and base, brick and concrete. Cost as follows. Baker City, Ore. Architects, Lawrence & [illegible] of Commerce Bldg., Portland. Owners, Baker City. Parker & Banfield, Baker City, presented the low figure for the general construction at $92,238; Fish & Bowen, Eugene, low on the plumbing at $8,226; J. F. Shea low on the heating at $17,058, and Miller & Halls low on the electric work at $4,785. Contracts will be awarded

POST OFFICE—1 story and base Class A construction, $1,000,000. Portland, Ore. Architect, Louis P. Hobart Crocker Bldg., S. F. Owners, United States Government. Bids will be opened on August 7th at 3 p. m., eastern time, for the general construction and for the mechanical equipment for the new federal building at Portland. An official proposal appears in another column of this issue.

SEATTLE AND WASHINGTON

D. C. X EXTENSION—Cost as follows. Seattle, Wash. Engineer, Port of Seattle Commission, Seattle. Owners, City of Seattle. Bids opened by the Port of Seattle Commission for the construction of an extension to the Spokane Street Dock, transit shed, substructure, etc., resulted as follows: Cresoted Piling, 68,750 feet—J. M. Colman Co., $23,313.80; Pacific Cresote Co., $23,313.80. The Hofius Steel and Equipment Co. submitted the lowest bid at $11,007 for the locomotive crane. J. M. Clapp submitted the low bid at $11,100 for the riprap work. All blds were taken under advisement.

WATER SYSTEM—Cost as follows. Aberdeen, Wash. Engineer, City Engineer L. D. Kelsey, Aberdeen. Owners, City of Aberdeen. Preliminary tabulation of the bids opened by the City Council for the construction of the Wishakah waterworks system, show the Harrington-Peters Co., Oriental Bldg., Seattle, low bidders at about $225,000, with the Oregon Engineering and Construction Co. of Portland second, and Holt & Jeffery, Seattle, third. Award of the contract will be made shortly.

SIBERIAN BUSINESS MEN SEEK AMERICAN PRODUCTS.

The Chamber of Commerce of Tchita, in the Province of Transbaikalia, Siberia, has addressed a communication to the United States Department of Commerce, suggesting that the mining region of which it is a center offers at present exceptional opportunities to American business men to develop commercial relations. The communication states that there is a shortage of steel pipes (black and tinned) ranging from ½ to 2½ and 3 inches in width; tools for gold mining, carpenters, etc.; materials for soap manufacture, chemical goods, pharmaceutical preparations, shoe polishes, and stationery.

The Tchita Chamber of Commerce desires catalogues and price lists from American manufacturers, with prices c. i. f. Vladivostok, and information regarding terms of sale. It is also prepared to suggest names of suitable agents for American goods in that community, and maintains a collection of samples for the benefit of local business men.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1816	Nat'l Ice Cream	Carlson	500
1817	Coast Metal	Fleet	500
1818	Norman	Frichetti	400
1819	Nelson	Nelson	2950
1820	Rosenzweig	Alsop	3250
1821	Trumpower	Magnuson	500
1822	Yost	Irvine	675
1823	May	Hamerton	3500
1824	Bevins	Barrett	500
1825	Pyle	Weyranch	400
1826	Coope	Ellingson	1285
1827	Rey	Bourdieu	3640
1828	Lupori	Montani	10500
1829	Cal Sch Mech Art	Trost	13076
1830	Harger	Harger	1500
1831	Same	Same	1500
1832	Glenarm	Brumfield	450
1833	Donovan	Donovan	400
1834	Hoyts	Maisler	400
1835	Martinez	Windfeldt	1000
1836	Hirsch	Hirsch	2000
1837	Huyett	Huyett	600
1838	Heyman	Heyman	1750
1839	Same	Same	1750
1840	Scoble	Scoble	10000
1841	Same	Same	10000
1842	Same	Same	10000
1843	Same	Same	10000
1844	Pharion	Newton	2840
1845	Silva	Davies	3115
1846	Johnson	Johnson	2900
1847	Same	Same	2900
1848	Thake	Hantzsche	4650
1849	Enright Est	Barnes	25000
1850	Davis	Davis	500
1851	Chabot	Walker	500
1852	Douglas Rity	Brumfield	400
1853	Born	Born	4000
1854	Born	Born	5000
1855	Peters	Goodman	400
1856	Huntington	Holt	7540
1857	Lakeside Club	Holland	—
1858	Sinclair	Ruegg	7400
1859	Castaner	Schwarz	4500
1860	Allec	Hillard	2817
1861	Christ Scient	Dombrink	1100
1862	Same	Emanuel	4890
1863	Giselman	Fisher	13909
1864	Laujardiere	Demartini	7300
1865	Anderson	Johnson	5000
1866	Springola	Owner	600
1867	Sesnon	Zelinsky	500
1868	Camera	Giusti	400
1869	Brady	Brady	400
1870	Medus	Medus	1400
1871	Gen Chemical	Owner	750
1872	Bray	Sinnott	450
1873	Ellen	Anderson	800
1874	Gercke	Gercke	600
1875	Shumate's	Holm	400
1876	Nelson	Nelson	450
1877	Dray	Hoin	500
1878	City Hall Rest	W'n Wdk	450
1879	Ghilliazza	Ghilliazza	400
1880	Mingst	Petry	900
1881	Kummer	Baker	600
1882	Hohfeld	Deibel	4735

ADDITION
(1816) NO. 366 GUERRERO. Add cooling plant.
Owner.....National Ice Cream Co. remises.
Architect...Faget Eng. Co., 354 Pine, San Francisco.
Contractor...A. Carlson, 4573 18th, S. F.
COST, $500

ALTERATIONS
(1817) NO. 180 TOWNSEND. Alter factory.
Owner.....Coast Metal Works, 63 Minna, San Francisco.
Architect...None.
Contractor...A. E. Fleet, 1728 Sacramento, San Francisco.
COST, $500

FRAME SHOP, ETC.
(1818) NO. 3773 TWENTY-FOURTH One-story frame shop and concrete foundations, etc.
Owner.....E. P. Norman, 77 Jersey, San Francisco.
Architect...None.
Contractor..Frichetti Bros., 50 Washington, San Francisco.
COST, $400

FRAME DWELLING
(1819) E TWENTY-FIRST AVE 75 S Anza. Two-story and basement frame dwelling.
Owner.....Nelson Bros., 1100 10th Ave., San Francisco.
Architect...None.
Day's work. COST, $2950

FRAME RESIDENCE
(1820) E SEVENTH AVE 175 N Balboa 25x120. All work for two-story and basement frame residence.
Owner.....H. Rosenzweig, 552 McAllister, San Francisco.
Architect...J. C. Hladik, 825 Monadnock Bldg., San Francisco.
Contractor..A. Alsop.
Filed June 10, '16. Dated June 5, '16.
For plans and specifications when contract is received.....$ 50.00
Frame up 762.50
Brown coated 812.50
Finished and accepted..... 762.50
One day after finished and accepted 50.00
Usual 35 days..... 812.50
TOTAL COST, $3250.00
Bond, $1625. Sureties, B. Melano and Albert Jourdain. Limit, 60 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(1821) NO. 51 THIRTLENTH. Cement floor, etc., for dwelling.
Owner.....T. H. Trumpower, Prem.
Architect...None.
Contractor..G. Magnuson, San Bruno.
COST, $500

ADDITION
(1822) NO. 390 CORBETT AVE. Add two rooms.
Owner.....Mrs. J. Yost, Premises.
Architect...None.
Contractor..R. R. Irvine, 3841 18th, San Francisco.
COST, $675

FRAME DWELLING
(1823) S PARNASSUS AVE 25 E Byfield Tract. Two-story and basement frame dwelling.
Owner.....Harold May, 3670 18th, San Francisco.
Architect...None.
Contractor..Wm. C. Hamerton & Son, 1301 Waller, San Francisco.
COST, $3500

ALTERATIONS
(1824) NO. 2092 THIRD. Alter for store and dwelling.
Owner.....Bevins Investment Co., Holbrook Bldg., S. F.
Architect...None.
Contractor..Barrett & Hilp, 424 Sharon Bldg., San Francisco.
COST, $500

ALTERATIONS
(1825) NO. 5 RAIL ROAD AVE. Alter dwelling.
Owner.....Dr. F. S. Pyle, 18 Hill, S. F.
Architect...None.
Contractor..Ernest Weyranch, 827 Dolores, San Francisco.
COST, $400

ALTERATIONS
(1826) NO. 2832 JACKSON. Alterations and additions (frame garage and sleeping porches).
Owner.....Bertha Coope, Premises.
Architect...J. F. Dunn, Monadnock Bldg., San Francisco.
Contractor..Elling Ellingson, 110 Jessie, San Francisco.
Filed June 12, '16. Dated June 8, '16.
Ready for painting.....$500
Completed and accepted..... 463
Usual 35 days..... 322
TOTAL COST, $1285
Bond, none. Limit, 20 days after June 20, 1916. Forfeit, $3. Pans and specifications filed.

FRAME RESIDENCE
(1827) S NEWCOMB AVE 250 E Mendall E 25xS 100. All work for two-story and basement frame residence.
Owner.....Jean Rey, 844 Greenwich San Francisco.
Architect...Chas. Fantoni, 916 Kearny San Francisco.
Contractor..J. B. Bourdieu and M. Pierre Lauchere, 804 Potrero Ave., San Francisco.
Filed June 12, '16. Dated June 6, '16.
Enclosed and roofed.....$910
Brown coated 910
Completed and accepted..... 910
TOTAL COST, $3640
Bond, $1820. Sureties, Michel Mazeris and Remy Lasalle. Limit, 80 days. Forfeit, $2. Plans and specifications filed.

FRAME FLATS
(1828) S VALLEJO 137-6 W Hyde 27-6x137-6. All work except concrete, cement work, grading and painting for three-story and basement frame flats.
Owner.....E. Lupori, 1952 Larkin, San Francisco.
Architect...Italo Zanolini, 604 Montgomery, San Francisco.
Contractor..S. Montani & Co.
Filed June 12, '16. Dated June 10, '16.
Roof on $2625
Brown coated 2625
Completed and accepted..... 2625
Usual 35 days..... 2625
TOTAL COST, $10,500
Bond, $5250. Sureties, Gresortoma Guisti and F Boccelli. Limit, 90 days from recording. Forfeit, $10. Plans and specifications filed.

FRAME DORMITORY
(1829) S SEVENTEENTH 75 W San Bruno W 100xS 100. All work for two-story frame dormitory building.

Owner.....The California School of Mechanical Arts, 17th near Utah, San Francisco.
Architect ...William C. Hays, 1st National Bank Bldg., S. F.
Contractor..Robert Trost, 26th and Howard, San Francisco.
Filed June 12, '16. Dated June 5, '16.
Frame completed 25%
Plastering done..... 25%
Completed and accepted..... 25%
Usual 35 days..... 25%
TOTAL COST, $13,076
Bond, $6538. Surety, The Guardian Casualty & Guaranty Co. Limit, 92 dayls. Forfeit, none. Plans and specifications filed.

DWELLING
(1830) W MADRID 75 S France. One-story and basement frame dwelling.
Owner.....C. H. Harger 672 Madrid, San Francisco.
Architect ...None.
Day's work. COST, $1500

FRAME DWELLING
(1831) W MADRID 100 S France. One-story and basement frame dwelling.
Owner.....C. H. Harger 672 Madrid, San Francisco.
Architect ...None
Day's work. COST, $1500

ELECTRIC SIGN
(1832) NO. 1140 SUTTER. Electric sign.
Owner.....Glenarm Apartments, Prem
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $450

UNDERPIN RESIDENCE
(1833) NO. 2178 POST. Underpin residence.
Owner.....Mrs. A. M. Donovan, 532 Ashbury, San Francisco.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1834) NO. 1423 FILLMORE. Alter store.
Owner.....“Hoyts,” Eddy and Larkin, San Francisco.
Architect ...None.
Contractor..Ben Maisler, 777 Ellis, San Francisco.
COST, $400

ALTERATIONS
(1835) W FOLSOM 65 N 25th. Alterations.
Owner.....R. E. Martinez, 1914 Woolsey, Berkeley.
Architect ...None.
Contractor..W. P. Windfeldt, 2549 Bryant, San Francisco.
COST, $1000

HEATING SYSTEM
(1836) SW MARKET AND FOURTH. Install heating and ventilating system in cafe.
Owner.....H. L. Hirsch, Premises.
Architect ...None.
Day's work. COST, $2000

FRAME DWELLING
(1837) N TEDDY 263-6 W Alpha. One story and basement frame dwelling.
Owner.....C. B. Huyett, 150 Teddy Ave., San Francisco.
Architect ...None.
Day's work. COST, $600

FRAME DWELLING
(1838) SE SAN JOSE AVE 50 SW Liebig. One-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1750

FRAME DWELLING
(1839) E TWENTY-THIRD AVE 250 S Geary. One-story and basement frame dwelling.
Owner.....Oscar Heyman & Bro., 742 Market, San Francisco.
Architect ...None.
Day's work. COST, $1750

FRAME RESIDENCE
(1840) E PRESIDIO AVE 27-8 N Jackson. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny San Francisco.
Day's work. COST, $10,000

FRAME RESIDENCE
(1841) NE PRESIDIO AVE & JACKson. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave. San Francisco.
Architect ...E. E. Young, 251 Kearny San Francisco.
Day's work. COST, $10,000

FRAME RESIDENCE
(1842) E PRESIDIO AVE 94-4 N Jackson. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave. San Francisco.
Architect ...E. E. Young, 251 Kearny, San Francisco.
Day's work. COST, $10,000

FRAME RESIDENCE
(1843) E PRESIDIO AVE 61 N Jackson. Two-story and basement frame residence.
Owner.....Thos. Scoble, 363 14th Ave., San Francisco.
Architect ...E. E. Young, 251 Kearny. San Francisco.
Day's work. COST, $10,000

ALTERATIONS
(1844) NOS. 614-616 LINDEN AVE. All work except electric fixtures for alterations and additions to two-story frame into apartments.
Owner.....F. M. Pharion, 696 Grove, San Francisco.
Architect ...Jno. Kidd, 456 Clipper, San Francisco.
Contractor..John Newton, 165 Franklin San Francisco.
Filed June 13, '16. Dated June 12, '16.
House raised, underpinned and roof on $400
Partitions set & plastering done 400
Trim on, painting and plumbing finished 500
On completion 550
Usual 35 days..... 990
TOTAL COST, $2840
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1845) W FAIR OAKS 24 N 24th. All work for two-story and basement frame residence.
Owner.....M. Silva, 2927 Howard, San Francisco.
Architect ...None.
Contractor..Wm. Davies, 336 25th Ave., San Francisco.
Filed June 13, '16. Dated June 7, '16.
Frame up $780
Brown coated 780
Completed 780
10 days after contractor shows owner all bills paid..... 775
TOTAL COST, $3115
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1846) E TWENTY-SECOND AVE 100 S Clement. Two-story and basement frame dwelling.
Owner.....Johnson & Johnson, 844 14th, San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME DWELLING
(1847) E TWENTY-SECOND AVE 75 S Clement. Two-story and basement frame dwelling.
Owner.....Johnson & Johnson, 844 14th, San Francisco.
Architect ...None.
Day's work. COST, $2900

FRAME FLATS
(1848) W TWENTY-FOURTH AVE 75 S California. Two-story and basement frame (2) flats.
Owner.....L. Thake, 348 Clement, San Francisco.
Architect ...None.
Contractor..G. M. Hantzsche, 528 31st Ave., San Francisco.
COST, $4650

BRICK WAREHOUSE
(1849) S BRYANT 166 W Eighth. Three story brick warehouse.
Owner.....Enright Estate Co., Hotel Montgomery, San Jose.
Architect ...None.
Contractor..F. H. Barnes, 1381 Stevenson, San Francisco.
COST, $25,000

ELECTRIC WIRING
(1850) NO. 1762 PINE. Electric wiring enlarge windows, etc.
Owner.....Mrs. A. M. Davis, 2425 College Ave., Berkeley.
Architect ...None.
Day's work. COST, $500

NEW ROOF
(1851) NO. 310 SACRAMENTO. New roof.
Owner.....Mrs. E. Chabot, Oakland.
Architect ...None.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $500

ELECTRIC SIGN
(1852) GORE EDDY AND MARKET. Electric bulletin sign.
Owner.....Douglas Realty Co., Prem.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $400

FRAME RESIDENCE
(1853) LINCOLN MANOR Lot 20. Two-story and basement frame residence.
Owner.....S. A. Born Bldg. Co., 660 Market, San Francisco.
Architect ...None.
Day's work. COST, $4000

FRAME RESIDENCE
(1815) LINCOLN MANOR Lot 18. Two-story and basement frame residence.

Owner.....S. A. Born Bldg. Co., 661 Market, San Francisco.
Architect ...None.
Day's work. COST, $5000

ADDITION
(1855) NO. 2715 SCOTT. Add garage.
Owner.....J. F. Peters, Premises.
Architect ...John Ralston Hamilton Kohl Bldg., S. F.
Contractor..Geo. Goodman Artificial Stone Co., 62 Post, S. F.
COST, $400

FRAME BUILDING
(1856) W CHERRY 50-4 N Washington N 28 W 67-2¾ S 28-4 —. All work except plumbing, gas fitting and heating apparatus for two-story frame building.
Owner.....Marian Huntington.
Architect ...Hermann Barth, 12 Geary San Francisco.
Contractor..O. C. Holt, 369 14th Ave. San Francisco.
Filed June 14, '16. Dated June 10, '16.
Frame up $1500
Brown coated & roof completed 1400
Interior finish on & doors hung 1200
Completed and accepted..... 1555
Usual 35 days..... 1881
TOTAL COST, $7540
Bond, $3770. Sureties, Oscar W. Thunburg and Chas. H. Hock. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

GOLF LINKS
(1857) VICINITY OF LAKE MERCED leased by Spring Valley Water Wks All work to transport and deliver manure purchased from — Hanson now on Amazon Tract to golf links.
Owner.....Lakeside Golf Links.
Architect ...None.
Contractor..J. P. Holland, 550 3rd, S. F.
Filed June 14, '16. Dated June 12, '16.
Every Friday amount due 90%
Usual 35 days..... 10%
TOTAL COST, $1.60 per cubic yard and to excavate 7000 cubic yards of clay on said Golf Links at 80 cents per cubic yard.
Bond, $4000. Surety, Massachusetts Bonding & Insurance Co. Limit, 105 days. Forfeit, none. Plans and specifications filed.

FRAME STORE AND FLAT
(1858) SW CALIFORNIA & TWENTY-third Ave W 32-6xS 75. All work for two-story frame store and flat.
Owner.....E. A. Sinclair.
Architect .. W. H. Crim Jr., 425 Kearny, San Francisco.
Contractor..Ruegg Bros., Pacific Bldg San Francisco.
Filed June 14, '16. Dated June 8, '16.
Roof on $1850
Brown coated 1850
Completed and accepted..... 1850
Usual 35 days..... 1850
TOTAL COST, $7400
Bond, $3800. Sureties, Agatha Curtaz and Marie L. Ruegg. Limit, 50 days Forfeit, $10. Plans and specifications filed.

ALTERATIONS
(1859) W TWELFTH AVE 250 N Balboa N 25xW 120. All work for alterations and additions to make a residence into two-story and basement frame (2) flats.
Owner.....Jose Castaner, 555 12th Ave., San Francisco.
Architect ...None.
Contractor..Chas. Schwarz, 4617 California, San Francisco.
Filed June 14, '16. Dated June 4, '16.
Frame up $1125
Enclosed and brown coated.... 1125
Completed 1125
Usual 35 days..... 1125
TOTAL COST, $4500
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

WINDOW SASHES, ETC.
(1860) W FOLSOM 198 S 17th W 122-6 xS 150. Steel window sashes of American Steel Window Co. manufacture and steel doors, steel monitor sashes and operating devices for two-story Class "A" reinforced concrete dyeing and cleaning establishment.
Owner.....Jean Allec, 2148 Folsom, San Francisco.
Architect ...August G Headman, Call Bldg., San Francisco.
Contractor..C. J. Hillard Co., Inc., 19th and Minnesota, S. F.
Filed June 14, '16. Dated June 8, '16.
5 days after material is delivered and receipted for.....$1500
Installation of all doors and monitor sashes and acceptance of same 737
Usual 35 days..... 580
TOTAL COST, $2817
Bond, $1410. Sureties, Taylor & Spottswood and Thos. J. Guilfoy. Limit, 42 days. Forfeit, $10. Bonus, $10. Plans and specifications filed.

LEADED GLASS
(1861) N HAIGHT 187-6 E Central Ave E 75xN 137-6. All work for leaded glass work for church building.
Owner.....Third Church of Christ Scientist.
Architect ...Edgar A. Mathews, Phelan Bldg., San Francisco.
Contractor..H. Dombrink Co., Oakland.
Filed June 14, '16. Dated May 8, '16.
Monthly installments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $1100
Bond, $550. Sureties, John F. Stromberg and Sherwood Bird. Limit, 56 days Forfeit, none Plans and specifications filed.

PEWS, ETC.
(1862) ALL WORK FOR PEWS AND platform furniture on above.
Contractor..L. & E. Emanuel, 144 12th, San Francisco.
Filed June 14, '16. Dated ——.
Payments same as above.....
TOTAL COST, $4890
Bond, $2500. Sureties, M. S. Greenberg and Carl F. Merkens. Limit, 80 days from May 31. Forfeit, none. Plans and specifications filed.

FRAME RESIDENCE
(1863) LOT 35 Presidio Terrace. All work for Class "D" frame residence.
Owner.....Mrs. A. M. Giselman, 1710 Golden Gate Ave., S. F.
Architect ...Eugene K. Martin, 2192 Shattuck Ave., Berkeley.
Contractor..Fred P. and L. F. Fisher. 180 Jessie, San Francisco.
Filed June 15, '16. Dated June 6, '16.
Mud sills on foundations.....$1000
Ready for roofing..... 3000
Brown coated 3000
Ready for painter..... 3000
32 days after..... 3909
TOTAL COST, $13,909
Bond, $7000. Sureties, Val Franz and Adam Beck. Limit, 162 days. Forfeit, none. Plans and specifications filed.

FRAME FLATS
(1864) N GREEN 183-4 W Mason W 22-11xN 137-6. All work for three-story and basement frame flats.
Owner.....Eugene Laujardiere, 504 Brush, Oakland.
Architect ...Paul F. De Martini, 2123 Powell, San Francisco.
Contractor..Paul De Martini, 2869 Octavia, San Francisco.
Filed June 15, '16. Dated June 12, '16.
Frame up and rafters on.....$1825
Brown coated 1825
Completed and accepted..... 1825
Usual 35 days..... 1825
TOTAL COST, $7300
Bond, $3650. Sureties, A. P. Giannini and G. B. Cordano. Limit, 90 days from date of laying mud sills. Forfeit, $5. Plans and specifications filed.

FRAME FLATS
(1865) W NINTH AVE 350 S Cabrillo S 25xW 120. All work for two-story frame flats.
Owner.....Hilding Anderson, 2761 16th, San Francisco.
Architect ...None.
Contractor..Chas. Johnson, 2704 Fulton, San Francisco.
Filed June 15, '16. Dated June —, '16.
Frame up $1250
Building plastered 1250
Completed and accepted..... 1250
Usual 35 days..... 1250
TOTAL COST, $5000
Bond, none. Limit, 90 days. Forfeit plans and specifications, none.

ALTERATIONS
(1866) S NOBLES 69 E Grant Ave. Alter flats.
Owner.....F. Springola, Premises.
Architect ...W. H. Armitage, 328 Montgomery, San Francisco.
Day's work. COST, $600

ADDITION
(1867) NO. 2527 DIVISADERO. Add two rooms.
Owner.....W. T. Sesnon, Premises.
Architect ...Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..M. G. Zelinsky, Monadnock Bldg., San Francisco.
COST, $500

ALTERATIONS
(1868) NO. 521 BROADWAY. Alter stairway, etc.
Owner.....E. Camera, Premises.
Architect ...None.
Contractor..S. A. Giusti, 617 Sansome. San Francisco.
COST, $400

ALTERATIONS
(1869) NO. 920 PRESIDIO AVE. New porch, partitions, windows, etc.
Owner.....J. J. Brady, 2689 Post, S. F.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(1870) N MULLEN 205 E Alabama. One-story and basement frame dwlg.
Owner.....Paul Medus, 302 Montcalm, San Francisco.
Architect ...None.
Day's work. COST, $1400

FRAME WAREHUOSE
(1871) NO. 184 HOOPER. Frame warehouse.

Owner.....General Chemical Co., 705 Royal Ins. Bldg., S. F.
Architect ...None.
Day's work. COST, $750

SLEEPING PORCHES
(1872) SW SCOTT AND UNION. Erect three sleeping porches.
Owner.....Mrs. E. S. Tuttle Bray, Monadnock Bldg., S. F.
Architect ...J. C. Hladik, Monadnock Bldg., San Francisco.
Contractor..Richard Sinnott, 1323 Guerrero and Chas. Alsop.
COST, $450

REPAIRS
(1873) NO. 252 SPEAR. Repair fire damage.
Owner.....Mrs. F. Ellen, 1028 Pierce, San Francisco.
Architect ...None.
Contractor..Anderson & Co., 1623 Eddy San Francisco.
COST, $800

FRAME DWELLING
(1874) NE HOWTH 100 NW Mount Vernon. One-story and basement frame dwelling.
Owner.....Elizabeth Gercke, 248 Howth, San Francisco.
Architect ...None.
Contractor..Arthur Gercke, 248 Howth. San Francisco.
COST, $600

MARQUISE
(1875) NO. 508 VALENCIA. Erect marquise.
Owner.....Shumate's Pharmacy, Powell & Sutter, S. F.
Architect ...None.
Contractor..Holm & Merchant, 68 Post. San Francisco.
COST, $400

ALTERATIONS
(1876) NO. 1912 TWENTIETH. Alter dwelling.
Owner.....J. Nelson, 707 Carolina, San Francisco.
Architect ...None.
Day's work. COST, $450

REPAIRS
(1877) NO. 2525 FILLMORE. Repair roof for garden.
Owner.....Dr. F. Dray, Premises.
Architect ...None.
Contractor..Theo. S. Hoin, 1449 Hyde, San Francisco.
COST, $500

ALTERATIONS
(1878) NO. 1203 MARKET. Ratproof, alter stairs, etc.
Owner.....New City Hall Restaurant. Premises.
Architect ...None.
Contractor..Western Hardwood Mfg. Co., 1034 Golden Gate Ave., S. F. COST, $156

ALTERATIONS
(1879) NO. 1807 MASON. Alter for passageway.
Owner.....G. Ghilliazza, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1880) NO. 79 SCOTT. Alter dwelling into (2) flats.
Owner.....C. Mingst, 310 Pierce, S. F
Architect ...None.
Contractor...A. Petry, 336 Pierce, S. F.
COST, $900

ALTERATIONS
(1882) SW FRANKLIN AND California; No. 1801 California. All work for alterations and repairs to frame rooming house.
Owner.....Edw. Hohfeld, Crocker Bldg., San Francisco.
Architect ...J. L. Stewart, 244 Kearny, San Francisco.
Contractor..L. J. Deibel, 1554 Leavenworth, San Francisco.
Filed June 16, '16. Dated June 8, '16. Completed and accepted.....$3581.25
Usual 35 days..... 1193.75
TOTAL COST, $4775.00
Bond, $2500. Surety, Maryland Casualty Co. Limit, July 1, 1916. Forfeit, none. Specifications only filed

LEASE.

June 15, 1916—E MASON 85 N Eddy; No. 124 Mason. Jos N Kowalsky to W T Grimes. 5 years. $37,200.
June 14, 1916—SW MARKET & EIGHTH No. 1203 Market. Adele F Martel and Ethel M Stovel to Steve Glege. 5 years. $10,860.
June 10, 1916—NO. 1703 O'FARRELL S line bet. Fillmore and Steiner Emma Goldsmith to Dr J Fortgang 3 years 8 months. $2340 with option to renew.
June 12, 1916—NO. 2584 THIRD. John H Harder to H Finley. 5 years. $1500.

INCORPORATIONS.

Fine Arts Development Co. Capital Stock, $10,000; subscribed, $3; shares. $1 each. Directors—J. F. McCarthy, S. W. Molkenbuhr, E. J. Egan, 1 share each. Place of business, San Francisco.
Oleo Products Co. Capital Stock, $10,000; subscribed, $100; shares, $10 each. Directors—J L. Ohman, J. J. Egan, G. M. De Lano, J. L. Overmohle, J. H. Cadien, 2 shares each. Place of business, San Francisco.

NOTICE OF NON-RESPONSIBILITY.

June 12, 1916—SW GEARY AND 35TH Ave W 57-6xS 100. C E Ham as to improvements on leased property..

COMPLETION NOTICES.

San Francisco

June 10, 1916—W EIGHTEENTH AV 175 S Judah S 25x120. G H and Maud Morill to Edward A Chick.....June 5, 1916
June 10, 1916—N CASSELLI AVE 150 W Douglass W 33-1xN 121. Clarence R Jeffress to O K Holt.....June 5, 1916
June 10, 1916—S TURK 181-3 W Steiner S 137-6xW 50. San Francisco Dairy Co to A M Wallen.....June 1, 1916
June 10, 1916—E THIRTY-THIRD Ave 275 N Geary 25x120. E H Greslat to George McGlumphy and W Agee (as McGlumphy & Agee).....June 10, 1916
June 10, 1916—S WASHINGTON 40 W Codman Place W 20xS 57-6. Jane J (wife Jas B) Needham to whom it may concern.....June 1, 1916
June 10, 1916—E ELEVENTH AVE 275 N "J" 25x100. Charles E Reinhart to Alex Martinet...June 9, 1916
June 10, 1916—S GROVE 158-9½ W Polk W 25 S 120 E 18 N 10 W 24 N 80. Catherine W Ruddock to W E Greene.....June 9, 1916
June 10, 1916—S CORTLAND AVE 100 W Prospect Ave 25x100. Reinhold Peterlein to P W Montroull.....June 10, 1916
June 12, 1916—W TWENTY-FIFTH Ave 375 N California. Leo J Ruegg to whom it may concern.June 12, 1916
June 12, 1916—NO. 2492 MISSION. Wm Schepplr & Co to Wade & Carlsen.....June 7, 1916
June 12, 1916—SW FIFTEENTH AVE and Balboa S 25xW 77-6. Emil Nelson to whom it may concern.....June 12, 1916
June 12, 1916—LOT 24 BLK 7 Crocker Amazon Tract. Maurice and Lily Levy to whom it may concern.....June 8, 1916
June 12, 1916—S BERNARD 68-6 W Taylor W 23xS 60. Laura Englefield to J M Andersen....June 8, 1916
June 13, 1916—NW PACIFIC AND Stockton 137-6xW 80. G Taleri to Frederick W Snook Co..June 12, 1916
June 13, 1916—NE NAPLES 300 NE France Ave. H W McPherson to whom it may concern..June 13, 1916
June 13, 1916—S CORNWALL 107-6 W 5th Ave. Gus Thunberg and John Johnson to whom it may concern.....June 10, 1916
June 13, 1916—E HAROLD AVE 450 S Bruce S 25xE 112-6; Lot 14 Blk "B" Lakeview. Martha Schumacher to A Weber & C Shaw..June 5, 1916
June 13, 1916—W TWENTY-FIRST Ave 50 S Clement — 50xW 82-6. Johnson & Johnson to whom it may concern.....June 12, 1916
June 13, 1916—S EIGHTEENTH, bet Douglass and Clara Ave; Nos. 4579, 4581 18th. Johanna Sheehan to D J and T Sullivan.....May 5, 1916
June 13, 1916—W TWENTY-SIXTH Ave 300 S Taraval S 25xW 120. Theresa E Whitney to Parkside Home Bldg Co.....June 12, 1916
June 14, 1916—W SEVENTEENTH Ave 425 S Anza S 25xW 120. H S Thomson and O A Schoning to whom it may concern..June 2, 1916
June 14, 1916—NW SEVENTH AVE & Irving 50x52. Jens P Nissum to whom it may concern..June 14, 1916
June 14, 1916—W SEVENTEENTH Ave 375 S Anza S 25xW 120. H S Thomson and O A Schoning to whom it may concern..June 2, 1916
June 15, 1916—N VALLEJO 103-1½ E Divisadero E 34-4½xN 137-6. H R Williar to W T Commary & Co.....June 10, 1916
June 15, 1916—N EIGHTEENTH 174-9 E Guerrero N 100 E 20-0½ S 101 m or l W 28. Margaret Lagan Bourne to Jno Lasure..June 11, 1916
June 15, 1916—S IRVING 72-6 E 11th Ave E 25 —. Mrs A Treibel to G G Gillespie.....June 14, 1916
June 15, 1916—E ELEVENTH AVE 275 S Balboa S 25xE 120. Albert A Saxe to M C Rench.....June 12, 1916
June 15, 1916—SE EIGHTEENTH & Howard E 122-6xS 85. The Roman Catholic Archbishop of S. F. to R A Chisholm.....June 7, 1916
June 15, 1916—W DE HARO 225 N 23rd W 100xN 25. W F and Louisa Siebert to whom it may concern.....June 12, 1916
June 15, 1916—S SUTTER 115-9 F Powell S 137-6xE 45-6. Pacific Gas & Electric Co to Hughson & Merton, Inc .....June 10, 1916
June 15, 1916—E CHURCH 24-6½ N Duncan 25-2½x75. Frances Giomi to A Camilli.....June 14, 1916
June 15, 1916—W COLE 25 N Rivoli

N 25xW 100. Owen Hughes to David Condon.....June 15, 1916

June 16, 1916—W TWENTY-EIGHTH Ave 181 N California N 25xW 120. Harry B and Laurence D Allen to whom it may concern..June 16, 1916

June 16, 1916—W TWENTY-EIGHTH Ave 131 N California N 25xW 120. Harry B and Laurence D Allen to whom it may concern..June 16, 1916

June 16, 1916—W TWENTY-EIGHTH Ave 156 N California N 25xW 120. Harry B and Laurence D Allen to whom it may concern..June 16, 1916

June 15, 1916—N SUTTER 82-6 W Folk N 120xW 27-6. A A Myers to O W Britt.....June 15, 1916

June 16, 1916—EXPOSITION SITE. Southern Pacific Co to D J Dolan Wrecking & Construction Co..... .....June 6, 1916

June 16, 1916—W TWENTY-FIFTH Ave 275 S Judah S 50xW 120. Dominic Tiscornia to whom it may concern.....June 12, 1916

June 16, 1916—NW ELEVENTH AND Harrison N 100 W 88-9 S 100 E 73-3. Joseph Serer to whom it may concern.....June 16, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

June 12, 1916—LOT 5 BLK 13, Crocker Amazon Tract. Incandescent Supply Co vs W G and Emma C Smith $15.50

June 12, 1916—S POST 63-6 W Buchanan W 24xS 87-6. Nathaniel Boyce, $52.50; Hart-Wood Lumber Co, $81.14; The Mission Marble Works, $40.70 vs Tillie and I Weinstein and Bay City Bldg Co.....

June 12, 1916—N SACRAMENTO 146-6 W Taylor W 27-6xN 120. J K Stewart vs Henry Conrad and Jos Bacciocco $120

June 12, 1916—S POST 63-6 W Buchanan W 24xS 87-6. M Stulsaft Co vs Tillie and I Weinstein, Bay City Bldg Co and Chas Christiansen... .....$64.78

June 12, 1916—E DOLORES 76-6 N Liberty N 49-6xE 105. Thomas A Clark vs W F Greany.....$150

June 13, 1916—S POST 63-9 W Buchanan W 24xS 87-6. Dolan Wrecking & Constr Co vs I and T Weinstein, Bay City Bldg Co and John Doe Patterson $373.83

June 13, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Holbrook, Merrill & Stetson vs Jos Bacciocco, Henry Conrad, J J Seibert and C R Danziger (as Seibert & Co)....$484.42

June 13, 1916—E SHOTWELL 95 N 21st S 30xE 122.6. Acme Lumber Co vs A Chazel and G Cavaglierl.. .....$362.55

June 14, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. M Stulsaft Co vs Elizabeth S Ellinwood, Henry E Routh and George N Zaro $686

June 14, 1916—E DIVISADERO 102-8¼ N Jackson N 25 E 110 S 25 W 110. George N Zaro vs Elizabeth S Ellinwood and Henry E Routh $952.30

June 14, 1916—S POST 63-6 W Buchanan W 24xS 76. B Melano vs Tillie and I Weinstein and Bay City Bldg Co.....$100

June 14, 1916—NW DOUGLASS AND Elizabeth N 26-6xW 100. Terranova Bros vs Abraham and Clara Lenn and W H Nielsen.....$210

June 14, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. Terranova Bros vs Elizabeth S Ellinwood and Henry E Routh....$343.50

June 14, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Jen Mikkelsen vs Henry Conrad and Joseph Bacciocco $405

June 14, 1916—W SAN CARLOS AVE 219 N 19th N 20-6xW 80. Beach Elec Co vs John F and (wife) Rae Haner $85

June 15, 1916—S POST 63-6 W Buchanan W 24xS 87-6. J W Bender Roofing & Paving Co vs Bay City Bldg Co and Tillie and I Weinstein $50

June 15, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Herman Lawson vs Joseph Bacciocco and Henry Conrad $354

June 15, 1916—E DIVISADERO 102-8¼ N Jackson N 25 E 110 S 25 W 110. Hauptman Lmbr Co, $315.76; P A Smith, $57.77 vs Elizabeth S Ellinwood and Henry E Routh...

June 16, 1916—N SACRAMENTO 119-2 W Taylor N 120xW 27-6. Philip J Millerick vs Henry Cailleaud Jr $225

June 16, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Philip J Millerick vs Jos Bacciocco..$162.47

June 16, 1916—W NINETEENTH AVE 100 N Ulloa (U) N 33-4xW 120. Spring Valley Lumber Yard vs St. Clair V Irwin and C C Higgins & Son $1351.60

June 16, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. Wyatt Bros vs Elizabeth S Ellinwood and Henry E Routh.....$110.50

June 16, 1916—NE EXCELSIOR AVE 50 SE Madrid SE 25x100. S Ginsberg & Co vs Mrs C A Ware and Jas H Hardy, Inc.....$10

June 16, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 100. Spencer St. Planing Mill vs Henry E Routh and Elizabeth S Ellingwood..$609.95

June 16, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Holbrook, Merrill & Stetson vs Carrie Green, J J Siebert and C R Danziger (as Siebert Co).....$147.46

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1438	Duke	Button	3800
1439	Garretson	Garretson	2500
1440	Buhman	Buhman	450
1443	Rogers	McCoy	2300
1444	Same	Same	2300
1445	Woodward	McPhee	500
1446	Goranson	Goranson	2000
1447	Kerr	Kerr	500
1448	Klein	Klein	2500
1449	Watts	Zolski	500
1450	Sandow	Pratt	500
1453	Foreman	Janson	825
1456	Maciel	Dutra	2920
1463	Grandin	Grandin	2250
1464	Glantz	Glantz	1600
1465	Same	Same	1600
1466	Margin	Christensen	500
1467	Same	Same	500
1468	Same	Same	650
1469	Same	Same	500
1470	Curtis	Wooley	4500
1471	Preiss	Bergen	1600
1472	Smith	Whalin	22750
1473	Booth	Allen	1797
1474	King	Bergen	1800
1480	Woodward	Woodward	3500
1486	Silverstein	Griffin	400
1487	Morris	Morris	1600
1488	Ferguson	Wells	1500
1490	Hearst	Bruce	3186
1491	Wiser	Wiser	2500
1492	McAllister	Hopper	3000
1493	Shredded Wheat	Stock	2000
1494	Campbell	Corbett	1000
1495	Clark	Dexter	1550
1496	Tobin	Heaphy	600
1497	Blunck	Blunck	400
1498	Maysounave	Legris	2000
1499	Hart	Dalziel	1535
1502	Taylor	W'n Constr	1168
1503	King	Bergen	1800

FRAME DWELLING

(1438) LOTS 3 AND 4 and NE 37.50 Lot 25 Map Claremont Oaks, Oakland. All work for two-story frame dwelling.

Owner.....Ethel T. Duke, 5326 Claremont Ave., Oakland.

Architect ...None.

Contractor..I. W. Button, 347 63rd, Oakland.

Filed June 10, '16. Dated June 9, '16.

Frame up	¼
Plastered	¼
Completed	¼
Usual 35 days	¼

TOTAL COST, $3800

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING

(1439) W PERALTA AVE opp Delaware, Oakland. One-story 6-room dwelling.

Owner.....John D. Garretson, Syndicate Bldg., Oakland.

Architect ...M. I. Diggs, Syndicate Bldg., Oakland.

Day's work. COST, $2500

ADDITION

(1440) NO. 3452 CHAMPION, Oakland. Addition.

Owner.....P. Buhman, Premises.

Architect ...None.

Day's work. COST, $450

DWELLING

(1443) W TENTH AVE 23 S E-28th, Oakland. One-story 6-room dwelling.

Owner.....Jennie E. Rogers.

Architect ...None.

Contractor..C. H. McCoy, 2903 Shattuck Ave., Oakland.

COST, $2300

DWELLING

(1444) W TENTH AVE 200 S E-28th, Oakland. One-story 6-room dwelling.

Owner.....Jennie E. Rogers.

Architect ..None.

Contractor..C. H. McCoy, 2903 Shattuck Ave., Oakland.

COST, $2300

ALTERATIONS

(1445) NO. 533 THIRTEENTH, Oakland. Alterations.

Owner.....F. J. Woodward, Oakland Bank of Savings Bldg., Okd

Architect ...None.

Contractor..A. J. McPhee, 2144 E-27th, Oakland. COST, $500

DWELLING

(1446) E LAGUNA AVE 260 S Hopkins, Oakland. One-story 5-room dwelling.

Owner.....H. Goranson, 431 48th, Okd.

Architect ...None.

Day's work. COST, $2000

ADDITION

(1447) NO. 3217 TWENTY-THIRD Ave., Oakland. Addition.

Owner.....Mrs. Emma Kerr, Premises.

Architect ..None.

Contractor..A. E. Kerr, East Oakland.

COST, $500

(1448) S EL CENTRO 144 W Clarke Ave., Oakland. One-story 6-room dwelling.

Owner.....Mathew Klein, 6511 Raymond, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(1449) S DERBY 75 W Jones Ave. Oakland. One-story 3-room dwelling
Owner.....E. Watts.
Architect ...None.
Contractor..W. S. Zolski, 10451 Edes Ave., Oakland.
COST, $500

GARAGE
(1450) NO. 297 LEE, Oakland. One-story 3-room garage.
Owner.....Dr. Sandow, Premises.
Architect ...None.
Contractor..Pratt & Tuttle, Rm. No. 33 Maryland Apts., Oakland.
COST, $500

MARQUISE
(1453) NE TWELFTH AND WASHington, Oakland. Marquise.
Owner.....Foreman & Clark, Prem.
Architect ...Richardson & Burrell, Albany Bldg., Oakland.
Contractor..Janson Iron Works, 6408 San Pablo Ave., Oakland.
COST, $825

DWELLING ETC.
(1456) NEAR CATHOLIC CEMETERY on tract of land known as Cameron Ranch, 1½ miles from Centerville All work for one-story 6-room dwelling and water plant.
Owner.....M. V. Maciel, Centerville.
Architect ...None.
Contractor..A. S. Dutra, Irvington.
Filed June 13, '16. Dated June 1, '16.
Roof sheathed ..... ¼
Interior plastered and chimney erected ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2920
Bond, none. Limit, 90 days. Forfeit $5. Plans and specifications filed.

DWELLING
(1463) W ADELINE 100 N 56th, Oakland. One-story 6-room dwelling.
Owner.....Edward Grandin, 1533 Prince, Berkeley.
Architect ...None.
Day's work. COST, $2250

DWELLING
(1464) S EIGHTY-SEVENTH AVE 125 N Holly, Oakland. One-story 5-room dwelling.
Owner.....C. W. Glantz, 1932 88th Ave., Oakland.
AArchitect ...None.
Day's work. COST, $1600

DWELLING
(1465) E EIGHTY-SIXTH AVE 285 N Holly, Oakland. One-story 5-room dwelling.
Owner.....C. W. Glantz, 1932 88th Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

ALTERATIONS
(1466) NO. 320 HAWTHORNE, Oakland Alterations.
Owner.....August E. C. Margin Est. NE Hawthorne & Broadway, Oakland.
Architect ...None.
Contractor ..A. B. Christensen, 2855 Jackson, Alameda.
COST, $500

ALTERATIONS
(1467) NO. 3325 BROADWAY, Oakland Alterations.
Owner.....August E. C. Margin Est. NE Hawthorne & Broadway, Oakland.
Architect ...None.
Contractor..A. B. Christensen, 2855 Jackson, Alameda.
COST, $500

ALTERATIONS
(1468) NO. 3321 BROADWAY, Oakland
Owner.....August E. C. Margin Est. NE Hawthorne & Broadway, Oakland.
Architect ...None.
Contractor..A. B. Christensen, 2855 Jackson, Alameda.
COST, $650

ALTERATIONS
(1469) NO. 324 HAWTHORNE, Oakland Alterations.
Owner.....August E. C. Margin Est., NE Hawthorne & Broadway, Oakland.
Architect ...None.
Contractor..A. B. Christensen, 2855 Jackson, Alameda.
COST, $50

DWELLING
(1470) W CARLTON 50 N Belgrave Place, Oakland. Two-story 8-room dwelling.
Owner.....W. H. Curtis, S. F.
Architect ...M. J. Diggs, Syndicate Bld Oakland.
Contractor..Woolcy & Rich, 4208 Lusk Oakland.
COST, $1500

DWELLING
(1471) E SEMINARY AVE 175 S Taylor, Oakland. One-story 6-room dwlg
Owner.....Preiss & King, 414 15th Oakland.
Architect ...None.
Contractor..O. L. Bergen, 3401 Champion, Oakland.
COST, $1600

BRICK GARAGE
(1472) SE TWENTY-SIXTH AND Broadway, Oakland. One-story brick garage.
Owner.....W. A. Smith, 920 Kingston Ave., Oakland.
Architect ...None.
Contractor..W. E. Whalin, 565 16th Oakland.
COST, $22,750

BRICK GARAGE
(1473) E TELEGRAPH AVE 70 from N line 36th E 110xN 55, Oakland Wood work, mill work, glass and glazing, hardware and iron work except sheet metal work for one-story brick garage.
Owner.....Charles S. Booth, 580 2nd Oakland.
Architect ...Thomas & Oliver, Pantages Bldg., Oakland.
Contractor..F. E. Allen, 3133 Market Oakland.
Filed June 13, '16. Dated June 9, '16.
Truss work completed..... ...$441
Roof completed 441
Completed and accepted..... 449
36 days after..... 450
TOTAL COST, $1797
Bond, $898.50. Surety, Fidelity & Deposit Co. Limit, 30 days. Forfeit, none. Plans and specifications filed.

FRAME DWELLING
(1480) E SAN CARLOS AVE Lot 170 Nova Piedmont, Piedmont. Two-story frame dwelling.
Owner.....E. W. Woodward, 341 13th, Oakland.
Architect ...None.
Day's work. COST, $3500

ALTERATIONS
(1486) NO. 724 GRAND AVE., Oakland. Alterations.
Owner.....H. Silverstein, Premises.
Architect ...None.
Contractor..C. M. Griffin, 746 5th Ave. Oakland.
COST, $100

DWELLING
(1487) W HIGH 140 S Santa Rita Ave., Oakland. One-story 5-room dwlg. room dwelling.
Owner.....Annie D. Morris, 214 Kains Ave., Albany.
Architect ...None.
Contractor..R. Morris, 214 Kains Ave., Albany. COST, $1600

DWELLING
(1488) S CHERRY 100 E 96th Ave., Oakland. One-story 5-room dwelling
Owner.....Geo. Ferguson, 2129 96th Ave., Elmhurst.
Architect ...None.
Contractor..E. E. Wells, 8724 E-14th Elmhurst.
COST, $1500

OUTFALL SEWER, ETC.
(1490) HEARST RANCH known as "Hacienda," near Pleasanton. All work for outfall sewer and disposal works.
Owner.....Mrs. P. A. Hearst by R. A. Clark, Agent, Pleasanton.
Architect ...Haviland & Tibbets, Alaska Commercial Bldg., San Francisco.

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If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francirco**

Contractor..C. A. Bruce, Pleasanton.
Filed June 14, 16. Dated May 29, 16.
Monthly payments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $3186.90
Bond, $1600. Sureties, J. R. Cruikshank and Jos. Lewis. Limit, 90 days. Forfeit, $10. Plans and specifications filed.

FRAME DWELLING
(1491) S RICADO AVE., Piedmont. One-story frame dwelling.
Owner.....Eunice C. Wiser, 5601 Edgerly, Oakland.
Architect...None.
Contractor..G. J. Wiser, 1468 55th Ave., Oakland.
COST, $2500

FRAME DWELLING
(1492) S MANOR DRIVE 350 S Arroyo Ave., Piedmont. Two-story frame dwelling.
Owner.....C. A. McAllister, 4150 Piedmont Ave., Oakland.
Architect...None.
Contractor..Hopper & Son, 90 Glen Ave., Oakland.
COST, $3000

CONCRETE WATER TANK
(1493) W UNION 225 N 12th, Oakland. Reinforced concrete water tank.
Owner.....Pacific Coast Shredded Wheat Co., Syndicate Bldg Oakland.
Architect...None.
Contractor..Lester H. Stock, Hearst Bldg., San Francisco.
COST, $2000

ALTERATIONS
(1494) NO. 469 THIRTEENTH, Oakland. Alterations.
Owner.....Campbell Grocery Co., 29th and Broadway, Oakland.
Architect...None.
Contractor..Corbett & Bayliss, 1110 Franklin, Oakland.
COST, $1000

DWELLING
(1495) W HARRIETT 300 S Hillside, Oakland. One-story 5-room dwlg.
Owner.....Harry A. and Clara P. Clark.
Architect...None.
Contractor..A. R. Dexter, 2212 Grove, Oakland.
COST, $1550

ALTERATIONS
(1496) NO. 1540 ADELINE, Oakland. Alterations.
Owner.....E. J. Tobin & Co., Prem.
Architect...None.
Contractor..J. J. Heaphy, 1721 Lombard, San Francisco.
COST, $600

ALTERATIONS
(1497) NO. 1238 EIGHTH, Oakland. Alterations.
Owner.....Blunck Bros., Premises.
Architect...None.
Day's work. COST, $400

DWELLING
(1498) S THIRTY-EIGHTH 270 E San Pablo Ave., Oakland. All work for one-story 5-room dwelling.
Owner.....P. Maysounave, 1075 7th Oakland.
Architect...None.
Contractor..L. H. Legris, 612 44th, Okd.
Filed June 15, '16. Dated June 14, '16.
Frame up ..... ¼
Brown coated ..... ¼
Ready for paint..... ¼
Completed and accepted..... ¼
TOTAL COST, $2000
Bond, none. Limit, 60 days. Forfeit, $1. Plans and specifications filed.

ADDITION
(1499) ALVARADO ROAD S Claremont, Oakland. Sheet metal, steel and iron for conservatory addition to dwelling.
Owner.....Howard Hamilton Hart, Premises.
Architect..Arthur S. Bugbee, 1684 Washington, San Francisco
Contractor..Robert Dalziel Jr., 215 Washington, Oakland.
Filed June 15, '16. Dated June 13, '16.
Delivery at job.....$576
Completed and accepted..... 576
Usual 35 days..... 383
TOTAL COST, $1535
Bond, none. Limit, 20 days. Forfeit, none. Plans and specifications filed.

CONCRETE PAVEMENT ETC.
(1502) NW SEMINARY AVE 204.23 SW Trask SW 135.36 NW 321.80 NE 135.36 SE 321.80, Oakland. Concrete pavement, curb, sidewalk, 8 in. by 5 in. sewer, manhole and lamphole.
Owner.....A. Miles Taylor, Head Bldg San Francisco.
Architect...None.
Contractor..Western Constr. Co., Russ Bldg., San Francisco.
Filed June 16, '16. Dated June 3, '16.
60 days after completed and accepted $1168
TOTAL COST, $1168
Bond, limit, forfeit, none. Plans and specifications filed.

DWELLING
(1503) LOT 5 BLK 9, Eastlawn Tract, Oakland. All work for one-story 6-room dwelling.
Owner.....Harry Preiss and Walter S. King, 3418 Park Blvd. Oakland.
Architect...None.
Contractor..O. L. Bergen, 3403 Champion, Oakland.
Filed June 13, '16. Dated June 12, '16
As work progresses..... ¼
As work progresses..... ¼
As work progresses..... ¼
Usual 35 days..... ¼
TOTAL COST, $1800
Bond, $900. Sureties, J. A. Kellogg & C. M. Carter. Limit, 90 days after June 15. Forfeit, $5. Plans and specifications filed.

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1441	Albee	Allen	400
1442	Miller	Miller	2000
1451	McCarley	McCarley	500
1452	City of Berkeley	Owner	1000
1454	McNaughton	Mason	1500
1455	Univ of Cal	Day	29099
1457	Peterson	Peterson	3500
1458	Ditzler	Kollmer	500
1459	Parker	Butterfield	400
1460	Whiting	Bachelder	2400
1461	Bishop	Bachelder	700
1462	Same	Same	850
1474	Perkeley	Pratt	500
1475	Same	Same	500
1476	Earll	Patterson	1000
1477	Hunt	Pearson	400
1478	Claremont	Allen	800
1479	Melch	Allen	1700
1489	Pett	Turner	10320
1500	Barnett	Lovsie	1200
1501	Foster	Mason	3000

ADDITION
(1441) NO. 2501 RIDGE ROAD, Berkeley. Addition.
Owner.....M. P. W. Albee, 2185 Shattuck Ave., Berkeley.
Architect...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $400

FLATS
(1442) NO. 3360 KING, Berkeley. Two story 9-room flats.
Owner.....E. D. Miller, 1405 Fairview, Berkeley.
Architect...None.
Day's work. COST, $2000

REPAIRS
(1451) NO. 1116 SPRUCE, Berkeley. Repairs.
Owner.....Mrs. C. W. McCarley, San Jose, Cal.
Architect...None.
Day's work. COST, $500

FINISH SCHOOL ROOM
(1452) OXFORD SCHOOL, Berkeley Finish school room.
Owner.....City of Berkeley Board of Education, 2133 Allston Way, Berkeley.
Architect...None.
Day's work. COST, $1000

DWELLING
(1454) S DELAWARE 110 W Short Berkeley. One-story 5-room dwlg.
Owner.....W. H. McNaughton, 2328 Fulton, Berkeley.
Architect...None.
Contractor..Mason-McDuffie Co., Shattuck & Addison, Berkeley.
COST, $1500

LIGHTING FIXTURES
(1455) UNIVERSITY OF CALIFORNIA Campus, Berkeley. Furnishing and installing lighting fixtures for Wheeler Hall and the Library.
Owner.....University of California.
Architect...John Galen Howard, 604 Mission, San Francisco.
Contractor..Thos. Day & Co., 725 Mission, San Francisco.
.....COST, $29,099.76

LODGING HOUSE
(1457) SEVENTH AND CARLTON, Berkeley. Two-story 14-room lodging house.
Owner.....Alfred Peterson, 920 Pardee, Berkeley.
Architect...None.
Day's work. COST, $3500

ALTERATIONS
(1458) NO. 50 UPLANDS, Berkeley. Alterations.
Owner.....F. L. Ditzler.
Architect...None.
Contractor..Jacob Kollmer, 2813 Stuart Berkeley. COST, $500

ALTERATIONS
(1459) NO. 2462 SHATTUCK AVE., Berkeley. Alterations.
Owner.....Barker Est., 2021 Dwight Way, Berkeley.
Architect...None.
Contractor..Butterfield & Barker, 2474 Shattuck Ave., Berkeley.
COST, $400

DWELLING
(1460) S MARIN 200 E Shattuck Ave. Berkeley. Two-story 7-room dwlg.

Owner.....Homer Whiting, 3071 Bateman, Berkeley.
Architect ...None.
Contractor..M. A. Bachelder, 1638 Carlton, Berkeley.
COST, $2400

DWELLING
(1461) NO. 2021 VIRGINIA, Berkeley One-story 2-room dwelling.
Owner.....S. C. Bishop, Premises.
Architect ...None.
Contractor..M. A. Bachelder, 1638 Carlton, Berkeley.
COST, $700

ALTERATIONS
(1462) NO. 2021 VIRGINIA, Berkeley Alterations to building.
Owner.....S. C. Bishop, Premises.
Architect ...None.
Contractor..M. A. Bachelder, 1638 Carlton, Berkeley.
COST, $850

SHINGLE ROOF
(1474) DWIGHT WAY nr Telegraph, Berkeley. Shingle roof of McKinley School.
Owner.....Berkeley Board of Education, Hall of Records, Bkly
Architect ...None.
Contractor..E. P. Pratt, 2133 Allston Way Berkeley.
COST, $500

SHINGLE ROOF
(1475) VIRGINIA COR. MILVIA, Berkeley. Shingle roof of Whittier School.
Owner.....Berkeley Board of Education, Hall of Records, Bkly
Architect ...None.
Contractor..E. P. Pratt, 2133 Allston Way, Berkeley.
COST, $500

ALTERATIONS
(1476) NO. 2523 VIRGINIA, Berkeley. Alter dwelling into apartments.
Owner.....F. E. Earll, Premises.
Architect ...None.
Contractor..Joseph Pattison, 925 The Alameda, Berkeley.
COST, $1000

ADDITION
(1477) NO. 2625 RIDGE ROAD, Berkeley. Addition.
Owner.....Jessie Easton Hunt, Prem.
Architect ...None.
Contractor..Ben Pearson, 2403 Grant, Berkeley.
COST, $400

ADDITION
(1478) NO. 214 HILLCRSET ROAD, Berkeley. Addition.
Owner.....Claremont Assembly Association, Premises.
Architect ...None.
Contractor..F. E. Allen, 468 34th, Okd.
COST, $800

GARAGE, ETC.
(1479) NO. 2733 CLAREMONT BLVD., Berkeley. Garage and add to dwlg.
Owner.....S. B. Melch, 2705 Derby, Berkeley.
Architect ...None,
Contractor..F. E. Allen, 468 34th, Okd.
COST, $1700

PLUMBING, ETC.
(1489) S CARLTON 240.36 from W ln Seventh W 969.52 SW 408.52 NE 969.50 NW 409.31, Berkeley. Plumbing and outside hydrant fire protection system for three factory buildings.
Owner.....Peet Bros. Mfg. Co., by Agt P. J. Walker Co., Monadnock Bldg., S. F.
Architect ...None.
Contractor..The Turner Co., 278 Natoma, San Francisco.
Filed June 14, '16. Dated June 12, '16.
1st day of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $10,320
Bond, $5160. Surety, Massachusetts Bonding & Insurance Co. Limit, as soon as possible. Forfeit, none. Plans and specifications filed.

DWELLING
(1500) N WOOLSEY 40 W Tremont, Berkeley. One-story 5-room dwlg.
Owner.....Ellen Barnett, 2123 Shattuck Ave., Berkeley.
Architect ...None.
Contractor..A. F. Loysie, 619 63rd, Oakland.
COST, $1200

DWELLING
(1501) E MARIN AVE 50 E Lassen, Berkeley. Two-story 6-room dwlg.
Owner.....Fred E. Foster, Morrill Apmnts., Haste & Shattuck, Berkeley.
Architect ...None.
Contractor..Mason-McDuffie, Shattuck and Addison, Berkeley.
COST, $3000

Building Contracts Awarded

Alameda

1481	Champion	Tucker	800
1482	Soltan	Soltan	500
1483	Krusi	Krusi	500
1484	Ray	Ray	550
1485	Roth	Roth	2000

DWELLING
(1481) NO. 1059 SAN ANTONIO AVE., Alameda. One-story 3-room dwlg.
Owner.....Edwin Champion, 1057 San Antonio Ave., Alameda.
Architect ...None.
Contractor..J. H. Tucker, 144 Bay St. Alameda.
COST, $800

ADDITION
(1482) NO. 2917 LINCOLN AVE., Alameda. Addition.
Owner.....John Soltan, Premises.
Architect ...None.
Day's work. COST, $500

ALTERATIONS
(1483) NE BUENA VISTA AVE AND Eighth, Alameda. Alterations.
Owner.....Ida M. Krusi, 2033 Central Ave., Alameda.
Architect ...None.
Day's work. COST, $500

FRAME STORE
(1484) NO. 1102 LINCOLN AVE., Alameda. One-story frame store.
Owner.....Chas. Ray, 1004 Lincoln Ave., Alameda.
Architect ...None.
Day's work. COST, $550

DWELLING
(1485) NO. 2263 ENCINAL AVE., Alameda. One-story 5-room dwelling.
Owner.....C. Roth, 2117 Pacific Ave., Alameda.
Architect ...None.
Day's work. COST, $2000

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED

June 10, 1916—LOT 7 BLK "B" Lincoln Park Tct, Piedmont. Stephen M Osborn to A R Dexter.June 10, '16

June 10, 1916—LOTS 15 AND 16 BLK 7 Map Highland Park Terrace, Okd. E W Horne to Hugh Tullock.....June 10, 1916

June 10, 1916—N PROSPECT AVE, being SE 20 Lot 5 and NW 15 Lot 6 Blk "E" Map Broadway Terrace, Okd. R H Banning and James E Stewart to whom it may concern..Completed —, 1916

June 10, 1916—N 20-10 LOT 4 and S 18-4 Lot 5 Blk "D" Map Broadway Terrace, Okd. R H Banning and Jas E Stewart to whom it may concern.....Completed —, 1916

June 10, 1916—LOT 7 SE 10 Lot 6 Blk "E" Map Broadway Terrace, Okd. R H Banning and Jas E Stewart to whom it may concern.....Completed —, 1916

June 10, 1916—ASHBY AVE — W Piedmont Ave 55x130, being Lot 13 Blk "B" Map Elmwood Park, Bkly. Grace Everett Barnard to Enoch Tranmal.....June 8, 1916

June 10, 1916—LOT 13 BLK "C" Map Scenic Blvd Knoll, Okd. H S Patton to whom it may concern.....June 9, 1916

June 10, 1916—DUSTERBERRY Ranch, Centerville, bounded on SE by County Road 1948. F T Dusterberry to John Haar.....June 2, 1916

June 12, 1916—LOT 132 and E 20 Lot 131 Blk 35 Amended Map Havenscourt. Okd. J Englander to A R Dexter.....June 12, 1916

June 12, 1916—LOT 62 Nova Piedmont, Piedmont. R V and Emma F Chandler to E W Woodard.....June 8, 1916

June 14, 1916—LOT 34 BLK 17 Map Ivewood Ext., Okd. G W Quin to M H Allen and H C Miller.....June 7, 1916

June 15, 1916—PTN LOT 10 BLK 7 Map Berkeley Heights, Bkly. Chas A McKelvey to Chris Engelsen.....June 5, 1916

June 14, 1916—LOTS 8 TO 24 INCL. and Ptn Lots 4, 5, 6, 7 and 25 to 32 incl. R J McMullen's Sbdvn Blk 576 of City of Oakland. Pacific Coast Shredded Wheat Co to De Luchi Schufelt Co.....May 31, 1916

LIENS FILED

ALAMEDA COUNTY.

June 10, 1916—W THOMAS 180 S Prospect Drive S 40xW 100, Okd. Hall Furnace Co, $67.50; E K Wood Lumber Co, $290.46; Bass-Hueter Paint Co, $69.06; R McDermott, $208.56; Sunset Lumber Co, $77 vs Walter H Packard.....

June 13, 1916—N 15 LOT 28 all Lot 29 Blk "F" Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $35

June 13, 1916—W THOMAS 180 frm S line Prospect Drive S 40xW 100, Okd. F M Cooke, $110; I J and M L Fairbanks(Fairbanks Bros) $106.94 vs Walter H Packard.....

June 13, 1916—N 5 LOT 26, all Lot 27 and S 10 Lot 28 Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $60

June 13, 1916—N 20 LOT 25 and S 20 Lot 26 Blk "F" Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $62.50
June 14, 1916—W THOMAS 180 S Prospect Drive S 40xW 100, Okd. Pacific Mfg Co vs Walter H Packard $247
June 14, 1916—S TWELFTH 75 W Broadway W 25xS 100, Okd. L E Dobon vs Levy Estate Co....$175.54
June 14, 1916—W THOMAS 100 S Prospect Drive S 40xW 100, Okd. James H Cobbledick vs Walter H Packard $45
June 14, 1916—W THOMAS 140 S Prospect Drive S 40xW 100, Okd. James H Cobbledick vs Walter H Packard $26
June 16, 1916—8W FRANCISCO AND Sacramento S 100xW 80, Berkeley. Livermore Fire Brick Co vs E M Reagh, Henry A Lehfeldt and Asa Perkins $37.25

RELEASE OF LIENS.

ALAMEDA COUNTY.

June 5, 1916—LOT 7 AND S 8½ LOT 8 Blk 14 Amended Map Sunset Terrace, Albany. Union Floor Co, $45.75; Eureka Mill & Lumber Co, $158.59 to Jennie A Yori, C Bradford and O G Smith.....

BUILDING CONTRACTS

SANTA CLARA COUNTY.

FRAME RESIDENCE & GARAGE.
KELLOGG AVE AND BRYANT ST., Palo Alto. Excavation, concrete, foundation, brick work, carpenter, sheet metal work, glass, plastering and lathing for two-story and basement frame residence and garage.
Owner..... S. W. Smith, 704 Waverly St., Palo Alto.
Architect ...Frederick H. Meyer, Bankers' Invst. Bldg., S. F.
Contractor..Frank W. Fox.
Filed June 12, '16. Dated June 8, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $9453
Bond, $4726.50. Surety, National Surety Co. Limit, 90 days from date. Forfeit, none. Plans and specifications filed.

ELECTRIC WORK ON ABOVE.
Contractor..Stanford Elec. Works, 161 University Ave., Palo Alto.
Filed June 12, '16. Dated June 8, '16.
Payments same as above.....
TOTAL COST, $266
Bond, none. Limit, 90 days from date. Forfeit, none. Plans and specifications filed.

PLUMBING ON ABOVE.
Contractor..Cashel Bros., 200 Homer Ave., Palo Alto.
Filed June 12, '16. Dated June 8, '16.
Payments same as above.....
TOTAL COST, $1325
Bond, $662.50. Sureties, Jno. Dudfield and E. A. La Pine. Limit, 90 days from date. Forfeit, none. Plans and specifications filed.

PAINTING, TINTING AND DECORATING on above.
Contractor..Palo Alto Paint Co., 217 University, Palo Alto.
Filed June 12, '16. Dated June 8, '16.
Payments same as above.....
TOTAL COST, $955
Bond, $477.50. Sureties, G. G. Bertsche and E. A. Hettinger. Limit, 90 days from date. Forfeit, none. Plans and specifications filed.

CONCRETE DAIRY
SANTA CLARA AND SEVENTEENTH Sts., San Jose. All work for one-story concrete dairy plant.
Owner.....American Dairy Co., 184 N-17th St., San Jose.
Architect ...None.
Contractor..W. R. Latta, 444 N-11th St., San Jose.
Filed June 14, '16. Dated June 14, '16.
Foundation in, brick walls up..$2383
All walls up, roof on..... 2383
Job accepted..... 2383
Usual 35 days..... 2383
TOTAL COST, $9532
Bond, $4766. Sureties, W. M. Stalker and George W. Dobson. Limit, 50 days from date. Forfeit, $10 per day. Plans and specifications filed.

FRAME CLUB HOUSE
COWPER ST. AND HOMER AVE., Palo Alto. All work for one-story frame and plaster club house.
Owner.....Palo Alto Women's Club.
Architect ...Charles E. Hodges and W. Garden Mitchell, 742 Market, San Francisco.
Contractor..W. F. Fox, 825 Cowper St., Palo Alto.
Filed June 8, '16. Dated June 6, '16.
Foundation laid and ceiling joists in .....$ 978
Roofed, frame boarded..... 978
Plastering and finish done..... 978
Job accepted 978
Usual 35 days..... 1308
TOTAL COST, $5220
Bond, $2610. Sureties, H. T. Taylor and H. I. Hull. Limit, 75 days from June 8. Forfeit, $5 per day. Plans and specifications filed.

RESIDENCE AND BARN
LOT 14, LOS ALTOS ORCHARD ACRES. All work for two-story residence and barn.
Owner.....Wm. H. and Dora Melsome.
Architect ...None.
Contractor..Joseph Maccono and Wm. Dewar.
Filed June 8, '16. Dated June 3, '16.
Frame up and sheathing on...$649.35
Roofed and brown mortar on.. 649.40
Job accepted 649.35
Usual 35 days..... 649.40
TOTAL COST, $2597.50
Bond, none. Limit, 75 days after filing. Forfeit, $1. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY.

FRAME SCHOOL
LOTS 1 TO 10 Incl, and Lots 35 to 40 incl, Blk 18 5th Addition to San Bruno Park, San Bruno. All work except plumbing and metal work for one-story 4-class room frame school.
Owner.....San Bruno Park School District, San Bruno.
Architect ...Edwards & Norberg, Bank Bldg., Burlingame.
Contractor..R. C. Stickle, San Bruno.
Filed June 3, '16. Dated June 2, '16.
Frame set $1539.45
Roof on 1539.45
When plastered 1539.45
When completed 1539.45
Last payment..... 2565.75
TOTAL COST, $10,263.00
Bonds, $5131.50 and $2565.75. Sureties, N. Beltramo and Andrew Buerk. Limit, Sept. 2, 1916. Forfeit, none. Plans and specifications filed.

ALL PLUMBING AND METAL WORK on above.
Contractor..W. L. Hickey, South San Francisco.
Filed June 3, '16. Dated June 2, '16.
Plumbing roughed in.....$545.25
Metal work completed..... 545.25
When completed 545.25
Usual 35 days..... 545.25
TOTAL COST, $2181.00
Bond, $1090.50. Sureties, E. P. Kauffman and T. L. Hickey. Limit, Sept. 2, 1916. Forfeit, none. Plans and specifications filed.

BRICK STORE
COR. "A" ST. AND SECOND AVE., San Mateo. All work for one-story and basement brick store building.
Owner.....Parrott Investment Co., 502 California, San Francisco.
Architect ...Morris M. Bruce, Flood Bldg., San Francisco.
Contractor..W. S. Leadly & Thomas T. Wiseman, 319 Minnie St., San Mateo.
Filed June 8, '16. Dated May 22, '16.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, $38,300
Bond, $20,000. Sureties, Joseph Levy and Fernand Levy. Limit, from July 1, 1916 to Nov. 1, 1916. Forfeit, $20 per day. Plans and specifications filed.

FRAME RESIDENCE
ELM ST. AND POPLAR AVE., San Mateo. All work except painting, heating and electric lighting fixtures for two-story and basement frame residence.
Owner.....R. R. Sibley, 3rd and B Sts., San Mateo.
Architect ...Will H. Toepke, 46 Kearny St., San Francisco.
Contractor..Arnold & Morey, 2167 Grove St., San Francisco.
Filed June 9, '16. Dated June 5, '16.
When framed .....$ 871
1st coat plaster on..... 871
When plastered 871
Completed and accepted..... 870
Usual 35 days..... 1162
TOTAL COST, $4645
Bond, $2325. Sureties, Jos. W. Scheld and Joseph Moriatti. Limit, 70 days. Forfeit, $5 per day. Plans and specifications filed.

ADDITIONS AND ALTERATIONS
PTN LOTS 40 AND 41 Map 2 of El Cerrito Park, Hillsborough. All work necessary for additions and alterations to residence.
Owner.....M. M. Brown, 458 Turner Terrace, San Mateo.
Architect ...Will H. Toepke, 46 Kearny St., San Francisco.
Contractor..Leadly & Wiseman, 319 Minnie St., San Mateo.
Filed June 9, '16. Dated May 24, '16.
When framed $803
Finished outside 804
Completed and accepted..... 804
Usual 35 days..... 804
TOTAL COST, $3215
Bond, $1600. Sureties, W. F. Turnbull and F. J. Richex. Limit, 45 days. Forfeit, $5 per day. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY.

RECORDED ACCEPTED

June 10, 1916—LOTS 9 TO 21 INCL. and 30 to 39 incl. Blk 100 of Wall's Addition to Richmond. Richmond School District to J E O'Mara.....June 1, 1916

June 8, 1916—EMERSON near Addison Ave, Palo Alto. Caroline Fichman to whom it may concern.....May 4, 1916

June 8, 1916—S P RIGHT OF WAY and 4th St., San Jose. Ptn Lot 6, Foley Shdvn. C P Bailey & Sons Co to whom it may concern.....June 1, 1916

LIENS FILED.

SANTA CLARA COUNTY.

RECORDED AMOUNT

June 8, 1916—LOT 14 BLK 10 Vestal Shdvn, San Jose. Glenwood Lumber Co vs Sarah Hall Vestal and Joe Luthold $182.53

COMPLETION NOTICES

SAN MATEO COUNTY.

RECORDED ACCEPTED

June 5, 1916—LOT 17 BLK 7, Crocker Estate, Daly City. Arthur and Annie Fonesca to O E Evans & Co.....May 31, 1916

June 12, 1916—LOTS 3, 4, 5, 10, 11 and 12 Blk 10 of the Millbrae Villa Tct, Millbrae. John Joseph Foppiano Jr to John B Woolfrey..June 12, 1916

COMPLETION NOTICES

MARIN COUNTY.

RECORDED ACCEPTED

June 13, 1916—SAN RAFAEL. H H Hearfield to W E Abbott.June 6, 1916

June 13, 1916—SAN ANSELMO. Robt A Carey to Hans H Jepson.....June 12, 1916

June 13, 1916—SAN ANSELMO. I C Nelson to whom it may concern.....June 12, 1916

June 13, 1916—SAN ANSELMO. P D Polidori to A F Hanson.June 10, 1916

June 14, 1916—LARKSPUR. Mrs A Gunn to R Leonhart....June 13, 1916

RELEASE OF LIENS

MARIN COUNTY.

RECORDED AMOUNT

June 14, 1916—MILL VALLEY. Louis Lambreter to C L Mehrten....$206.12

LIENS FILED

MARIN COUNTY.

RECORDED AMOUNT

June 14, 1916—MILL VALLEY. Wm Ross vs William Clack and Dora Kolbe $240

June 14, 1916—MILL VALLEY. Chas Riley vs Wm Clack and Dora Kolbe $105

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

DWELLING

BISSELL AVE. bet. 8th and 9th Sts. Richmond. Dwelling.

Owner.....J. B. Ogborn. 822 Macdonald Ave., Richmond.

Architect ...None.

Contractor..Carl Overaa, 1808 Roosevelt Ave., Richmond.

COST, $1600

CLASS "A" WAREHOUSE

CROCKETT. All work for one to four story Class "A" warehouse.

Owner.....California - Hawaii Sugar Company.

Architect ..Wm. H. Crim Jr., 425 Kearny, San Francisco.

Day's work. COST, $——

NOTE:—Pile foundation awarded to Clinton Construction Co.

CLASS "C" STORES

MARTINEZ. All work for one-story Class "C" stores.

Owner.....Lasell Bros.

Architect ...A. A. Cantin, Foxcroft Bldg., San Francisco.

Contractor..Bulger & Son, Castro and Green, Martinez.

COST, $37,000

COMPLETE SCHOOL

PITTSBURG. Complete 3 class rooms in Pittsburg School.

Owner.....Pittsburg Board of Trustees.

Architect ...Wm. Knowles, Hearst Bldg., San Francisco.

Contractor..D. H. McQuiddy, Pittsburg

COST, $2997

FRAME DWELLING

LOT 7 and Southwesterly 9 feet Lot 6 of Court Ave Tract, on Pine Street, Martinez, Cal. All work for two one-story frame dwellings.

Owner.....Harold F. Blum, 713 Main St., Martinez, Cal.

Architect ...A. W. Smith, 1010 Broadway, Oakland.

Contractor..J. C. Pitcher, Martinez.

Filed June 5, '16. Dated June 1, '16.

Frame work and roofs on both dwellings	$400
Plaster on and windows in	400
Completed and accepted	800
Usual 35 days	800
TOTAL COST,	$2400

Bond, limit, forfeit, none. Plans and specifications filed.

HEATING PLANT

AT COMPANY'S PLANT AT AVON, CAL Complete, furnish and install a hot water heating plans in club house.

Owner.....Associated Oil Co., Avon. California.

Architect ...None.

Contractor..Atlas Heating & Ventilating Co., 4th and Freelon Sts., San Francisco.

Filed June 10, '16. Dated June 2, '16.

Completed and accepted	75%
Usual 35 days	25%
TOTAL COST,	$1980

Bond, $1000. Surety, New Amsterdam Casualty Co. Limit, Rush to completion Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS.

FRESNO COUNTY.

DWELLING

LOTS [illegible] AND [illegible]6 BLK 36, Arlington Heights, Fresno. Dwelling.

Owner ... E. M. Hall.

Architect ...None.

Contractor ..S. P. Williams, 3019 Mckenzie St., Fresno.

COST, $1200

BOARDING HOUSE

LOTS 17 TO 20 BLK "D," Fresno. All work for boarding house.

Owner.....Milo Rowell, 1037 U St., Fresno.

Architect ...None.

Contractor..R. F. Felchlin, Rowell Bldg., Fresno.

COST, $7500

FRAME RESIDENCE

LOTS 13 AND 14 BLK 21 Alta Vista Tract, Fresno. All work for two-story and basement frame residence.

Owner .....Dr. W. T. Barr, 1719 J St., Fresno.

Architect ...Fred E. St. John.

Contractor..J. M. Ackerman, 127 Fresno St., Fresno.

Filed June 9, '16. Dated June 6, '16.

Foundation, etc., completed and 1st floor joists in place	$1000
Frame up and roof on	1000
Enclosed and ready for plaster	1000
Plastering completed	500
Standing finish in place	500
When completed	725
Usual 35 days	1500
TOTAL COST,	$6225

Bond, $3000. Sureties, Geo. Cassels and Chas. C. Schuler. Limit, Sept. 15, 1916. Forfeit, none. Plans and specifications filed.

SWIMMING BATHS

LOTS 11 AND 12 BLK 101, Fresno. All work for swimming baths.

Owner.....A. Trueworthy.

Architect ...None.

Day's work. COST, $6000

DWELLING

LOTS 10 AND 11 BLK 154, Fresno. All work for dwelling.

Owner.....Mrs. E. M. Roth.

Architect ...None.

Day's work. COST, $2750

ALTERATIONS

LOTS 12 AND 13 BLK 73, Fresno. All work for remodeling store front.

Owner.....L. W. Moultrie.

Architect ...None.

Contractor..G. C. Cannon, 120 Glen St., Fresno.

COST $900

LIENS FILED

FRESNO COUNTY.

RECORDED AMOUNT

June 12, 1916—LOTS 28, 29 AND 30 Blk 26, Fowler. Fowler Lumber Co vs Dick Tomasian.....$160

June 9, 1916—Lot 5 BLK 3 Pickwick Add'n, Fresno. Hollenbeck-Bush Planing Mill vs Martin Schelderman $61

COMPLETION NOTICES.

FRESNO COUNTY.

RECORDED ACCEPTED
June 9, 1916—LOT 6 BLK 52 East Fresno. Jasper B Hart to H C Buwalda.....June 9, 1916

BUILDING CONTRACTS

SACRAMENTO COUNTY.

APARTMENTS
NO. 727 H ST., on E 59 feet of S 50 feet Lot 5, G, H, 7th and 8th Sts., Sacramento. Three-story apartment house (6 apartments, 4 rooms each).
Owner.....H. M. Saunders, 722 8th St., Sacramento.
Architect...None.
Contractor..A. W. Norris, 3012 G St., Sacramento.
COST, $8000

REMODEL STORES
NOS. 218-220 K ST. K, L, 2nd and 3rd Sts., Sacramento. Remodel stores.
Owner.....Lindley & Co., Premises.
Architect...None.
Contractor..Geo. S. Hudnut, California Fruit Bldg., Sacramento.
COST, $4000

FRAME DWELLING
ALLEN AVE, Lot 24, Allen Tract, Sacramento. One-story five-room and bath frame dwelling.
Owner.....W. B. Phillips, 409 Cypress Ave., Sacramento.
Architect...None.
Day's work. COST $1750

GARAGE
NO. 1214 O ST., on E ½ Lot 2, O, P, 12th and 13th Sts., Sacramento. One-story private garage.
Owner.....W. H. Devlin, California Fruit Bldg., Sacramento.
Architect...None.
Contractor..G. Ed. Hook, 718 18th St., Sacramento.
COST, $600

GARAGE
NO. 2451 M ST., on E 50 feet Lot 5, L, M, 24th and 25th Sts., Sacramento. Private garage.
Owner.....S. E. Simmons, Premises.
Architect...None.
Contractor..G. A. Wendt, 2130 M St., Sacramento.
COST, $570

GARAGE
NO. 1517 TWENTY-FOURTH ST., on N ½ Lot 8, P, Q, 24th and 25th Sts., Sacramento. Private garage.
Owner.....Elizabeth Winters, Prem.
Architect...None.
Contractor..G. E. Harvie, 2213 I St., Sacramento.
COST, $310

REMODEL STORE
NO. 817 K ST., Sacramento. Remodel store.
Owner.....H. E. Diggles Music Co., 1028 8th St., Sacramento.
Architect...None.
Contractor..Tom Johnston.
COST, $300

ALTERATIONS
NO. 2712 S ST., on E ½ Lot 2, S, T, 27th and 28th Sts., Sacramento. Place dwelling on new concrete foundation.
Owner.....Frank Quelrolo, 1718 25th St., Sacramento.
Architect...None.

ALTERATIONS
NO. 607 J ST., Sacramento. Remodel store.
Owner.....H. T. Silvius et al, 2511 K St., Sacramento.
Architect...None.
Contractor..W. R. Saunders, 2810 1 St., Sacramento.
COST, $800

BRICK GARAGE
NO. 1118 I ST., Sacramento. Brick garage.
Owner.....E. I. Gilbert.
Architect...None.
Day's work. COST, $650

ALTERATIONS
NO. 711 J ST., Sacramento. Remodel Columbia Market.
Owner.....S. W. Waterhouse.
Architect...None.
Day's work. COST, $3950

STABLE
NO. 1115 T ST., Sacramento. Build stable.
Owner.....J. M. Nevis, 1515 21st St., Sacramento.
Architect...None.
Day's work. COST, $550

ADDITION
NO. 3229 M ST., Sacramento. Addition to ice plant.
Owner.....E. R. Clark.
Architect...None.
Day's work. COST, $300

REPAIRS
NO. 1215 SEVENTH ST., Sacramento. Repair fire damage to residence.
Owner.....J. W. S. Butler, Bryte Bldg Sacramento.
Architect...None.
Contractor..L. S. Moore.
COST, $350

ALTERATIONS
NO. 509 I ST., on E ½ Lot 7, H, I, 5th and 6th Sts., Sacramento. Remodel rear entrance to building.
Owner.....Henry Cowell Lime & Cement Co., Premises.
Architect...None.
Day's work. COST, $200

SLEEPING PORCH
NO. 3211 FIFTH AVE, on Lot 35, Oak Grove Tract, Sacramento. Build sleeping porch on residence.
Owner.....Mrs. Jasper.
Architect...None.
Contractor..E. S. Mason, 3214 5th Ave., Sacramento.
COST, $200

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

FRAME FLATS
FIFTEENTH — 97 E Center St., Stockton. All work for two-story frame (4) flats.
Owner.....Mrs. Anna J. Hislop, Stockton.
Architect...Ralph P. Morrell, 12-15 I. O. O. F. Bldg., Stockton.
Contractor..Chris. Totten, 615 N-San Joaquin St., Stockton.
Filed June 12, '16. Dated June 12, '16.
Foundation in, lumber on site.$1500
Rough frame up..... 1355
Roughing in plumbing complete 500
Finished wood work and hardware 500
Usual 35 days..... 1245
TOTAL COST, $5100
Bond, $2550. Surety, A. J. McPhee. Limit, 70 days. Forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN JOAQUIN COUNTY.

BRICK APARTMENTS
SW AURORA & WEBER STS., Stockton. Three-story and basement brick apartments and stores.
Owner.....Thomas F. Walsh.
Architect...Ralph P. Morrell, Odd Fellows' Bldg., Stockton.
Contractor..L. S. Peletz, 428 E-Fremont St., Stockton.
COST, $26,250

BUILDING CONTRACTS

SONOMA COUNTY.

BRICK AND STEEL STORE
SANTA ROSA. All work for one-story brick and steel store building.
Owner.....J. W. Clark, Union Trust Bldg., Santa Rosa.
Architect...None.
Contractor..C. D. Roberts, 720 Benton St., Santa Rosa.
Filed May 22, '16. Dated ———.
Payments not given.....
TOTAL COST, $7500
Bond, $3750. Sureties, A. Trembley and N. E. Marcill. Limit, forfeit, none. Plans and specifications filed. No agreement filed.

POTASH AS A BY-PRODUCT IN MANUFACTURE OF CEMENT.

WASHINGTON, June 10.—That an attempt to abate a serious nuisance, which was menacing the orange groves of California, may result in giving the country an adequate supply of potash for fertilizing purposes and thus free the United States from its absolute dependence upon Germany for this much-needed commodity, is the belief of many chemical experts, and while the United States Government chemists say it is too early to make a sweeping prediction, they too are optimistic and are conducting their investigations along these lines.

In the past the United States has paid tribute to Germany to the extent of $20,000,000 a year for potash, so necessary for enriching the soil, especially in the cotton-growing districts of the South. The European war, however, stopped these importations, and, necessity being the stern mother of invention, the Federal chemists and others accelerated their efforts toward finding a potash supply in this country. The latest discoveries, which promise to free the United States from the dominance of Germany in regard to this valuable product, came about accidentally, as have many other important discoveries. A great cement mill in the orange-growing regions of California was sending tons of dust daily into the air, the winds carrying the dust and depositing it on the orange groves, much to their detriment. When the ownerh protested, the cement mill men began buying in the nearest groves at $1,000 an acre, but finally had to give

this up as being too expensive. Suits were filed and injunctions asked. About this time the attention of the cement mill owners was attracted to an invention of Dr. F. G. Cottrell for the precipitation of dusts from smelters fumes. Dr. Cottrell, who later become the chief metallurgist of the United States Bureau of Mines, worked out this process while a professor at the University of California several years ago. The cement-mill men decided to experiment with the new invention, and the Cottrell process was installed The surprising result was that the new process not only eliminated the dust fumes, but gave the cement people a product that contained a great amount of potash. The results are said to have been so satisfactory that it was thought for a while that the potash might prove to be the main product of some cement mills, with the manufacture of cement only a by-product. This has not exactly come about, but the cement company last year, with potash at war-time prices, sold $100,000 worth, and it is said that the profit was $80,000.

The result of this has been that the cement companies generally are now taking notice. Another company near Hagerstown, Md., which from its location did not have to bother about the dust nuisance, is voluntarily putting in the Cottrell process in order to save potash which it estimates to amount to four tons a day. Some cement-mill men declare that the present mills in this country, properly equipped, capable of turning out 100,000 tons of potash yearly, which is about one-fourth of the amount imported from Germany in normal times. It is further declared that there will be sufficient incentive to establish new mills located near deposits that are rich in potash, and that in the future no cement mill will have a haphazard location. It is event intimated that mills may be erected in certain parts of the country for the purpose of making potash the main product and cement the by-product. The belief is prevalent among those who are interested that, as a by-product in the manufacture of cement, potash can be made at such a price as to make it profitable in normal times at normal prices.

The stopping of the dust nuisance in California by the use of the Cottrell process has suggested another field of endeavor. Now chemists are talking of applying this process for the obtaining of potash from the gases of the blast furnaces in the manufacture of pig iron. Charles Catlett, of Staunton, Va., a widely-known chemist and metallurgical expert, makes the statement that the by-product that can be collected from the blast-furnace gases are sufficient in value to affect profoundly the question of the manufacture of iron in certain sections and from certain materials. He refers to the making of potash from blast-furnace gases as a "contribution to industrial preparedness which may aid in the movement which seeks to produce all necessary things within our own borders." Mr. Catlett gives one instance where by-products valued at $24 might be made along with each ton of iron produced. He says further that the interesting thing about the potash is that it is apt to follow the siliceous impurities, so that those furnaces that are at a disadvantage on account of what is spoken of as low-grade material may, by the utilization of the by-products, produce iron cheaper than other furnaces which are at present blessed with the finest of raw materials.

As the obtaining of potash as a by-product is a metallurgical process, the United States Bureau of Mines is much interested in the question and has been encouraging the development of the process. In commenting upon the recent discoveries, Van. H. Manning, Director of the Bureau of Mines, said: "The Bureau of Mines has, in co-operation with the Geological Survey and the Bureau of Soils, been studying the question of obtaining potash as a by-product in various existing industries, from the standpoint of by-product production from already established industries, the two possibilities which stand out with the greatest probability of being able to really meet the whole or a large part of our national demand for potash are the manufacture of hydraulic cements and iron smelting While the recovery of potash from cement manufacture is in itself so new a development that its wide-reaching significance, not only to agriculture but possibly even to the building trade themselves, is not yet generally appreciated, still it has gone far enough to arouse thoroughly the cement manufacturers of the country to its importance, and the character and local distribution of this industry is such as to insure pretty well a quite general adoption of the potash by-product feature wherever feasible and advantageous. It also seems probable that in the location of new cement mills the matter of the potash content of the raw materials will come to be one of the normal determining factors.

"With regard to potash from the iron-blast furnaces much less progress has yet been made. The bureau's metallurgists believe there are possibilities there quite comparable to those in the cement mills, and have been urging upon those in authority in the industry the importance of not only a careful examination of blast-furnace dusts and gases for potash, but likewise systematic studies on the effect on operating conditions of the same, with the object of obtaining the maximum possible yield of potash. There is, as far as I know, but one company in the United States producing potash from blast-furnace gases in commercial quantities. Even this at present is on a relatively small scale and the company seems to be as yet rather reticient on the subject. The Bureau of Mines has so far refrained from attempting to publish actual estimates of what might be produced in this way, since potash has been so generally ignored in the chemical work of the iron industry and a review of the whole field would be necessary before one could safely draw definite conclusions. Furthermore, the question of just how much of the potash recoverable appears as cyanide and how much as carbonate, sulphate or other compound is an important one to be determined experimentally under varying conditions, as this will have a very direct bearing on its adaptability for agricultural or other uses. The Bureau of Soils has called particular attention to the fact that potash from new sources should not be indiscriminately used as a fertilizer until after careful investigation of its availability for this purpose and freedom from injurious substances.

"The Bureau of Mines has been attempting to follow up this subject and collect the necessary information wherever possible, but the limited funds at its disposal for such work make the process necessarily slower than could be desired. For this reason it is all the more earnestly desired to obtain the cordial co-operation of all those in position to aid in the accumulation of data, and, particularly, in the study of effects of variation of operating conditions on potash elimination. However, the country is making much progress in solving the problems that have been put up to it by the inconvenience of the great war, and it now looks as if we will in the future be able to make for ourselves all of those products for which we have had to depend on foreign countries. I am told that the by-product coke ovens now under construction will be capable of an output of 200,000 tons of coke a month. What this means in by-products is of immense importance to the country industrially."

MORTAR FOR JOINTS EXPOSED TO CURRENTS OF WATER.

In a discussion before the Boston Society of Civil Engineers, John F. Howard said:

In building sea walls of coursed granite masonry laid in mortar and exposed to the action of tidal currents, where the bottom course is not more than 1 foot above mean low water, much difficulty is often encountered in holding the mortar in the joints long enough to give it time to set, as the action of the tides rising and falling on the fresh mortar will pull it out of place. It does not matter how rich a mixture is used, whether 1:1 or neat cement, it is impossible to keep the mortar in place until it hardens.

On one piece of construction under the writer's supervision this difficulty was successfully overcome by mixing plaster of paris with the mortar in the proportion of 1 part of plaster of paris to 3 parts of 1:1 mortar. This mixture hardened within 5 minutes, and no further trouble was experienced from the mortar in the joints failing to set in place. The pointing of the joists in which this mixture had been used was entirely satisfactory.

4,000 TONS OF LIME ROCK TO BE SHIPPED.

COLFAX (Placer Co.), June 16.—A contract has been let to W. C. Cunningham, who lives near Colfax, by the Spreckels Sugar Refinery, for the hauling and shipping of 4,000 tons of lime rock, to be shipped to its factory. Cunningham is to get out as much as the contract calls for and as much more as he can during the Summer months.

HOW UNCLE SAM HELPS BUSINESS.

WASHINGTON, D. C.—"I hope that the present prosperity which we are experiencing in the United States will not blind you to the importance of foreign trade," said Dr. Edward Ewing Pratt, Chief of the Bureau of Foreign and Domestic Commerce, in an address before the Business Men's League of St.

Louis last week. "We in the United States must not get the idea that foreign trade will come to us without our seeking it, nor must we get the idea that we can afford to devote ourselves exclusively to the increasing amount of domestic business and forget entirely foreign trade."

Dr. Pratt's address was concerned principally with the importance of foreign trade and with the assistance his Bureau is in a position to render to any American who is selling or wants to sell goods in foreign countries. To prove the practical nature of the service rendered to exporters by the Bureau numerous examples of actual results were cited, ranging from a $1,500 order for road machinery to orders that run into millions of dollars, including textile machinery for the Chinese Government, flour for Turkey, and hydroplanes for Spain. These orders came to the American exporters as a direct result of the activities of the Bureau and its representatives in foreign countries.

"The Bureau of Foreign and Domestic Commerce," said the speaker, "should be judged by its deeds. It we are not accomplishing definite, practical business results it is time the Bureau were discontinued. If, on the other hand, we are accomplishing definite, concrete business results, it is time the work were enlarged and that even greater efforts were made by the Government to promote our trade in foreign countries. Even in the midst of their very great difficulties, the European nations are taking steps to promote their future trade. They recognize, as we must recognize, that the war will be followed by a period of intense international competition. France and Italy especially are making every effort to prepare themselves for this period of economic conflict. We have already, I believe, made a good beginning, but we should leave no stone unturned in preparing ourselves and in equipping the machinery of our Government to encourage and develop trade.

"The practical service rendered American manufacturers and exporters are not confined to the specific trade opportunities, confidential circulars, and so on, that result in the definite orders for goods. We render a great many special services that result more indirectly in increased business. Recently there came to the United States a group of Chinese merchants and dealers. Our commercial agent met them in San Francisco. We had selected him because of his knowledge of China and because he could talk Chinese. He accompanied the commission on its trip through the United States. He was able to put them in touch with American manufacturers and merchants and a large amount of business was consummated as a direct result. Other merchants coming to this country are met at the dock or are invited to our district offices and are given such information as they desire with reference to conditions and manufacturers in the United States. They are placed in touch with the manufacturers who will sell them the things they want to buy and they are sent to the district offices and to the chambers of commerce in the large manufacturing cities in the United States. Our consuls and our own commercial attaches and special agents when they return to the United States make their headquarters in the district offices and there meet and confer with manufacturers and exporters, giving them the latest information which is obtainable. During six working days last week there came to our New York office 811 persons seeking information. The district office is a comparatively recent addition to our facilities for distributing the information we gather from 300 American consulates, 10 commercial attaches, and our corps of traveling special agents.

At the close of his address, Dr. Pratt called attention once more to the importance of getting all the new and permanent foreign trade possible at this time and urged that the business community make fuller use of the facilities of the Bureau in their search for new markets. "The Bureau is at your service and our motto is 'We aim to serve.' Sometimes it is difficult for us to get permission to serve. Our would-be clients are often reluctant. I hope you will not be reluctant in mak- Bureau, and that you will not be reluctant to show us how we can help you more effectively."

MANY ENROLLING FOR SUMMER CAMP.

SAN FRANCISCO—Enrollments for the United States military training camp for business and professional men at Monterey July 10 are well over the 1100 mark, and at least 1500 are expected to be on the roster by next Saturday. Applications are coming in from all parts of the State at the rate of about 100 a day. Forty employes of the Standard Oil Company and sixteen of the California-Portland Cement Company filed Saturday.

Dr. George H. Richardson of this city, who is an army medical corps officer, started giving physical examinations to applicants yesterday.

STATE CORPORATION DEPARTMENT

Forbes Chemical Company, San Francisco, is permitted by the State Corporation Department to sell and issue 1997 shares to Charles M. Forbes at par, $5 per share, net to the company.

The Pacific Shade Cloth Company Inc., is also permitted to issue 858 shares each to George A. Marwedel and Elsie H. Marwedel and 381 shares to Ada C. Marwedel in exchange for the property and assets of a manufacturing business in Oakland.

Gerard Investment Company is permitted to sell and issue 10,000 shares of its capital stock to Arthur F. and Charles M. Rousseau, at par, $5 per share, net to the company.

BUILDING PERMITS LAST YEAR.

A report compiled by Chief Building Inspector John P. Horgan of the Board of Public Works shows the number of buildings erected and altered during the year of 1915. The total amount of building permits granted last year was 6,461, these representing an expenditure of approximately $13,990,704.

During that period, the report shows 15 permits were issued for Class "A" buildings, costing $1,078,628; 2 for Class "B" at $224,000; 174 for Class "C" at $3,041,374 and 1,850 for frame structures costing $6,075,675. Alteration permits to the value of $1,638,204 were also issued, there being 4,397 permits granted. The report also includes 9 public buildings, representing an investment of approximately $492,009; 12 harbor structures at $879,814, and one Exposition building costing $8,000.

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9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa. Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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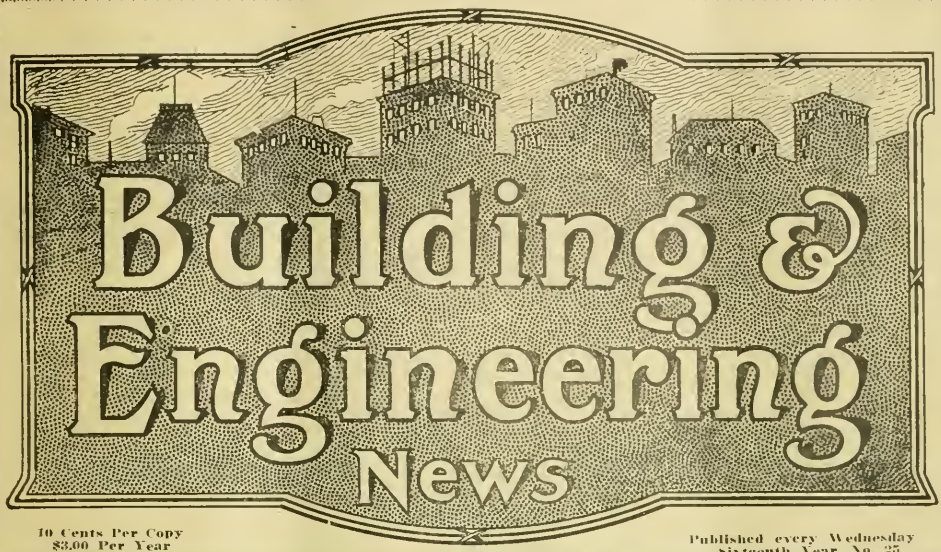

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MAY BUILDING TOTALS.

The best monthly statement of build-operations throughout the country since last January is that for May, which has just been compiled. The official reports of building operations in 115 principal cities of the United States, as compiled by the American Contractor, Chicago, the California Development Board and the Daily Pacific Builder, total $114,692,515 as compared with $87,179,956 for May, 1915.

This showing is especially gratifying in view of certain conditions which have tended to retard construction work recently. The extreme difficulty in procuring early deliveries of structural steel on account of the tremendous activity of the metal markets has resulted in postponing work on skyscrapers and other types of buildings, requiring considerable amounts of metal, delays which have no doubt been intensified to some degree by the sharp advance in the price of the industrial metals.

But in spite of that handicap, present activities, as indicated by the May reports, are far ahead of the construction work in progress a year ago. It will be noted also from the table below that the larger cities, those in which the erection of steel construction buildings is relatively the greater, show gains instead of losses. New York, Chicago, Philadelphia and many of the other metropolitan topliners are listed with decisive gains to their credit. Of the 115 cities included in the list, 82 show gains and only 33 comparative losses.

Construction work in San Francisco and the Bay Cities, in addition to the shortage of steel and the prevailing high prices, has been further retarded by threatened labor troubles.

City.	May, 1916. Cost.	May, 1915. Cost.
Akron .....$	921,527	$ 348,538
Alameda	69,120	36,975
Albany	824,445	406,580
Allentown	452,640	189,600
Altoona	111,740	74,712
Atlanta	385,585	337,934
Bakersfield	55,209	5,500
Baltimore	356,077	612,557
Bayonne	232,955	219,288
Berkeley	154,100	331,650
Binghamton	134,235	95,455
Birmingham	120,998	192,735
Boston	5,969,000	8,158,000
Brockton	137,271	169,911
Bridgeport	562,468	1,119,354
Buffalo	1,155,000	1,222,000
Canton	396,850	216,575
Cedar Rapids....	170,000	181,000
Chattanooga	148,256	44,295
Chicago	13,707,100	7,902,900
Cincinnati	1,043,345	1,102,425
Cleveland	2,688,080	5,151,909
Colorado Springs	37,269	22,865
Columbus	1,030,650	911,785
Dallas	337,488	278,335
Davenport	86,418	63,000
Dayton	473,221	313,652
Denver	443,400	434,270
Des Moines.....	221,030	280,880
Detroit	5,150,845	2,296,990
Duluth	7,272,845	294,148
East Orange....	137,486	82,353
East St. Louis...	97,155	45,183
Elizabeth	203,658	99,264
Erie	214,800	179,760
Fort Wayne.....	698,225	157,875
Fort Worth.....	146,132	57,050
Fresno	86,241	169,425
Gr. Rapids, Mich	253,970	379,996
Harrisburg	142,845	326,051
Hartford	1,118,240	691,600
Haverhill	151,100	79,800
Hoboken	24,640	70,980
Holyoke	264,100	55,575
Indianapolis	860,030	593,938
Jacksonville	213,307	282,794
Kansas City,Kan	57,866	64,575
Kansas City, Mo.	1,214,900	886,215
Lawrence	69,250	87,465
Lincoln	278,310	288,185
Long Beach.....	51,022	112,446
Los Angeles.....	1,379,691	1,168,983
Louisville	333,250	328,090
Manchester	166,623	135,747
Memphis	279,535	228,490
Milwaukee	1,017,718	1,186,642
Minneapolis	3,055,800	1,755,860
Montgomery ...	49,740	59,472
New Bedford....	1,209,900	271,300
New Haven.....	489,320	318,740
New Orleans....	420,190	297,681
New York City..	28,902,486	25,006,076
Manhattan ...	18,346,772	14,378,327
Bronx	2,349,070	4,730,333
Brooklyn	5,140,611	3,650,156
Queens	2,766,358	2,059,460
Richmond	299,675	187,800
Newark, N. J....	843,958	981,745
Niagara Falls...	108,952	79,690
Norfolk	118,225	155,578
Oakland	414,407	350,035
Oklahoma City..	172,140	41,935
Omaha	961,240	889,385
Pasadena	154,851	115,372
Passaic	234,525	85,175
Paterson	282,009	123,582
Peoria	186,050	231,280
Philadelphia ...	4,791,255	2,868,840
Pittsburgh	1,120,675	937,449
Portland, Ore....	478,885	432,065
Pueblo	33,624	32,310
Quincy	217,116	178,590
Reading	206,675	28,775
Richmond, Cal...	50,356	13,535
Richmond	471,471	396,300
Rochester	982,216	1,001,455
Sacramento	160,527	99,514
Saginaw	49,435	52,753
Salt Lake City..	396,754	279,791
San Antonio.....	164,318	137,810
San Diego.....	310,302	80,737
San Francisco...	1,897,470	1,212,413
San Jose.....	30,309	53,434
Santa Rosa.....	47,382	8,134
Savannah	111,165	115,580
Schenectady	129,266	114,825
Scranton	148,827	143,133
Seattle	504,365	353,820
Sioux City.....	173,460	312,950
South Bend.....	187,260	93,590
Spokane	139,305	130,471
Springfield, Ill...	207,760	86,323
Springfield, Mass	1,158,215	932,818
St. Joseph.....	63,945	155,840

St. Louis	988,540	937,676
St. Paul	1,360,322	1,309,656
Stockton	81,220	149,185
Superior	54,749	144,865
Tacoma	88,815	49,998
Tampa	282,505	182,750
Terra Haute	157,509	53,120
Toledo	1,275,117	558,155
Topeka	223,815	42,935
Troy	81,064	35,002
Washington, D.C.	1,204,363	992,607
Wichita	307,625	36,150
Wilkes-Barre	173,741	149,644
Wilmington	433,936	151,807
Worcester	871,102	356,860
Youngstown	559,200	244,055
Total	$114,692,515	$87,179,956

CONSTRUCTION WORK ABROAD.

CANADA.

Government Construction Work at Victoria.

VICTORIA, B. C.—The contract for the construction of the buoy and storage building on the Songhee Reserve for the Dominion Government has just been let to the Victoria contracting firm of Parfitt Bros. It is understood that the successful tenderers will start work at once. The contract embraces the construction of buoy, store and freight sheds, together with trackage and drainage on the Marine Wharf site. The specifications call for a connected freight shed 147 feet by 30 feet to be erected on the existing wharf; a commodious store shed, 108 feet by 36 feet, at the rear of the freight building; a buoy shed measuring 80 by 40 feet, to which will be attached a shed 80 by 20 feet, for the use of carpenters, gas-buoy men, and machine shops.

Government Piers.

Messrs. Grant, Smith & McDonnell (Ltd.) have the contract for the construction of two piers for the Dominion Government at Ogden Point, Victoria. The specifications call for 64 cribs, 26 of which have been sunk to date. The cribs are sunk at the average rate of five per month. The concrete used in the construction of cribs during the past month amounted to 6,300 cubic yards, while the amount of steel used in the same period was 400 tons. To date, 31,000 cubic yards of concrete and 2,200 tons of steel have been used in the construction of cribs. The amount of top dressing used on the cribs to date is 3,400 cubic yards.

The cribs already in have been filled to within 30 per cent of their capacity. The amount of fill used to date is 17,500 cubic yards, 500 cubic yards being used in April. As regards back fill, there has been placed to date 84,700 cubic yards, while 1,200 cubic yards were used last month.

The total amount of rubble dumped on the site of the piers is estimated at 372,000 tons.

Government Breakwater Nearing Completion.

The contracting firm for the breakwater at Ogden Point, Victoria announces that it is concentrating work on the extreme arm of the sea wall, and at the present rate of progress the contract will be completed by the latter part of the year.

The following work was done on the breakwater during April: Rubble deposited, 24,300 tons; granite blocks placed, 9,000 tons; concrete poured, 2,300 cubic yards, comprising seven blicks of concrete wall. The work completed to date is as follows: Rubble, including core, 1,107,000 tons; granite blocks, 118,000 tons; and concrete, 26,000 cubic yards. The cost of the breakwater when completed will be over $2,100,000.

NEW ZEALAND.

New Wool Warehouse.

Messrs. G. W. Binney & Sons are erecting a brick wool warehouse 100 by 175 feet, with tile roof, to cost $60,000. The contractors are Messrs. McCallum & Bull. The warehouse is to be furnished with elevators and other up-to-date devices for handling wool.

Additions to Canterbury College.

The Board of Governors of Canterbury College at Christchurch has decided to expend $87,597 on new buildings during 1916-17. The plans and specifications are now being prepared. The new buildings will conform to the Gothic style of architecture of the present buildings, and will be in gray stone with slate roof. Canterbury College is the leading educational institution in the south island.

Port Improvements at Onehunga—Improvements in Auckland.

Extensive harbor improvements are contemplated at Onehunga, New Zealand, at an estimated cost of $326,055. They will include a 1,300-foot wharf with adequate shipping facilities. This port is about 7 miles south of Auckland and is connected directly with the Pacific west coast. It is destined to become a port of considerable importance. It now has a population of about 8,000.

The Epsom drainage system is about completed, at a total cost of $291,990, and $145,995 is being expended on the Remuera drainage system. Auckland will expend about $194,660 on its streets and parks during 1916. During the past two years $583,999 have been spent on widening, straightening, and grading one important street leading to the business center, and $40,000 or $50,000 more will be required to complete the work.

Construction of New City Markets.

The final contract has been let for the construction of two of a group of three market buildings, at a cost of $224,978. These buildings, which will be completed within 18 months, are to be up-to-date in every particular. They are to be of reinforced concrete construction covered with asbestos shingles, a combination that is considered fireproof. These buildings are to be leased to the public for market purposes only, and it is expected they will bring in a good revenue for the city. Fletcher Bros. (Ltd.), Dunedin, New Zealand, are the contractors.

RECORD OF CASES DECIDED BY THE INDUSTRIAL ACCIDENT COMMISSION OF THE STATE OF CALIFORNIA.

Since the Workmen's Compensation, Insurance and Safety Act became effective on January 1, 1914, up to and including the 31st day of May, 1916, the Industrial Accident Commission has decided 2240 cases (exclusive of thousands of controversies adjusted without the necessity of formal hearings). Of this total number of cases there have been appealed to the Supreme Court and the District Courts of Appeal, 88 cases, leaving 2152 decisions of the Commission from which no appeals were taken, but which decisions were accepted by the parties as final and conclusive as to the law and facts.

Of the 88 cases appealed, writs of review were denied in 26 cases and the decision of the Commission was affirmed in 6 cases, making a total of 32 cases in which the decisions of the Commission were sustained by the Appellate Courts. Of the 88 cases appealed the decisions of the Commission were reversed in 13 cases. Four of these 13 cases involved but two issues, so that the Commission was actually reversed in only 11 instances as to issues presented upon appeal. This means that the decisions of the Commission had been sustained in practically two-thirds of the appealed cases and that the Commission had been reversed in less than ½ of 1% of the cases decided by it.

Many of the cases appealed involve identically the same questions. In the 39 cases now pending before the Appellate Courts, 7 are on the single question of conflict in judisdiction between the Industrial Accident Commission and the Admiralty Courts; 2 are upon the question of the conflict in jurisdiction between the Commission and the U. S. District Courts with reference to personal injuries or death suffered by employees of railroads engaged in interstate commerce, while a number of the cases pending were taken up to the Appellate Courts upon constitutional questions which have been decided since the appeals were taken. Four cases upon which appeals had been taken have been compromised by the parties and dismissed before decision by the court.

Every new law of importance must run the gauntlet of judicial interpretation, and it was the expectation of the Industrial Accident Commission that the two years following the adoption of the Compensation Act would see a large number of test cases taken to the Appellate Courts upon constitutional questions, jurisdictional questions, conflict of laws and procedural questions. The largest class of appeals taken has been for the purpose of having judicially determined issues of great difficulty; such as cases involving constitutional questions, conflicts of jurisdiction between State and Federal authorities and between Admiralty Courts and the Commission, in which questions many States having compensation laws are interested equally with California. As indicated, a number of the cases not yet decided upon appeal are cases of this character. The cases of maritime jurisdiction are being retained by the Supreme Court of California under a formal order made by the court pending decision of the issue involved by the Supreme Court of the United States, in which like issues are now pending.

A summary of the foregoing shows that the Industrial Accident Commission has had less than 4% of its decisions appealed, that it has been affirmed in two-thirds of the cases appealed and that of all decisions rendered by it there have been reversals in less than ½ of 1% of the number of decided cases

BOARD OF FIRE UNDERWRITERS MAKE STATEMENT RELATIVE TO BUTTONLATH.

Senator Scott Prints Letter Received From Local Board of Fire Underwriters in Which it is Stated That The Five Per Cent Credit Now Allowed Metal Lath Will Not be Given Buttonlath Until Underwriters' Fire Test Is Made.

E F MONHRADT SECRETARY
C T MANWARING ASST SECRETARY

TELEPHONE BUTTER 5907

BOARD OF FIRE UNDERWRITERS OF THE PACIFIC
814 MERCHANTS EXCHANGE BUILDING
SAN FRANCISCO, CAL

May 27, 1916.

Mr. William S. Scott,
185 Stevenson Street,
San Francisco, California.

Dear Sir:

In answer to your inquiry of May 26th I beg leave to advise that we do not consider button lath as the equivalent of metal lath, nor do we accept it as standard material for fireproof construction, and, whenever used in such construction, it would incur a rating penalty. We consider it inferior to metal lath, but superior to wood lath.

Until such time as the material is submitted for test to the Underwriters' Laboratories, and then only in case the test is satisfactory, we will not give the usual five percent credit now allowed for metal lath in class C buildings.

As the exposure rate of any given building is measured by the final rate obtained, any feature of construction or occupancy which increases the final rate must affect the rate of the adjoining property it exposures.

This office recently made inquiries of Eastern rating organizations in order to assist us in determining its relative fire resistant properties in comparison with metal lath, and while the information thus obtained is not conclusive, the general concensus of opinion is that it is not as good as metal lath, but better than wood lath.

It might be that when this material is submitted to our Laboratories that the results of their tests will cause us to change our views. You readily appreciate that we welcome the use of the best materials and if this test is satisfactory it would warrant us in classifying this with metal lath. It would be to our interest and the interest of the public that we do so.

Hoping this is the information asked for, I remain,

Yours truly,

Jas W Vaughan
District Secretary.

San Francisco, Cal., June 19, 1916.

Through your valuable columns I take this opportunity of advising the people of San Francisco that there seems no likelihood of the Board of Supervisors requesting that buttonlath be submitted to the National Board of Fire Underwriters for a suitable fire test.

The Builders' Exchange, General Contractors' Association, State Immigration and Housing Commission, Civic Leagues of Improvement Clubs, Point Lobos Improvement Club, Park-Richmond Improvement Club, Masons' & Builders' Association, Master Plasterers' Association, Journeymen Plasterers' Union, Journeymen Bricklayers Union and many unattached citizens have earnestly requested the Mayor and the Board of Supervisors to insist that a Fire Underwriters' test of buttonlath be made before it is allowed to be used in our private buildings and in our public school buildings, in the interest of public welfare and safety.

Committees appeared before the Mayor and the Board of Supervisors with competent proof that buttonlath is defective structurally and they maintained that it was not a fire resistant and photographs were published in all the daily and weekly papers of a fire test of buttonlath which was made strictly in accordance with the specifications prescribed by the American Society for Testing Materials, which showed that buttonlath was a total failure as a fire-resistant.

Regardless of my personal regard for the advocates of buttonlath I can not sit silently by and see San Francisco imposed upon with a material that will seriously endanger the lives of our people and that will raise the insurance rates upon every building in which it is used as well as upon every adjacent building, without entering a mild protest.

The people of Los Angeles are paying dearly in increased insurance rates as the result of the use of buttonlath and the above letter shows that San Francisco will suffer the same fate unless it is shown that buttonlath is a far better fire-resistant than it is now considered to be.

The immense fire waste suffered each year in the United States should be a lesson to our public officials and our citizens to shun combustible materials as they would a plague.

Respectfully yours,
SENATOR WILLIAM S. SCOTT.

Local Builders Are Organizing Company.

Three Battalions of Four Companies Each Planned by Senator William S. Scott For Active Service.

A permanent military organization, recruited from the ranks of the building interests of this city and including contractors, material men, architects, draughtsmen, and in fact all who engage in construction, is now being carried on under the personal direction of Senator William S. Scott, assisted by Supervisors Edward J. Brandon, Ralph McLeran and James S. Fennell, Clarence F. Pratt and Capt. William Fulford.

The first appearance of the organization will be made in the great Preparedness Parade which will be held on July 22 and it is the intention of the leaders to have the building industry in San Francisco represented by not less than four thousand in the great parade. Confidence in this large number is assured when the wonderful showing made in the parade during America's Builders' Week is remembered.

Enrollments in this big marching unit began to come in so fast yesterday after Scott had sent out his call that it was necessary to establish an enrollment bureau, with Stewart S. Rice as recruiting officer. Headquarters have been established for this division at the Builders' Exchange, 185 Stevenson street.

"We intend to make this military organization a permanent proposition to be used primarily in the great Preparedness Parade and to be held intact in case the country is called upon for volunteers,' said Scott yesterday.

The permanent organization will consist of three battalions of four companies each besides a band. Senator William S. Scott will act as Colonel with Clarence F. Pratt as adjutant with the rank of captain.

BETTER LIGHTING AT MERCED.

MERCED, Cal.—A movement has been started at Merced to install electroliers in the business district of the city in order to improve the lighting effect. It is probable that some extensive street paving will also be done in the near future.

MAY MAGNESITE SHIPMENTS.

PORTERVILLE—According to figures, 127 cars of magnesite were shipped from Porterville during the month of May of a total approximate value to the mine operators of $65,000. This is 12 cars more than the production for April which to that time was a record.

ADVANCE CONSTRUCTION NEWS.

Classified According to Character of Work.

APARTMENT HOUSES

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architect, J. C. Hladik, Monadnock Bldg., S. F. Owner, Mrs. Anna Hladik. Location, east Fillmore south of Broadway. Will cover an area of 37½ by 56½ feet. Will contain six apartments of three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning furnace and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor under the direction of Otto Carson.

SAN FRANCISCO—Apartment house, 5 story and base. Class C construction, $60,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, O'Brien Bros. Location, south Bush west of Powell, covering an area of 45½ by 137½ feet. Will contain a number of two and three room suites and also some single rooms with baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, hot water supply and automatic elevator. Bath rooms finished in tile and equipped with showers. Wall beds and vacuum cleaning. Marble and tile wainscot in the lobby. Ornamental plaster. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated contracts to be let at once.

SAN FRANCISCO—Apartment house, 3 story and base, frame, $15,000. Architent, none. Owner, R. O'Connor, represented by J. C. Bateman, Balboa Bldg., S. F. Location, northwest 24th and Castro. Will contain four stores on the ground floor and eight modern apartments on the upper floors. Interior finish pine and white enamel with some hardwood floors. Steam heat and oil burning equipment. Patent store fronts and marble bases. Wall beds. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

SAN FRANCISCO—Apartment house, 6 to 10 story and base. Class A construction, $200,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location not given. Will cover an area of 100 by 150 feet. Only preliminary plans have been prepared and the exact location and names of the interested parties cannot be given at this time. Further mention will be made of the work as the plans progress.

OAKLAND, CAL.—Apartment house, 3 story and base, frame, $15,000. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner's name withheld. Location, Lake District. Will contain six high class apartments of four rooms each. Interior finish hardwood and white enamel throughout. Hardwood and tile floors. Steam heat and hot water system. Oil burning furnace. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster. Plans are nearly complete and figures will be called for shortly.

BERKELEY, ALAMEDA CO., CAL.—Apartment house, 3 story and base, frame, $15,000. Architects, Newsom & Newsom, 1748 Broadway, Oakland. Owner's name withheld. Location, Hayes street near College avenue. Will contain twelve modern suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment and hot water supply. Vacuum cleaning and wall beds. Bath rooms tile. Marble and tile wainscot in entrance lobby. Exterior covered with cement plaster. Plans being prepared.

BONDS

DANVILLE, CONTRA COSTA CO., CAL.—Bonds of $15,000 have been voted by the San Ramon High School District. The issue provides for the erection of a high school building.

FRESNO, FRESNO CO., CAL.—Engineers are now at work determining the costs on the proposed irrigation and reclamation district planned by land owners of the Tulare Lake Basin. It is planned to irrigate 266,000 acres.

A preliminary survey recently completed placed the cost of the reservoir, embankments of the rivers, and the concrete riprapping of the levees at about $3,000,000, and the dredging of a drainage canal through the sloughs at about the same.

PETALUMA, SONOMA CO., CAL.—At the last meeting of the City Council a resolution of intention was presented by Councilman Young, providing for calling a special election to vote $40,000 bonds for building the proposed concrete culvert along Thompson Creek.

MARTINEZ, CONTRA COSTA CO., CAL.—The Trustees of the Martinez School District have called a special election for Saturday, July 15th, for the purpose of voting on the proposed issue of $51,000 in bonds for the erection of a new ten-room school building.

EUREKA, HUMBOLDT CO., CAL.—The County Supervisors have adopted the report of the County Highway Commission and have set August 29th as the date to vote bonds of $1,500,000 for good roads.

NOVATO, MARIN CO., CAL.—The Trustees are planning a $15,000 bond issue to erect a new school. It is planned to have a building of four class rooms, library, cloak rooms, lavatories and a separate heating plant.

CLOVERDALE, SONOMA CO., CAL.—Petitions will be distributed shortly asking that a bond issue of $20,000 be called to decide the question of issuing and selling bonds with which to erect a new school building.

SANTA MONICA, LOS ANGELES CO., CAL.—The Santa Monica City Commissioners unanimously voted to instruct the City Attorney to draft an ordinance calling an election to submit to the voters a proposition of a bond issue of $350,000 to construct or acquire a municipal gas plant.

LIVE OAK, SUTTER CO., CAL.—The Live Oak Chamber of Commerce has started a movement to secure a county bridge across the Feather River east of here.

Supervisor Graves has been asked to meet with the Chamber of Commerce to discuss the matter and arrange for submitting the question of a bond issue to a vote of the people. It is estimated a bridge would cost $30,000.

CHICO, BUTE CO., CAL.—The Chico High School District defeated the $60,000 bond issue with which to erect a new school building. According to members of the Board of Education the issue was turned down because the sum of $60,000 was not sufficient to finance the work planned by the Board of Education. It is understood that the Board will call an election for bonds of $100,000.

SUNNYVALE, SANTA CLARA CO., CAL.—The Board of Town Trustees has passed an ordinance calling for a special election to vote bonds of $10,000 to provide for the erection of a new school.

TULARE, TULARE CO., CAL.—Petitions are being circulated in Kings County for the formation of the Tulare Lake Water District, embracing more than 60,000 acres and involving the expenditure of approximately $6,000,000 covering engineering work of a permanent nature. Twenty thousand acres of the district are to be used as a proposed reservoir site, for the storage of waters that flow into the lake from the Kings, Kern, Tule and Kaweath Rivers and Cross Creek. It is proposed to keep the reservoir 20 feet above the lake bed, so the water may be used for irrigation purposes. Excess water will be carried off by a spillway.

WATSONVILLE, SANTA CRUZ CO., CAL.—Sealed bids will be received by the County Supervisors up to July 3rd for the purchase of $100,000 of high school bonds. Bids will also be considered for the purchase of the $25,000 grammar school bond issue.

MARTINEZ, CONTRA COSTA CO., CAL.—The City Trustees are considering a bond election to raise funds for the proposed sewer, water and street improvements. Provision will also be made for funds with which to purchase a chemical auto fire engine.

LOS ANGELES, CAL.—The $3,500,000 bond issue of the Imperial Irrigation District has been declared valid. The proceeds of the sale of the entire issue will finance the construction of a vast irrigation system.

SAN ANDREAS, CALAVERAS CO., CAL.—A campaign is being made to call an election to vote bonds for the construction of a good roads system throughout the county.

SACRAMENTO, CAL. — The County Highway Commission has filed a report with the Board of Supervisors recommending a bond issue of $1,750,000 for highways and bridges. It is probable that the election date will be set for the latter part of August.

BRIDGES, DAMS AND HARBOR WORK

SAN ANDREAS, CALAVERAS CO., CAL.—Bridge, steel and concrete. Cost as follows. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. The following bids were received by the Board of Supervisors at their last meeting for the construction of the bridge over the Middle Fork of the Mokelumne River near the Town of West Point. Jenkins & Wells, 3536 Y street, Sacramento—For wrecking old bridge, $65. To construct the bridge complete, without approach fill, $5,133. Extra reinforced concrete in place, $30 per cubic yard. Extra excavation in rock, $6 per cubic yard. Extra excavation other than rock, $2 per cubic yard. Placing of earth fill in the approaches, 75c per cubic yard. If necessary to decrease the amount of concrete as shown in plans and specifications deduct $21 per cubic yard.

Gildersleeve Contracting Co.—Building bridge according to plans and specifications, $5,675, not including fill. Extra concrete below water, $25 per cubic yard. Extra concrete above water, $19 per cubic yard. Extra excavation of dirt above water, $1 per cubic yard. Extra excavation of dirt below water, $4 per cubic yard. Extra excavation of rock below water, $6 per cubic yard. Extra excavation of rock above water $4 per cubic yard. Extra steel placed, 5c per pound. Should it be necessary to deduct concrete, deduct $16 per cubic yard.

NAPA, NAPA CO., CAL.—Bridge, masonry and reinforced concrete. Cost not stated. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on July 25th at 10 a. m. for the construction of a masonry and reinforced concrete highway bridge across Conn Creek, at a point near the Wm. Dinning place.

PETALUMA, SONOMA CO., CAL.—Concrete runway, $40,000. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council, City Engineer A. A. Horwege presented plans and estimates for an open concrete runway, 14 feet wide at bottom, 16 feet on top and 7 feet deep for the elimination of Thompson Creek.

VENTURA, VENTURA CO., CAL.—Bridges, reinforced concrete and steel. Cost not stated. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on July July 7th for the erection of the La Crosse bridge across the San Antonio Creek, about one-half mile north of La Crosse siding; and for the Casitas bridge, about one-half mile north of Canet siding, Ventura County. The work consists of the following: La Crosse bridge—Erection of one combination steel and timber span, 150 feet long, and 96 feet of timber floor on concrete pile bents. Casitas bridge—Erection of one combination steel and timber span 200 feet long. All structural steel, cast iron, bolts and washers will be furnished by Ventura County. All substructure work is being done under separate contract. Plans and specifications on file in the office of the Clerk of the Board of Supervisors and in the County Surveyor's office.

OROVILLE, BUTTE CO., CAL.—Bridge, steel and concrete. Cost not stated. Engineer, County Surveyor, Oroville. Owners, Butte County. Blds will be opened on July 13th at 2 p. m. for the construction of a bridge across Lindo Channel on Nord avenue, one mile from Chico.

ALAMEDA, ALAMEDA CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Alameda. Owners, City of Alameda. Contractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract covers the paving of 6th street from Lincoln to Pacific avenue. Contract price not stated.

Contracts Awarded.

SAN JOSE, SANTA CLARA CO., CAL.—Bridge, concrete. Cost as follows. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. McKeen road, reinforced concrete culvert. Wm. Martin awarded contract for $1,820. Foothill avenue at Echo ranch, a reinforced concrete culvert. A. Peart awarded contract for $740. Columbet avenue, a reinforced concrete bridge. Wilson & Christianson, San Francisco, awarded contract for $2,109. Foothill avenue north of Echo ranch, a reinforced concrete culvert. A. Peart awarded contract for $450.

NAPA, NAPA CO., CAL.—Bridges, stone and concrete. Cost as follows. Engineer, County Surveyor, Napa. Owners, Napa County. The contract for the construction of three concrete and stone bridges, two to be constructed in Capell Valley and one to be built at Coomsville, were awarded Tuesday to C. H. Gildersleeve of Napa. The two to be built in Capell Valley will cost $1,894 and the bridge at Coomsville will cost $530.

COURT HOUSES

OAKLAND, CAL.—Hall of Records addition, 1 and 2 story, brick and steel. Cost not stated. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners, Alameda County. Location, Fifth and Broadway. Work will consist of an additional wing of the same construction and architecture as the present building. Plans are complete and figures being taken. Bids will be opened on August 7th at 10 a. m. The work will be segregated as follows: Department No. 1—Excavating, brick work, stone work, concrete work, carpenter work, mill work, glass, stairs, steel fire doors, window guards, plastering, lathing, cementing, damp-proofing, felt and gravel roofing, sheet metal, skylights, hardware, painting and tinting. Department No. 2—Plumbing, drains and gas fitting. Department No. 3—Electric work. Department No. 4—Marble work and tiling. Department No. 5—Heating. Department No. 6—Elevator work. Department No. 7—Well boring and casing. Plans can be secured from the County Clerk only.

Contracts Awarded.

NAPA, NAPA CO., CAL.—Hall of Records, 2 story and base, reinforced concrete, $23,240. Architect, W. H. Corlett, Napa. Owners, Napa County. Contractor, E. W. Doughty. Contract price, $23,240.

FACTORIES AND WAREHOUSES

SAN FRANCISCO—Rice mill, 2 and 4 story, mill construction, $50,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, Growers' Rice Milling Corporation. Location, Third and Islais Creek. Will cover a ground area of 50 by 200 feet. Mill portion four stories and warehouse two stories. Office finished in pine. Metal window sash and frames and fireproof doors. Cement and pine floors. Special machinery not included in contract. Exterior faced with corrugated iron. Plans complete and figures being taken.

ALAMEDA, ALAMEDA CO., CAL.—Ship building plant, 1 and 2 story, steel and concrete. Cost not stated. Engineer, L. S. Rosener, Merchants Exchange Bldg., S. F. Owners, Union Iron Works. Bids are now being taken for the construction of the first building, a plate shop, which will cover an area of 500 by 100 feet. This will have a complete steel frame and concrete floors and walls. A large brick and steel power plant will next be built and following this two frame and steel buildings of large dimensions. Further mention will be made of the work.

SAUSALITO, MARIN CO., CAL.—Gas plant, 1 and 2 story, reinforced concrete and frame, $35,000. Engineer, J. A. Fish, Mutual Bank Bldg., S. F. Owners, Town of Sausalito. Preliminary plans are being prepared for the construction of a modern gas plant, which will be controlled by the municipal authorities. Further mention will be made of the work when contracts are signed.

MODESTO, STANISLAUS CO., CAL.—Brick factory, 1 story, frame. Cost not stated. Architect, none. Owners, Union Brick and Tile Co. The main building will cover an area of 100 by 100 feet. Special machinery will be installed. W. M. Anderson is the promotor, and directors of the corporation are D. W. Morris, N. E. Leek, W. A. Downer, S. J. West and W. M. Anderson.

Contracts Awarded.

SAN FRANCISCO — Warehouse, 3 story and base, brick and steel, $30,000. Architect, none. Owners, Enright Estate, leased to Rosenberg Co. Contractor, F. H. Barnes, 1381 Stevenson street, S. F. Note: Contractor letting sub-contracts.

SAN FRANCISCO—Factory plumbing, $2,500. Architect, August G. Headman, Call Bldg., S. F. Owners, J. Allec Cleaning and Dyeing Works. Contractor, Jerry Looney, 85 City Hall avenue, S. F., plumbing only, $2,500.

VERNON, LOS ANGELES CO., CAL.—Warehouse, 1 and 2 story and base, Class A construction, $23,000. Architect, Henry E. Bean, Central Bldg., L. A. Owners, California Food Products Co. Contractors, Leonardt & Peck, H. W. Hellman Bldg., L. A. Contract price, $23,000.

FIRE HOUSES AND JAILS

REDWOOD CITY, SAN MATEO CO., CAL.—Jail equipment. Cost not stated. Architect, Will H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Bids will be received on July 10th at 10 a. m. for the special jail equipment to be installed in the new County Jail. All bids received at the last meeting of the Board of Su-

pervisors for this work have been rejected. These figures ran in excess of $22,000. Plans can be secured from the architect.

Contracts Awarded.

SAN FRANCISCO—Engine house, 2 story and base, brick and steel, $24,750. Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Contractor, John Spargo, 240 Montgomery street, S. F., general construction only. Contract price, $24,750.

SAN FRANCISCO — Fire protection system, $1,981.75. Engineer, Construction Quartermaster, Fort Mason. Owners, United States Government. Contractor, Michael Murphy, 1321 Milvia street, Berkeley. Contract price, $1,981.75.

SAN FRANCISCO — Extra grading, $2,200. Engineer, Construction Quartermaster, Fort Mason. Owners, United States Government. Contractors, Mahoney Bros., Hobart Bldg., S. F. Contract price, $2,200. Extra grading around 12 officers' quarters.

GARAGES

STOCKTON, SAN JOAQUIN CO., CAL.—Garage, 2 story and base. Class C construction, $32,000. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name withheld. Designed for a commercial garage and will cover a ground area of 50 by 165 feet. Concrete floor. Metal window sash and frames and fireproof doors. Special gasoline tanks and air compressor. Exterior faced with pressed brick. Plans being prepared.

GOVERNMENT WORK & SUPPLIES

San Francisco Circular No. 196.

The following awards have been made by the depot quartermaster, San Francisco, Cal., under office circular No. 1916:

Bid 1. Universal Trading Co., 220 4th avenue, New York city.
2. Joseph N. Snellenberg, Philadelphia, Pa.
3. Cahn Sales Co., 757 Broadway, New York city.
4. Standard Oil Co., 200 Bush street, San Francisco, Cal.
5. W. S. Ray Mfg. Co., 220 Market street, San Francisco, Cal.
7. Holbrook, Merrill & Stetson, 6th and Bloxume streets, San Francisco.
8. Yates & Co., 762 Folsom street, San Francisco, Cal.
12. Pacific States Electric Co., 575 Mission street, San Francisco, Cal.
14. Underwood Typewriter Co., 531 Market street, San Francisco, Cal.
15. C. J. Hendry Co., 46 Clay street, San Francisco, Cal.
18. George Lawrence Co., Portland, Ore.
19. F. A. Thomas Co., 402 Wells-Fargo Building, San Francisco, Cal.
21. James M. Shaw & Co., 25 Duane street, New York city.
27. Marshall-Wells Hardware Co., Portland, Ore.
31. Schwabacher-Frey Stationery Co., 609 Market street, San Francisco, Cal.
33. National Lead Co. of California, Merchants' Exchange Building, San Francisco, Cal.
34. Pacific Hardware & Steel Co., 7th and Townsend streets, San Francisco, Cal.
36. Johnson & Joseph Co., 34 Sacramento street, San Francisco, Cal.
37. H. S. Crocker Co., 565 Market street, San Francisco, Cal.
38. W. P. Fuller & Co., 301 Mission street, San Francisco, Cal.
39. Dunham, Carrigan & Hayden Co., 140 Kansas street, San Francisco, Cal.

Item 1. 1,000 lanterns, oil and candle, $1.068 ea, bid 1.
2. 100 gals oil, sperm, 79c gal, bid 15.
3. 20 qrs paper, composite stencil, $1.80 gr, bid $1.
4. 10 gals benzine, deodorized, 54c gal, bid 8.
5. 10,000 cards, time recording, $1.50 per M, bid 19.
6. 144 handles, sledge, 36 in, $2.17 doz, bid 1.
7. 144 do, scoop shovel, $3 doz, bid 34.
8, 9, and 10. 300 lbs line, log, 28c lb, bid 36.
11. 25 qrs paper, Underwood duplicator, $1.36 qr, bid 14.
12. 400 sets refills, memo books, 35c per 100 sheets, bid 37.
13. 200 stocks, whip, 4ft 6 in, 19.7c ea, bid 1.
14. 144 wicks, oil stove, 7c ea, bid 4.
15. 48 baskets, dog, $3.75 ea, bid 5.
16. 105 chains halter, 24c ea, bid 18.
17. 100 lbs wax, saddlers', black, 10c lb, bid 27.
18. 24 hooks, cabin door, 49c ea, bid 36.
19. 34 sockets, keyless, 23.89c ea, bid 12.
20. 12 slicers, egg, 10c ea, bid 7.
22. 2,000 tumblers or glasses, mess, 5.5c ea, bid 3.
23. 150 bottles, water, glass, $1.173 ea, bid 2.
24. 500 cups, coffee, china, 11.2c ea, bid 21.
25. 100 bowls, china, cabin, 48c ea, bid 3.
26. 600 chips, butter, 6.85c ea, bid 2.
27. 100 dishes, pickle, shell, 31c ea, bid 21.
28. 200 do, soap, oval, 2.75c ea, bid 2.
29. 100 do, preserve, glassware, 15c ea, bid 3.
30. 12 picks, ice, 25c ea, bid 39.
31. 1,500 plates, china, cabin, 14.87c ea, bid 2.
32, 33, and 34. 30,000 lbs paint, white lead, 9.7c lb, bid 32.
35. 2,000 lbs paint, red lead, dry, 9.95c lb, bid 33.
36. 200 gals paint, white enamel, in 1-gal cans, $1.45 gal, bid 38.
37. 50 gals do, in 1-qt cans, $1.65 gal, do.

Constructing Tunnels.

Contract has been awarded under authority of the Secretary of the Interior to MacArthur Bros. Co., of New York City, the lowest bidders, for the construction of tunnels 1 and 2, Fort Laramie unit, North Platte project, Nebr., at a total price of $242,032.50. The work involves approximately 4,850 lineal feet of tunnel excavation and 12,000 cubic yards of concrete in place, and is situated near the Bridgeport-Guernsey line of the Chicaga, Burlington & Quincy Railway, in the vicinity of Fort Laramie, Wyo.

Building, Yakima Project, Wash.

The following bids were received by the U. S. Reclamation Service for the construction of power plant and pumping plant building:

Bid 1. C. H. Breunn, North Yakima, Wash.
2. Hans Pedersen.

Schedule 1.

Item 1. 900 cu yds excavation, class 1—Bid 1, 80c; 2, 50c.
2. 250 cu yds excavation, class 3—Bid 1, $3; 2, $2.50.
3. 125 cu yds concrete—Bid 1, $12; 2, $18.
4. Placing 4,000 lbs reinforcing steel—Bid 1, 1c; 2, 5c.
5. 400 cu yds backfilling—Bid 1, 50c; 2, 50c.
6. Furnishing and erecting roof, windows, conduits, etc—Bid 1, $750; 2, $825.

Schedule 2.

7. 1,800 cu yds excavation, class 1—Bid 1, 75c; 2, 50c.
8. 80 cu yds excavation, class 3—Bid 1, $2.50; 2, $3.
9. 250 cu yds concrete—Bid 1, $12; 2, $20.
10. Placing 15,000 lbs reinforcing steel—Bid 1, 1c; 2, 4c.
11. 400 cu yds backfilling—Bid 1, 50c; 2, 50c.
12. Furnishing and erecting roof, windows, conduits, etc.—Bid 1, $1,200; 2, $1,080.

Total—Bid 1, $10,060; 2, $12,570.

Puget Sound, Dredging.

Under bids opened by the U. S. engineer at Seattle, Wash., the contract for dredging, removal of cofferdams, etc., at the Puget Sound-Lake Washington locks was awarded to the Erickson Construction Co., of Seattle, Wash., at $14,025.

Canal Structures.

The Reclamation Service is asking for bids for the construction of canal structures on the Flathead project, Mont., involving about 8,000 cubic yards of excavation, 600 cubic yards of reinforced concrete, 2,560 square yards of paving, manufacturing and laying 3,570 linear feet of concrete pipe, and placing 70,500 pounds of structural and reinforcing steel. The work is located from 6 to 8 miles west of Ronan, Mont. Bids will be opened at the U. S. Reclamation Service, St. Ignatius, Mont., July 18, 1916.

Hoopa Valley Indian School, Building.

The following bids were received by the commissioner of Indian Affairs, Washington, D. C., for constructing frame hospital building at the Hoopa Valley Indian School, Cal.:

Mercer, Fraser Co., Eureka, Cal., $14,000; time not stated.

W. D. Lovell, Minneapolis, Minn., $15,700; time 180 days.

Poland & Robinson, Eureka, Cal., $13,675; 180 days.

James E. McDonald, Oakland, Cal., $13,377; 160 days.

Thomas Engelhart, Eureka, Cal., $12,700; time 180 days.

Elsemore & Jacobs, Eureka, Cal., $14,333; time 200 days.

HALLS AND SOCIETY BUILDINGS.

ELMHURST, ALAMEDA CO., CAL.—Lodge gate for country club, 2 story; stone. Cost not stated. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Sequoyah Country Club. Will contain four rooms. Interiors finished in pine. Open fire place. Exterior faced with field stone. Plans complete and work to be done by Day Labor.

HOSPITALS

SAN FRANCISCO—Hospital wiring. Cost not stated. Architect, John Reir, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids will be received up to July 5th between 2 and 3 p. m. by the Board of Public Works for the electric work in the northeast wing of the San Francisco Hospital.

SAN FRANCISCO — Central Emergency Hospital, 2 and 4 story and base. Class A construction, $100,000. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, Grove and Polk streets. Only the first two stories will be erected at this time and these will be occupied by the Central Emergency Hospital. Later two additional stories will be added which will be used by the Board of Health. Architecture will follow closely the lines of the other buildings already erected in the Civic Center. Construc-

tion will be fireproof. Plans are nearly complete and bids will be called for next week by the Board of Public Works.

HOOPA VALLEY, HUMBOLDT CO., CAL.—Hospital, 1 and 2 story, frame. Cost as follows. Architect, U. S. Commissioner of Indian Affairs, Washington, D. C. Owners, United States Government. The following bids were received by the Commissioner of Indian Affairs at Washington, D. C., for the construction of a frame hospital building at the Hoopa Valley Indian School: Mercer-Fraser Co., Eureka, Cal., $14,000; time not stated. W. D. Lovell, Minneapolis, Minn., $15,700; time 180 days. Poland & Robinson, Eureka, Cal., $13,675; time 180 days. Jas. E. McDonald, Oakland, Cal., $13,337; time 160 days. Thomas Engelhart, Eureka, Cal., $12,700; time 180 days. Elsemore & Jacobs, Eureka, Cal., $14,333; time 200 days. No contract has been awarded.

STOCKTON, SAN JOAQUIN CO., CAL.—Physicians' cottages, 2, 1 story, frame, $6,636. Architect, State Architect, George B. McDougall, Sacramento. Owners, State of California. R. S. K. McMillen, 153A Duncan street, S. F., presented the low figure for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento, Stockton and Northern California in this issue.

LOS ANGELES, CAL.—Service building, 5 story and base. Class A construction, $85,000. Engineer, John Schulz, L. A. Owners, Los Angeles County. Location, County Hospital grounds, Mission road. Will cover an area of 73 by 110 feet, and will contain offices and administration departments. Interior finish pine and hardwood. Steam heat, elevator service and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures to be opened on July 24th. General contract will include all work except plumbing, heating, vacuum cleaning, elevators and electric work. Plans on file at the Clerk of the Board of Supervisors, Hall of Records.

Contracts Awarded.

SAN FRANCISCO—Hospital addition, 5 story and base. Class A construction, $300,000. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Contractor, George Wagner, Hearst Bldg., S. F. Contract taken on the percentage basis. The following subcontracts have been awarded: Excavating and grading to Sibley Grading and Teaming Co.; concrete work to Clinton Construction Co.; brick work to White & Gloor; plastering to Frank Stevenson; plumbing to Kiernan & O'Brien; heating to Mangrum & Otter; electric work to Pacific Fire Extinguisher Co.; tile work to Mangrum & Otter.

SEATTLE, WASH.—Hospital, 3 story and base, brick, $60,000. Architect, D. P. Eastman, Northern Bank Bldg., Seattle. Owners, Swedish Hospital Association. Contractors, Hendrickson & Co., Globe Bldg., Seattle. Contract price, $60,000.

SAN FRANCISCO—Hospital dispensary, 2 story and base, reinforced concrete, $19,698.50. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractors, Masow & Morrison, Monadnock Bldg., S. F., general construction and elevator, $17,537; Scott Co., plumbing and heating, $745; E. A. Mantell, electric work and lighting fixtures, $591.50.

SAN FRANCISCO Hospital ward, 2 story and base, reinforced concrete, $19,840. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractor, Neil A. McLean, S. F., general construction, $15,200, Burnham Plumbing Co., plumbing, $2,300; Scott Co., heating, $1,105; F. E. Newberry Electric Works, electric wiring, $1,065; Globe Electric Co., lighting fixtures, $170.

HOTELS

CALIFORNIA—Hotel, 1 and 2 story and base, frame, $60,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Preliminary plans have been prepared for a large hotel of the resort type. The building will contain 150 rooms, office, lounging rooms, parlors, dining rooms and completely equipped kitchen. Exterior will be designed in the Mission style. Only preliminary plans have been prepared and the names of interested persons and the exact location is withheld for the present.

IRRIGATION PROJECTS

SEATTLE, WASH. — Reclamation work, $61,030. Engineers, United States Reclamation Service. Owners, United States Government. Bids opened by the U. S. Reclamation Service for the construction of irrigation improvement at Grand View, Wash., show Hans Pederson, Alaska Bldg., Seattle, low bidder at $61,000. Wood & De Camp of Spokane are second low bidders at $72,000. An award will be made shortly.

LIBRARIES

SAN FRANCISCO—Library, 2 story and base. Class C construction. Cost not stated. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, City and County of San Francisco. Location, 18th avenue and Irving St. Designed for a branch library and will contain two reading rooms, auditorium, stack room, work room and librarian's office. Interior finish pine and hardwood. Maple and tile floors. Steam heat, oil burning plant and vacuum cleaning. Metal book stacks. Exterior faced with pressed brick and terra cotta. Plans being prepared.

ALTURAS, MODOC CO., CAL.—Library, 1 story, frame and plaster. Cost not stated. Architect's name not given. Owners, Modoc County. Plans have been completed for the Carnegie Public Library, and figures are now being taken. There will be one reading room, stack room and office. Interior finish pine and redwood. Maple floor. Stove for heating. Exterior covered with cement plaster. Bids will be opened on July 7th. Plans can be secured from the County Clerk.

MACHINERY WANTED.

A promoter in the Far East, having in view several irrigation projects, wishes to receive catalogs and price lists of pumps and pumping machinery, especially centrifugal pumps capable of raising 2,000 cubic meters of water 9 meters high per hour. Catalogs in French are preferable. Should be sent to the American consulate giving prices in francs c. i. f. port of destination. For particulars address Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to trade opportunity No. 21528.

A firm in the Orient, representing a group of prominent officials and merchants, has requested an American consular officer to assist it in procuring descriptive literature and quotations for concrete mixing plants, sand and mud pumps and dredgers for canal construction upon a considerable scale. The information desired includes also agricultural and mining machinery, including irrigation apparatus and antimony smelting and washing machinery. The members of the firm contemplate a visit to the United States for the purpose of inspecting the machinery most likely to meet their requirements. For further particulars address the Bureau of Foreign and Domestic Commerce, Customhouse, San San Francisco. Refer to trade opportunity No. 21493.

POWER IMPROVEMENTS

EUREKA, HUMBOLDT CO., CAL.—Water pipe. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids will be opened on July 5th at 8 p. m. for furnishing f. o. b. steamer at San Francisco on or before September 15, 1916, 10,000 feet of 2-inch black pipe and 3,000 feet of ¾-inch galvanized pipe, standard weight and random lengths, for the Eureka Water Department.

EUREKA, HUMBOLDT CO., CAL.—Wood stave pipe. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids will be received up to July 5th at 5 p. m. for furnishing f. o. b. dock or cars Eureka, Cal., on or before September 1, 1916, 7,350 feet of 8-inch wood stave redwood pipe, machine-banded in factory or on job, for the city of Eureka water works.

Contracts Awarded.

BERKELEY, ALAMEDA CO., CAL.—Power plant equipment, $68,000. Engineer's name not given. Owners, Regents of the University of California. Contractors, C. C. Moore & Co., Sheldon Bldg., S. F. Contract covers the mechanical equipment for the University power plant.

RAILROAD CONSTRUCTION AND EQUIPMENT

SAN FRANCISCO — Railroad rails, etc. Cost not stated. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Bids will be received by the Board of Public Works on July 10th for furnishing steel rails and joints for use in the Twin Peaks Tunnel. Plans can be secured from the office of the City Engineer.

RESIDENCES

SAN FRANCISCO — Residence, 2 story and base, frame, $6,000. Architect, Charles E. J. Rogers, Phelan Bldg., S. F. Owners, Constrvative Building and Investment Co., Phelan Bldg., S. F. Owners, Conservative west of Pierce. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms tile. Furnace

heat and open fire places. Mantels tile and brick. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Charles Briggs, 1654 7th street, Oakland. Location, east 108th avenue north of Voltaire. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owners, United Home builders, 1537 Broadway, Oakland. Location, north Bay View avenue east of Elliott. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, James McGuinness, 5615 East 17th street, Oakland. Location, west Beaumont north of East 28th street. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile wainscot. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 2 story and base, frame, $3,500. Architect, none. Owner, C. H. Byers, 2810 Fulton street, Berkeley. Location, south Stuart west of Benvenue. Will contain nine rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and shingles. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, William Walston, 5601 East 16th street, Oakland. Location, north Wentworth avenue west of Fairfax. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, E. H. Strang, 2801 23rd avenue, Oakland. Location, east 23rd avenue north of East 29th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

BERKELEY, ALAMEDA CO., CAL.—Residence, 1 story and base, frame, $2,500. Architect, none. Owner, Arvid E. Olson, 2129 Telegraph avenue, Oakland. Location, north Ward east of Mabel. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location, south Broadway opposite Belgrave Place. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, Henry Abenfeld, 3005 King street, Berkeley. Location, west 66th avenue south of Arthur. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RICHMOND, CONTRA COSTA CO., CAL.—Residence, 1 story and base, frame, $1,500. Architect, none. Owner, Thors Hrones, 110 Maple avenue, Richmond. Location, Maple avenue near Cutting. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

PALO ALTO, SANTA CLARA CO., CAL.—Residence, 2 story and base, frame, $20,000. Architect, Frederick H. Meyer, Bankers' Investment Bldg., S. F. Owner, S. W. Smith. Location, corner of Kellogg avenue and Bryant. Will contain fourteen rooms, several baths and sleeping porch. Separate garage. Interior finish pine, hardwoods and white enamel. Hardwood floors. Furnace heat and hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and carpentry work awarded to F. W. Fox, Palo Alto. Balance of the work being done by Day Labor.

SACRAMENTO, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, H. L. Mee, 2116 13th street, Sacramento. Location, 2180 13th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

COLUSA, COLUSA CO., CAL.—Residence, 2 story and base, frame, $7,500. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, J. L. Langdon. Will contain nine rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and hot water circulating system. Bath rooms finished in tile. Mantels tile or brick. Shower bath. Exterior covered with cement plaster. Plans being prepared.

SANTA BARBARA, SANTA BARBARA CO., CAL.—Residence, 2 story and base, frame, $8,000. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. F. Kelly. Will contain eight rooms, three baths and sleepng porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat, open fire places and hot water circulating system. Mantels brick. Bath room finished in tile and equipped with showers. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 2 story and base, frame, $4,000. Architect, none. Owners, E. & A. Co., Syndicate Bldg., Oakland. Location, east Spruce south of Cleveland. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open fire places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

OAKLAND, CAL.—Residence, 1 story and base, frame, $2,000. Architect, none. Owner, I. A. Kellogg, 3404 Champion avenue, Oakland. Location, northeast Laguna avenue and Montana street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors in principal rooms. Open fire place and tile mantel. Automatic water heater. Tile bath. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

LOS ANGELES, CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, A. A. Normandin. Location, Wellington Square. Will contain ten rooms, three baths and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat, hot water circulating system and open fire places. Mantels tile and marble. Exterior covered with cement plaster. Plans complete and figures being taken.

ARCADIA, LOS ANGELES CO., CAL.—Residence, 2 story and base, brick veneer. Cost not stated. Architect, Frederick J. Soper, Story Bldg., L. A. Owner, Dan D. Simms. Will contain a large number of rooms, three baths and sleeping porches. Interior finish cedar and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile and equipped with showers. Exterior covered with brick veneer. Roof shingles. Plans complete and sub-contracts to be awarded.

SAN FRANCISCO—Residences, 2, 2 story and base, frame, $10,000 each. Architect, Henry H Gutterson, 278 Post street, S. F. Owners, St. Francis Home Building Co. Location, St. Francis Wood. Each dwelling will contain

nine rooms, two baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat, open fire places and hot water circulating system. Bath rooms finished in tile and equipped with showers. Mantels tile and brick. Exterior covered with cement plaster and brick veneer. Plans are being prepared.

WOODSIDE, SAN MATEO CO., CAL.—Residence, 2 story and base, frame. Cost not stated. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owner, Mr. Avenali. Will contain twelve rooms, three baths and separate garage. Interior finish hardwood, pine and white enamel. Hardwood floors. Central heating system and open fire places. Automatic water heater. Bath rooms tile and equipped with showers. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

PASADENA, LOS ANGELES CO., CAL.—Residence, 2 story and base, hollow tile, $24,288. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Contractor, James P. Dawson, 763 Oakland street, Pasadena. Contract price, $24,288.

SAN FRANCISCO—Residence alteration and addition, 3, 2 story and base, frame and brick, $69,790. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner, F. W. Bradley Crocker Bldg. Contractor, Collman & Duncan, Sharon Bldg., S. F. Contract price, $69,790.

SCHOOLS

ALAMEDA, ALAMEDA CO., CAL.—School, 2 story and base, brick and concrete. Cost not stated. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. New bids will not be called for on the construction of the Lincoln School in Alameda until additional bonds can be voted. The building, a two-story brick and concrete building, has been out for figures three times and each time all bids have been rejected. The Board of Education at its last meeting went on record as against the policy of constructing less than the required eight rooms and an auditorium.

RED BLUFF, TEHAMA CO., CAL.—School repairs. Cost not stated. Architect, none. Owners, City of Red Bluff. Bids will be received on July 5th for painting and repairs to the two school buildings in Red Bluff. Plans can be secured from E. E. Stevens, Clerk of the Board of Education, Red Bluff.

ALTURAS, MODOC CO., CAL.—School alterations. Cost not stated. Architect, none. Owners, Alturas Grammar School District. Work will consist of constructing a cement floor in the basement and building a timber porch. Other minor work is also included. Plans complete and figures to be opened on July 5th at 2 p. m. Plans from Superintendent of Schools, Modoc.

RICHMOND, CONTRA COSTA CO., CAL.—School heating and ventilating. Cost not stated. Architect, J. B. Ogborn, 611 Macdonald avenue, Richmond. Owners, City of Richmond. Bids will be received up to July 1st at 3:30 p. m. for furnishing and installing a steam heating system and modern ventilating system in the Lincoln School. Heating and ventilating plans by Engineers Leland & Haley, Holbrook Bldg., S. F.

FRESNO, FRESNO CO., CAL.—Schools, 2, 1 story frame, $3,500 each. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Navelencia School District and Lenthel School District. Both buildings designed for district schools and will contain but one class room. Stoves for heating. Exterior rustic. Plans nearly complete and figures to be called for shortly.

WASCO, KERN CO., CAL.—School, 1 story and base. Class C construction, $30,000. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco School District. All bids opened by the Directors of the Wasco Union High School District for the erection of the proposed one-story class C high school building were rejected. Bids were received from three Fresno contractors and ranged from $40,000 to $60,000. It is probable that the plans will be revised and new bids ordered.

LOS ANGELES, CAL.—School, 1 and 2 story, hollow tile, $40,000. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owners, Westlake School for girls. Location, Westmoreland avenue. Designed for a private school for girls. Will contain office, class rooms, an auditorium and gymnasium. Interior finish pine and hardwood with maple floors. Steam heat, oil burning furnace and vacuum cleaning. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

BAKER CITY, ORE.—School, 2 story and base, brick and concrete, $100,000. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Baker City. Contractor, G. H. Waale, Baker City, general construction, $84,567. Fish & Bowen, Baker City, heating and ventilating and plumbing; Phil Brownell, Baker City, electric work.

SEWERS, STREET WORK & WATER SYSTEMS

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on July 6th for street improvements authorized under the following resolution: That a portion of Excelsior avenue be graded, curbed with concrete, guttered with concrete gutters 3 feet wide, paved with oil macadam and sidewalked with cement sidewalks.

OAKLAND, CAL. — Highway construction. Cost as follows. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids were opened on June 19th for the improvement of East 14th street, or the main county road from San Leandro to Hayward on the following propositions: (1) grading, (2) ditching, (3) concrete culverts, (4) 8-inch corrugated iron, (5) 10-inch corrugated iron, (6) 12-inch corrugated iron, (7) 18-inch corrugated iron, (8) 8x29-inch corrugated iron, (9) catch basins, (10) curb gutter, (11) cleaning ditch, (12a) Topeka pavement, (12b) bitulithic pavement, (12c) bituminous pavement, (12d) sheet asphalt, (12e) asphaltic macadam, (12f) alternate pavement. Following is a complete list of the bids:

Johnson-Shea Co., Central Bldg., Oakland, (1) $9,750, (2) $1,100, (3) $2,000, (4) $750, (5) $150, (6) $500, (7) $3,500, (8) $500, (9) $120, (10) $12,600, (11) $600, (12a) $63,600, (12b) $76,850, (12c) $——, (12d) $75,525, (12e) $67,-775, (12f) $——.

Paul & Caldwell, 2926 East 19th street, Oakland, (1) $6,500, (2) $800, (3) $2,130, (4) $600, (5) $264, (6) $406, (7) $2,690, (8) $306, (9) $180, (10) $10,-185, (11) $240, (12a) $71,232, (12b) $71,-232.

Clark & Henery Construction Co., Ochsner Bldg., Sacramento, (1) $6,500, (2) $1,100, (3) $1,900, (4) $625, (5) $300, (6) $440, (7) $3,000, (8) $310, (9) $210, (10) $11,970, (11) $600, (12a) $72,610, (12b) $95,400, (12d) $83,210, (12e) $76,-850.

Ransome-Crummey Co., First National Bank Bldg., Oakland, (1) $9,750, (2) $800, (3) $3,000, (4) $625, (5) $280, (6) $310, (7) $2,600, (8) $500, (9) $540, (10) $13,650, (11) $240, (12a) $63,070, (12b) $79,500, (12c) $68,900, (12d) $75,-790, (12e) $64,660.

Eaton & Smith, 407 11th street, San Francisco, (1) $13,000, (2) $1,000, (3) $2,000, (4) $375, (5) $170, (6) $200, (7) $1,400, (8) $380, (9) $720, (10) $13,650, (11) $480, (12a) $82,415, (12f) $82,115.

Blanchard-Brown Co., 660 Market street, San Francisco, (1) $9,750, (2) $600, (3) $1,890, (4) $550, (5) $264, (6) $384, (7) $2,880, (8) $670, (9) $331.20, (10) $16,380, (11) $600, (12a) $70,649, (12b) $95,400, (12c) $84,450, (12d) $80,-83, (12e) $84,800.

City Street Improvement Co., 166 Geary street, San Francisco, (1) $6,-500, (2) $1,200, (3) $1,900, (4) $650 (5) $320, (6) $360, (7) $2,600, (8) $300, (9) $150, (10) $16,800, (11) $240, (12a) $71,550, (12d) $76,850, (12e) $84,890.

Raisch Improvement Co., 1008 Crocker Bldg., San Francisco, (1) $13,000, (2) $1,300, (3) $2,400, (4) $750, (5) $330, (6) $500, (7) $3,400, (8) $600, (9) $420, (10) $15,750, (11) $480, (12a) $84,111.

California Bitulithic Co., 1300 Franklin street, Oakland, (1) $5,850, (2) $1,-100, (3) $1,820, (4) $625, (5) $292, (6) $350, (7) $2,400, (8) $296, (9) $142.20, (10) $15,330, (11) $180, (12a) $66,780, (12b) $82,680, (12c) $74,730, (12d) $77,-380, (12e) $72,080.

P. Mathieson, (1) $9,750, (2) $800, (3) $1,500, (4) $350, (5) $160, (6) $180, (7) $1,200, (8) $300, (9) $240, (10) $12,-600, (11) $480, (12a) $66,250, (12e) $66,-250.

OAKLAND, CAL.—Street improvement. Cost not stated. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on July 6th for street improvements authorized under the following resolutions: That 50th avenue, from the southwest line of East 12th street to a straight line drawn from the intersection of the southeast line of 50th avenue with the southwest line of East 10th street to a point on the northwest line of 50th avenue distant therefrom 50.114 feet northeast from the northeast line of East 10th street, be graded, curbed with redwood, concrete gutters 3 feet wide and paved with oil macadam: also corrugated iron and concrete culverts, each having two branches.

That a sewer having an internal diameter of 8 inches be constructed along the center line and its production of 45th avenue from the center line of Clement street to a point 360 feet northeast therefrom, measured parallel to the northwest line of said 45th avenue; also a tamphole with a brick and cast iron top and Y branches

having 5-inch openings be constructed of vitrified sewer pipe.

That portions of 33rd avenue ge graded, curbed with redwood, concrete gutters, 3 feet wide and paved with oil macadam; also a vitrified pipe conduit be constructed, brick storm water inlets with cast iron tops, and a brick manhole with cast iron top.

SAN LEANDRO, Alameda Co., Cal.—Furnishing rock. Cost not stated. Engineer, City Engineer, San Leandro. Owners, City of San Leandro. At the last meeting of the Board of Trustees, bids for the furnishing and laying of screenings and crushed rock on the streets of the town were received from E. B. & A. L. Stone Co., D. U. Toffelmier, Leona Heights Quarries, and the Niles Sand, Gravel and Rock Co. A. H. Kupperud submitted a bid for supplying and laying street oil. Bids will be considered at the next meeting of the Board.

NAPA, NAPA CO., CAL.—Highway improvement. Cost not stated. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on July 25th at 10 a. m. for the improvement of a part of the roadway of the county road leading from Napa to Napa Soda Springs, at a point about one and five-eights miles north of the "Little Trancas bridge."

FRESNO, FRESNO CO., CAL.—Furnishing cement. Cost not stated. Engineer, County Surveyor, Fresno. Owners, Fresno County. Bids will be opened on July 8th at 11 a. m. for furnishing the County of Fresno with 2,205 barrels of Portland cement f. o. b. Selma, Cal., in the original packages with the brand and name of the manufacturer plainly marked thereon at the time of delivery. Said Portland cement shall conform to the standard specifications for Portland cement adopted by the American Society for Testing Materials, August 16, 1909, and amendments thereto, supplemental and amendatory thereof. If cement is delivered in cloth bags, all such bags to be returned to bidder f. o. b Selma, Cal.

MODESTO, STANISLAUS CO., CAL.—Highway improvement. Cost not stated. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Bids will be opened on July 11th at 2 p. m for applying the wearing surface on the Newman and McHenry roads.

EUREKA, HUMBOLDT CO., CAL.—Sewer pipe. Cost not stated. Engineer, City Engineer, Eureka. Owners, City of Eureka. Only one bid was received by the City Council for furnishing 500 feet of 8-inch sewer pipe for Myrtle avenue. The bid was rejected and the Sewer Committee was authorized to purchase the pipe in the open market.

CON AWARD

VALLEJO, SOLANO CO., CAL—Street paving, $52,568.87. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The Worswick Construction Co., Union National Bank Bldg., Fresno, Cal., was the lowest bidder for the street improvement job in the northwest district of Vallejo. The bid was $52,492.92. Other bids were: Johnson, Shea & Co., $58,568.87; Clark & Henery Construction Co., $65,140.12; Federal Construction Co., $55,100.75; Ransome-Crummey Co., $58,718.47.

HEALDSBURG, SONOMA CO., CAL.—Disposal system extension. Cost not stated. Engineer, City Engineer, Healdsburg. Owners, City of Healdsburg. Bids will be opened on July 11th at 8 p. m. for the construction of an extension of the present sewerage disposal system.

SALINAS, MONTEREY CO., CAL.—Highway construction. Cost not stated. Engineer, County Surveyor, Salinas. Owners, Monterey County. Bids will be opened on July 5th at 2 p. m. for the construction of a new road (No. 269) in Tularcitos Road District, Monterey County.

SACRAMENTO, CAL. — Street improvements. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on July 6th for street improvements authorized under the following resolutions: That Miller avenue in Wright & Kimbrough Tracts Nos. 27 and 30 be improved. Also that the alleys on the north, east and west sides of Wright & Kimbrough Tract No. 27 be improved by constructing 8 and 10-inch, vitrified, ironstone pipe sewers, 7 concrete manholes complete, 2 6-inch flusher branches complete, and 110 6-inch Y branches with covers.

REDWOOD CITY, SAN MATEO CO., CAL.—Cast iron pipe. Cost not stated. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees, Street Superintendent Dickey was given authority to purchase 420 feet of 4-inch cast iron water pipe to be used on El Camino Real road between Oak and Redwood avenues.

Contracts Awarded.

SACRAMENTO, CAL. — Street improvement. Cost not stated. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contracts for street improvements have been awarded under the following resolutions: That 3rd street, from the south line of Q street to the north line of T street, be improved by removing and disposing of all surplus and refuse materials, grading the roadway and constructing thereon an asphaltic macadam pavement consisting of a hydraulic concrete foundation 4 inches thick at the gutter and running to 5 inches and an asphaltic wearing surface 1½ inches thick. Awarded to the McGillivray Construction Co., 1007 7th street, Sacramento.

That 3rd street from the south line of T street to the north line of the alley between X and Y streets, be improved by removing and disposing of all surplus and refuse material, grading the roadway and constructing an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic wearing surface 1½ inches thick. Awarded to the McGillivray Construction Co., 1007 7th street, Sacramento.

DUNSMUIR, SISKIYOU CO., CAL.—Street paving. Cost not stated. Engineer, City Engineer, Dunsmuir, Owners, City of Dunsmuir. Contractor, T. M. Burns, 2207 N street, Sacramento. Contract price not stated.

STOCKTON, SAN JOAQUIN CO., CAL.—Sewers. Cost as follows. Engineer, City Engineer, Stockton. Owners, City of Stockton. Five bids were received by the City Council for the construction of the sanitary main sewers along Fair Oaks avenue, from Marsh to East street, East street to Oak, Oak to West, West to Smith's Canal, with a branch on Union from Acacia to Oak street. City Engineer Compton's estimate amounted to $48,577.11. Following is a list of the bids: Tibbitts-Pacific Co., S. F., $61,290.11; Chambers & Heafy, Oakland, $53,899.07; Michael Murphy, Berkeley, $62,581.89; Frank C. McIntire, Stockton, $49,450.77; Frank S. Ostrander, S. F., $59,120.98. Contract was awarded to Frank C. McIntire, 215 East Weber street, Stockton.

Bids for the construction of the storm sewers along Scott avenue, Fisher street and John street, in the Fisher addition, were received as follows: J. J. Calisch Co., $1,14-.49; Chambers & Heafy, Oakland, $1,504.32; Fred Leffler, S. F., $1,650.05; Frank McIntire, Stockton, $1,460.00; W. S. Gause, Oakland, $1,410.80; W. F. Edwards, Oakland, $1,491.58. Engineer's estimate, $1,762.75. Contract awarded to W. S. Gause, 15 Park Way, Oakland, Cal.

SOUTH SAN FRANCISCO, SAN MATEO CO., CAL.—Street improvements, $31,294.70. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. Contractors, Petersen & Grier, 62 Post street, S. F. Contract price, $31,294.70.

RICHMOND, CONTRA COSAA CO., CAL.—Street work, $4,400. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractors, Moffitt & Mead, Monadnock Bldg., S. F. Contract price, $4,400.

STORES AND OFFICES

SAN FRANCISCO—Stores, 1 story and base, brick, $10,000. Architect, A. W. Burgren, 30 Woodland avenue, S. F. Owner's name not given. Location, north McAllister near Gough, covering an area of 52½ by 120 feet. Will contain small stores. Interior finish pine with some hardwood in the display windows. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

SAN FRANCISCO—Stores, 1 story, frame, $4,000. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location, Castro street, covering an area of 25 by 125 feet. Will contain one store. Interior finish pine and redwood with some hardwood in display windows. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures to be taken.

SAN FRANCISCO—Physicians' building, 4 story and base, reinforced concrete, $75,000. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owner, Dr. Albert Abrams. Location, southeast Leavenworth and Sutter, covering an area of 62 by 87½ feet. Will contain high class offices for physicians and dentists with living apartments. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Steam heat, oil burning system, elevator and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

RICHMOND, CONTRA COSTA CO., CAL.—Stores and rooms, 2 story and base, brick, $6,000. Architect, J. B. Ogborn, 464 13th street, Richmond. Owner, J. W. Martin. Location, 3rd and Macdonald avenue. Will contain store, saloon and barber shop. Upper floor will contain twelve rooms. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior

faced with pressed brick. Plans complete and figures being taken.

Contracts Awarded.

LOS ANGELES, CAL.—Stores and lofts, 3 story and base. Class A construction, $50,000. Architect, John Parkinson, Security Bldg., L. A. Owners, Firestone Rubber Co., Contractors, F. O. Engstrom Co., 5th and Seaton streets, L. A. Contract price, $50,000.

THEATRES

BURLINGAME, SAN MATEO CO., CAL.—Theatre and stores, 2 story and base, reinforced concrete, $45,000. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Mr. Gates. Will contain a large and modern motion picture theatre and several stores. Interior finish pine and hardwood with some ornamental plaster. Modern ventilating and electric work. Exterior faced with cement plaster. Patent store fronts and marble bases. Plans are being revised and new figures will be called for shortly.

SEALED PROPOSALS

PROPOSALS FOR CANAL WORK.

CANAL WORK—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, St. Ignatius, Mont., until **2 o'clock p. m. July 18, 1916,** for the construction of canal structures on the Flathead project, Montana, involving about 8,000 cubic yards of excavation, 600 cubic yards of reinforced concrete, 2,560 square yards of paving, manufacturing and laying 3,570 linear feet of concrete pipe and placing 70,500 pounds of structural and reinforcing steel. The work is located from 6 to 8 miles west of Ronan, Mont. For particulars address the United States Reclamation Service, Washington, D. C.; Denver, Colo., or St. Ignatius, Mont. A. P. DAVIS, chief engineer.

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1055 — Proposals for Stayholt Iron, Galvanized Steel or Iron, Drill Steel Rods, Steel Cable, Wire Netting, Wire, Nails, Track Spikes, Boat Spikes, Bolts, Rivets, Tubing, Sheet Brass, Sheet Copper, Bronze, Toe Calks, Cable Clips, Ferrules, Grommets, Brass Washers, Valves, Cocks, Pulleys, Pipe-Threading Machine, Crucibles, Riddles, Anchors, Chaplet Stems, Life Preservers, Oars, Wagon Rims, Oar Locks, Lettering Brushes, Door Mats, Mane Combs, Water Coolers, Chinaware, Kitchen Utensils, Panel Boards, Electrical Attachments, Leather, Manila Rope, Oakum, Towels, Paper Roofing, Wrapping Paper, Paper Towels, Paper Drinking Cups, Blank Books, Pencils, Ashestos Cement, Floor Wax, Vaseline, Putty, White Lead, Lampblack, Lard Oil, Turpentine Substitute, Benzine, Drier, Muriatic Acid, Carbon Bisulphide, Carbonate of Soda, Shellac, Paints, White Ash, and White Oak Lumber.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. July 7, 1916,** at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1055) may be obtained from this office or the offices of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL L. BROWN, major, corps of engineers, U. S. A., general purchasing officer.

PROPOSALS FOR WINCH.

WINCH—Department of the Interior, U. S. Reclamation Service, Washington, D. C.—Sealed proposals will be received at the office of the United States Reclamation Service, Washington, D. C., until **2 o'clock p. m. July 5, 1916,** for furnishing one winch for steel shutter for Elephant Butte Dam. For particulars address the United States Reclamation Service, Washington, D. C. A. P. DAVIS, chief engineer.

NOTICE TO CONTRACTORS.

NOTICE is hereby given that sealed bids will be received by the Board of Supervisors of San Mateo County, California, up to **Monday, the 10th day of July, 1916, at the hour of ten o'clock A. M.** for the construction of cell work, locking devices, plate work, metal window guards and doors, stair cases, metal frames, gratings, bunks, etc., for the San Mateo County Jail at Redwood City, California, all as shown in and described by revised plans and specifications as prepared by Will H. Toepke, Architect, and approved by the Board of Supervisors on June 12th, 1916.

Said building to be erected upon the easterly line of Webster street north of Broadway.

Estimates on labor and material necessary to furnish and install complete all cell work, locking devices, plate work, metal window guards and doors, stair cases, metal frames, gratings, bunks, etc., all as shown in and described by plans and specifications marked Jail Specification.

Bidders will be required to submit with their proposal a certified check or certificate of deposit on some responsible Bank or Trust Company in the sum of ten (10%) per cent of their bid. Said check to be made payable to the County Treasurer of the County of San Mateo, and will be held as security that the bidder will enter into a written contract with the Board of Supervisors of the County of San Mateo if awarded the contract within ten (10) days from date of award. In the event of a breach of the terms under which this check is held, the said check or certificate of deposit will be cashed and the proceeds thereof placed to the credit the building fund of said County of San Mateo.

The successful bidder will further be required to give a bond from a satisfactory Surety Company in the sum of fifty (50%) per cent of his contract price, conditional for the faithful performance of his contract within the time limited, and to further insure the payments of all claims for labor and material furnished on the work.

The successful bidder will also be required to protect the County against liability arising under the Workmen's Compensation Act and against any and every contingency under which the county might be held liable during the progress of all the work connected with the construction of said Jail Building.

The contract will provide for the retention of twenty-five (25%) per cent of the contract price for thirty-five (35) days after the completion of the work, and the filing of the notice of completion thereof. Bidders will take notice that there is now available for the purpose of constructing said Jail Building the sum of $12,857.00; that sixty (60%) per cent of the remainder of the amount necessary for the construction of said Jail Building will be available in cash on or about January 1, 1917, and that the balance will be available in cash about June 1, 1917. The contract price will be made payable in installments as the work progresses and as the funds are actually available.

Sealed estimtes should be fined with the Clerk of the Board of Supervisors.

The said Board of Supervisors of said County hereby reserves the right to reject any and all bids.

Plans and specifications can be seen and secured at the County Clerk's Office in Redwood City, or at the office of the Architect, W. H. Toepke, No. 46 Kearny Street, Room 508, San Francisco, California.

All bidders estimating on work will be required to deposit the sum of twenty-five ($25.00) Dollars in check or cash on securing the plans and specifications. This amount to be returned to the Contractor when plans and specifications are returned in good condition.

By order of the Board of Supervisors.
JOS. H. NASH, Clerk

PROPOSALS FOR BUILDING.

OFFICE of the Clerk of the Board of Supervisors, Alameda County, California.

Sealed bids will be received by the Clerk of the Board of Supervisors of Alameda County, at his office until **10 o'clock a. m., on Monday, August 7th, 1916,** (the day when said bids will be opened), for the construction of an Annex to the Hall of Records, situated at Fifth and Broadway Streets, in the city of Oakland, County of Alameda, State of California.

Bids will be received on each of the following departments of work:

Department No. 1—Excavating, brick work, stone work, concrete work, carpenter work, mill work, glass, stairs, steel fire doors, ornamental and miscellaneous iron and steel work, window guards, plastering, lathing, cementing, damp-proofing, felt and gravel roofing, sheet metal, skylights, hardware, painting, tinting.

Department No. 2—Plumbing, drains and gas fitting.

Department No. 3—Electrical work.

Department No. 4—Marble work, tiling.

Department No. 5—Heating.

Department No. 6—Elevator work.

Department No. 7—Well boring and casing.

Complete plans and specifications for each of these separate departments of work are on file in the Hall of Records Building, Oakland, where copies may be obtained, by depositing with the County Clerk the sum of Ten Dollars ($10.00). Contractors will be restricted as to the length of time they may retain these plans and specifications to twelve (12) days on department No. 1 and to five (5) days on all other departments.

Contractors failing to return said plans and specifications within said time limit will forfeit their deposit. The entire amount of the deposit will be returned to contractors returning plans and specifications in good condition within said time limits.

Each bid must be accompanied by a check for at least ten per cent of the amount of the bid, certified to by some responsible bank, and made payable to Geo. E. Gross, Clerk of the Board of Supervisors of Alameda County, to be forfeited to the County of Alameda as agreed and liquidated damages should the party or parties to whom the contract shall be awarded fail to enter into the contract after the award or to give the bond required by the Board for the faithful performance of the contract.

Dated June 20, 1916. (Seal)
Seal) GEO. E. GROSS,
Clerk of Board of Supervisors of the County of Alameda.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of Lewis P. Hobart, Crocker Building, San Francisco, Cal., at or before **3:00 P. M., Wednesday, July 19, for the Linoleum for the University Hospital, at Fourth and Parnassus Aves., San Francisco, Cal.,** and as per plans and specifications on file and obtainable at the Cashier's window in the Comptroller's Office of the University of California, Berkeley, California.

A deposit of $50.00 will be required for each set of plans and specifications taken out which deposit will be refunded upon return of said plans and specifications accompanied by a regular bid for the work. No bids will be received unless accompanied by a certified check or bond in favor of the understgned equal to 10% of the bid, to secure execution of the contract by the successful bidder.

The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

PROPOSALS FOR CANAL SUPPLIES.

PANAMA CIRCULAR 1050 — Proposals for Steel Office Furniture, Including Bookcases, Filing Cabinets, Desks and Wardrobes; Office Chairs; Furniture for Quarters, including Iron Beds, Refrigerators, Chiffoniers, Dressers, Sideboards, Tables and Chairs.—Sealed proposals will be received at the office of the general purchasing officer, the Panama Canal, Washington, D. C., until **10:30 a. m. June 30, 1916,** at which time they will

be opened in public for furnishing the above mentioned articles. Blanks and general information relating to this circular (No. 1050) may be obtained from this office or the office of the assistant purchasing agent, Fort Mason, San Francisco, Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal. EARL I. BROWN, major, corps of engineers, U. S. army, general purchasing officer.

PROPOSAL FOR BIDS.

SEALED BIDS will be received at the office of the Comptroller, University of California, Berkeley, California, **at or before 9 A. M., Wednesday, July 12, 1916, for the Excavation and Concrete, Exterior Cement, Finish, Roofing and Sheet Metal, Interior Furring, Lathing and Plastering, Carpentry and Cabinet Work, Marble and Terrazzo, Plumbing, Heating and Ventilating, and Electric Wiring** on Hilgard Hall and on the Chemistry Building separately, and for the **Elevator** in the Chemistry Building and for the **Acoustic Felt** on both buildings which are located on the grounds of the University of California.

Plans and specifications may be obtained at the Cashier's window in said office after 9 A. M. Tuesday, June 20th, on written application received prior to that date, accompanied by a deposit of $50.00 for each set of plans and specifications requested, which deposit will be refunded on return of said plans and specifications accompanied by a regular bid for the work. Plans will be given out in the order in which applications are received.

No bids will be received unless accompanied by a certified check or bond in favor of the undersined, equal to 10% of the bid, to secure execution of the contract by the successful hidder. The right is reserved to reject any or all bids.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA. (*)

STATE OF CALIFORNIA.

DEPARTMENT OF ENGINEERING.

CALIFORNIA HIGHWAY COMMISSION

NOTICE TO CONTRACTORS.

SEALED PROPOSALS will be received at the office of **the California Highway Commission, 515 Forum Building, Sacramento, Cal., until 2 o'clock P. M. on July 10, 1916**, at which time they will be publicly opened and read for construction in accordance with the specifications therefor, to which special reference is made, portions of State highway as follows:

Marin County, from Larkspur to Sausalito (IV-Mrn-1-B), about 6.0 miles in length, to be paved with Portland cement concrete.

Glenn County, at Walker Creek (III-Gle-7-B), about 1.0 miles in length, to be paved with Portland cement concrete, includes a reinforced concrete bridge about 100 feet long over Walker Creek.

Ventura County, about one mile east of Camarillo (VII-Ven-2-B), a reinforced concrete bridge having one span of 36 feet.

Plans may be seen, and forms of proposals, bonds, contract, and specifications may be obtained, at the said office, and they may be seen at the office of the Division Engineers at Los Angeles and San Francisco, and at the office of the Division Engineer of the division in which the work is situated. The Division Engineers offices are located at Willits, Dunsmuir, Sacramento, San Francisco, San Luis Obispo, Fresno, and Los Angeles.

No bid will be received unless it is made on a blank form furnished by the Commission. The special attention of prospective bidders is called to the "Notice to Contractors" annexed to the blank form of proposal, for full directions as to bidding, quantities of work to be done, etc.

The Department of Engineering reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

CHARLES D. BLANEY,
NEWELL D. DARLINGTON,
CHARLES F. STERN,
California Highway Commission.
AUSTIN B. FLETCHER,
Highway Engineer.
WILSON R. ELLIS,
Secretary. (*)

Dated: June 7, 1916.

NOTICE TO CONTRACTORS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 9, 1916.—SEALED PROPOSALS will be opened in this office **at 3 P. M., August 7, 1916, for the mechanical equipment (except elevators, lift and lighting fixtures) of the new United States Post Office at Portland, Oregon.** Drawings and specifications may be obtained, after June 19, 1916, from the Custodian of site at Portland, Oregon, or at the office of the architect, Lewis P. Hobart, 1122 Crocker Bldg., San Francisco, California, or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect. (*)

MANY TROUT DIE IN IRRIGATION DITCHES.

WASHINGTON, June 20.—Thorough tests of devices to prevent fish from entering irrigation ditches are to be made by Forest Service officers, who say that thousands of the trout placed in western streams by the Government are killed through being carried into the ditches and washed out on the fields. There are not less than 1,200 irrigation projects on or near the National Forests, and in many places the loss of trout is very heavy. The amount of water used in irrigation, it is said, often determines the advisability of artificially stocking the streams.

The Government, in cooperation with the California State Fish and Game Commission, annually plants large quantities of fish fry in the streams of the National Forests in California. This is done to render the forests more attractive to the public by affording good fishing. Where much of the water is used for irrigation, unless the ditches are screened, the trout enter and are washed out on the fields. While fish are said to make good fertilizer officials think that trout are too expensive to be used for that purpose.

Most of the States in the West have laws requiring that the ditches be screened, but these laws are seldom enforced. The farmers are said to dislike the screens, because they collect drift—wood and trash—which prevents the free flow of the water. Very often too, it is stated, the farmers can supply their families with a mess of fish by collecting the trout which are found in the fields.

A number of devices for screening the ditches are in use, and while two or three have been found to be fairly effective most of them are said to be unsatisfactory. It is asserted that this subject presents an excellent opportunity for inventors, since a successful screen will be sure to be widely used. Under present conditions officials are slow to recommend that the trout be placed in streams where they are apt to be led off into the irrigation ditches.

SAND-LIME BRICK.

The Geological Survey now has available for distribution its annual statement on sand-lime brick. During the year 1915 the quantity of sand-lime brick sold showed an increase of 7,014,000 brick, or 4 per cent, and the value showed an increase of $76,592, or 7 per cent, over 1914.

BUILDING A BATTLESHIP.

Do you know how many hours' work it takes to build a modern dreadnaught? Probably you have never given the matter a thought, so it will interest you to learn that a big battleship entails about 7,200,000 man hours, or labor equivalent to the work of one man working that time.

The making of the turbine machinery absorbs some 1,850,000 man hours, and the mountings of the big guns can easily acquire two years' work, while a single armor plate may take nearly three months to finish. None of these processes can be unduly hurried, as the very best work must be put in, the least scamping making all the difference between victory and defeat.

Between 40 and 50 per cent of the cost of a dreadnaught's hull goes in labor. Curiously enough, far less is spent on labor when constructing a turbine engine than when making one of the old reciprocating type. Much of the material is made by machinery, leaving only 28 per cent of the cost for labor, whereas 45 per cent went in wages when the older kind were in use.—London Telegraph

MODIFICATION OF BUILDING CONTRACT.

The John Bollman Co. with Lange & Bergstrom, extending date of completion of three-story and basement reinforced concrete building on SE Fourth and Brannan, from July 1, 1916 to July 15, 1916. Filed June 23, 1916. Dated June 9, 1916.

STATE CORPORATION DEPARTMENT

Brighton Beach Land Amusement Co. San Francisco, has been authorized by the State Corporation Department to hypothecate bonds of the face value of $14,000 in connection with the contract for construction of improvements in the company's property.

NEW BRICK AND TILE COMPANY FORMED.

MODESTO, Stanislaus Co., Cal.—The Union Brick & Tile Company, Capital Stock, $50,000, has filed articles of incorporation with the County Clerk and work will be started shortly on the construction of a large plant about two miles north of Modesto for the manufacture of brick of all varieties, building tile and blocks, and irrigation tile.

The directors of the new enterprise are: D. W. Morris, N. E. Leek, W. A. Downer, J. S. West and W. M. Anderson. Anderson is the promoter of the enterprise.

BEGIN $20,000 BLOCK.

VISALIA, Cal.—Work has begun on the new Lillie and Cross block at Visalia, which is to cost $20,000. The building will be two stories high and constructed of brick and cement. Work has been delayed owing to the title to the land having been questioned.

ADVANCE CONSTRUCTION NEWS.

Classified According to Location.

SAN FRANCISCO

RESIDENCE — 2 story and base, frame, $6,000. San Francisco. Architect, Chtrles E. J. Rogers, Phelan Bldg., S. F. Owners, Conservative Building and Investmen Co., Phelan Bldg., S. F. Location, south Filbert west of Pierce. Will contain eight rooms, two baths and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors througout. Bath rooms tile. Furnace heat and open fire places. Mantels tile and brick. Automatic water beater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Arcbitect, J. C. Hladik, Monadnock Bldg., S. F. Owner, Mrs. Anna Hladik. Location, east Fillmore south of Broadway. Will cover an area of 37½ by 56½ feet. Will contain six apartments of three and four rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning furnace and hot water system. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor under the direction of Otto Carson.

APARTMENT HOUSE—5 story and base. Class C construction, $60,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F Owners, O'Brien Bros. Location, south Bush west of Powell, covering and area of 45½ by 137½ feet. Will contain a number of two and three room suites and also some single rooms with baths. Interior finish pine, hardwood and white enamel. Hardwood floors. Steam heat, oil burning equipment, hot water supply and automatic elevator. Bath rooms finished in tile and equipped with showers. Wall beds and vacuum cleaning. Marble and tile wainscot in the lobby. Ornamental plaster. Exterior faced with pressed brick trimmed with terra cotta. Plans complete and segregated figures to be let at once.

APARTMENT HOUSE—3 story and base, frame, $15,000. San Francisco. Architect, none. Owner, R. O'Connor, represented by J. C. Bateman, Balboa Bldg., S. F. Location, northwest 24th and Castro. Will contain four stores on the ground floor and eight modern apartments on the upper floors. Interior finish pine and white enamel with some hardwood floors. Steam heat and oil burning equipment. Patent store fronts and marble bases. Wall beds. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—6 to 10 story and base. Class A construction, $200,000. San Francisco. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location not given. Will cover an area of 100 by 150 feet. Only preliminary plans have been prepared and the exact location and names of the interested parties cannot be given at this time. Further mention will be made of the work as plans progress.

STORES—1 story and base, brick, $10,000. San Francisco. Architect, A. W. Burgren, 30 Woodland avenue, S. F. Owner's name not given. Location, north McAllister near Gough, covering an area of 52½ by 120 feet. Will contain small stores. Interior finish pine with some hardwood in the display windows. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

STORES—1 story, frame, $4,000. San Francisco. Architects, Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Location, Castro street, covering an area of 25 by 125 feet. Will contain one store. Interior finish pine with some hardwood in display windows. Patent store fronts and marble bases. Exterior covered with cement plaster. Plans complete and figures to be taken.

RESIDENCES—2, 2 story and base, frame, $10,000 each. San Francisco. Architect, Henry H. Gutterson, 278 Post street, S. F. Owners, St. Francis Home Building Co. Location, St. Francis Wood. Each dwelling will contain nine rooms, two baths, sleeping porch and basement garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat, open fire places and hot water circulating system. Bath rooms finished in tile and equipped with showers. Mantels tile and brick. Exterior covered with cement plaster and brick veneer. Plans are being prepared.

RICE MILL—2 and 4 story, mill construction, $50,000. San Francisco. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owners, Growers' Rice Milling Corporation. Location, Third and Islais Creek. Will cover a ground area of 50 by 200 feet. Mill portion four stories and warehouse two stories. Office finished in pine. Metal window sash and frames and fireproof doors. Cement and pine floors. Special machinery not included in contract. Exterior faced with corrugated iron. Plans complete and figures being taken.

HOSPITAL WIRING—Cost not stated. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Bids will be received up to July 5th between 2 and 3 p. m. by the Board of Public Works for the electric work in the northwest wing of the San Francisco Hospital.

CENTRAL EMERGENCY HOSPITAL —2 and 4 story and base. Class A construction, $100,000. San Francisco. Architect, John Reid, Jr., First National Bank Bldg., S. F. Owners, City and County of San Francisco. Location, Grove and Polk streets. Only the first two stories will be erected at this time and these will be occupied by the Central Emergency Hospital. Later two additional stories will be added which will be used by the Board of Health. Architecture will follow closely the lines of the other buildings already erected in the Civic Center. Construction will be fireproof. Plans are nearly complete and bids will be called for next week by the Board of Public Works.

LIBRARY—2 story and base. Class C construction. Cost not stated. San Francisco. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owners, City and County of San Francisco. Location, 18th avenue and Irving St. Designed for a branch library, and will contain two reading rooms, auditorium, stack room, work room and librarian's office. Interior finish pine and hardwood. Maple and tile floors. Steam heat, oil burning plant and vacuum cleaning. Metal book stacks. Exterior faced with pressed brick and terra cotta. Plans being prepared.

RAILROAD RAILS, ETC—Cost not stated. San Francisco. Engineer, City Engineer, City Hall, S. F. Owners, City and County of San Francisco. Bids will be received by the Board of Public Works on July 10th for furnishing steel rails and joints for use in the Twin Peaks Tunnel. Plans can be secured from the office of the City Engineer.

PHYSICIANS' BUILDING — 4 story and base, reinforced concrete, $75,000. San Francisco. Architect, G. Albert Lansburgh, 709 Mission street, S. F. Owner, Dr. Albert Abrams. Location, southwest Leavenworth and Sutter, covering an area of 62 by 87½ feet. Will contain high class offices for physicians and dentists with living apartments. Interior finish pine, hardwood and white enamel. Hardwood and tile floors. Steam heat, oil burning system, elevator and hot water supply. Bath rooms tile. Marble and tile wainscot. Exterior faced with pressed brick trimmed with terra cotta. Plans being prepared.

Contracts Awarded.

HOSPITAL ADDITION—5 story and base. Class A construction, $300,000. San Francisco. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owners, Trustees of Leland Stanford, Jr., University. Contractor, George Wagner, Hearst Bldg., S. F. Contract taken on the percentage basis. The following subcontracts have been awarded: Excavating and grading to Sibley Grading and Teaming Co.; concrete work to Clinton Construction Co.; brick work to White & Gloor; plastering to Frank Stevenson; plumbing to Kiernan O'Brien; heating to Mangrum & Otter; electric work to Pacific Fire Extinguisher Co.; tile work to Mangrum & Otter.

RESIDENCE ALTERATION AND ADDITION—2 story and base, frame and brick, $69,790. San Francisco. Architect, Charles Peter Weeks, Mutual Bank Bldg., S. F. Owner, F. W. Bradley, Crocker Bldg. Contractors, Collman & Duncan, Sharon Bldg., S. F. Contract price, $69,790.

ENGINE HOUSE—2 story and base, brick and steel, $24,750. San Francisco.

Architects, Ward & Blohme, Alaska Commercial Bldg., S. F. Owners, City and County of San Francisco. Contractor, John Spargo, 240 Montgomery street, S. F., general construction only. Contract price, $24,750.

WAREHOUSE—3 story and base, brick and steel, $30,000. San Francisco. Architect, none. Owners, Enright Estate, leased to Rosenberg Co. Contractor, F. H. Barnes, 1381 Stevenson street, S. F. Note: Contractor letting sub-contracts.

FACTORY PLUMBING—$2,500. San Francisco. Architect, August G. Headman, Call Bldg., S. F. Owners, J. Allec Cleaning and Dyeing Works. Contractor, Jerry Looney, 85 City Hall avenue, S. F., plumbing only, $2,500.

HOSUITAL DISPENSARY — 2 story and base, reinforced concrete, $19,698.-50. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractors, Masow & Morrison, Monadnock Bldg., S. F., general construction and elevator, $17,537; Scott Co., plumbing and heating, $745; E. A. Mantell, electric work and lighting fixtures, $591.50.

HOSPITAL WARD—2 story and base, reinforced concrete, $19,840. San Francisco. Architect, Constructing Quartermaster, Fort Mason. Owners, United States Government. Contractor, Neil A. McLean, S. F., general construction, $15,200; Burnham Plumbing Co., plumbing, $2,300; Scott Co., heating, $1,105; F. E. Newberry Electric Works, electric wiring, $1,065; Globe Electric Co., lighting fixtures, $170.

FIRE PROTECTION SYSTEM — $1,-981.75. San Francisco. Engineer, Construction Quartermaster, Fort Mason. Owners, United States Government. Contractor, Michael Murphy, 1321 Milvia street, Berkeley. Contract price, $1,981.75.

EXTRA GRADING—$2,200. San Francisco. Engineer, Construction Quartermaster, Fort Mason. Owners, United States Government. Contractors, Mahoney Bros., Hobart Bldg., S. F. Contract price, $2,200. Extra grading around twelve officers' quarters.

OAKLAND AND ALAMEDA COUNTY

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be received on July 6th for street improvements authorized under the following resolution: That a portion of Excelsior avenue be graded, curbed with concrete, guttered with concrete gutters 3 feet wide, paved with oil macadam and sidewalked with cement sidewalks.

HIGHWAY CONSTRUCTION — Cost as follows. Oakland, Cal. Engineer, County Surveyor, Oakland. Owners, Alameda County. Bids were opened on June 19th for the improvement of East 14th street, or the main county road from San Leandro to Hayward on the following propositions: (1) grading, (2) ditching, (3) concrete culverts, (4) 8-inch corrugated iron, (5) 10-inch corrugated iron, (6) 12-inch corrugated iron, (7) 18-inch corrugated iron, (8) 8x29-inch corrugated iron, (9) catch basins, (10) curb gutter, (11) cleaning ditch, (12a) Topeka pavement, (12b) bitulithic pavement, (12c) bituminous pavement, (12d) sheet asphalt, (12e) asphaltic macadam, (12f) alternate pavement. Following is a complete list of the bids:

Johnson-Shea Co., Central Bldg., Oakland, (1) $9,750, (2) $1,100, (3) $2,000, (4) $750, (5) $450, (6) $500, (7) $3,500, (8) $500, (9) $420, (10) $12,600, (11) $600, (12a) $63,600, (12b) $76,850, (12c) $——, (12d) $75,525, (12e) $67,-575, (12f) $——.

Paul & Caldwell, 2926 East 19th street, Oakland, (1) $6,500, (2) $800, (3) $2,130, (4) $600, (5) $264, (6) $406, (7) $2,690, (8) $306, (9) $180, (10) $10,-185, (11) $240, (12a) $71,232, (12b) $71,-232.

Clark & Henery Construction Co., Ochsner Bldg., Sacramento, (1) $6,500 (2) $1,100, (3) $1,900, (4) $625, (5) $300, (6) $440, (7) $3,000, (8) $310, (9) $210, (10) $11,970, (11) $600, (12a) $72,610, (12b) $95,400, (12d) $83,210, (12e) $76,-850.

Ransome-Crummey Co., First National Bank Bldg., Oakland, (1) $9,750, (2) $800, (3) $5,000, (4) $625, (5) $280, (6) $340, (7) $2,600, (8) $500, (9) $540, (10) $13,650, (11) $240, (12a) $63,070, (12b) $79,500, (12c) $68,900, (12d) $75,-790, (12e) $64,660.

Eaton & Smith, 407 11th street, San Francisco, (1) $13,000, (2) $1,000, (3) $2,000, (4) $375, (5) $170, (6) $200, (7) $1,400, (8) $380, (9) $720, (10) $13,650, (11) $480, (12a) $82,415, (12f) $52,415.

Blanchard-Brown Co., 660 Market street, San Francisco, (1) $9,750, (2) $600, (3) $1,890, (4) $550, (5) $264, (6) $384, (7) $2,880, (8) $670, (9) $331.20, (10) $16,380, (11) $600, (12a) $70,649, (12b) $95,400, (12c) $84,450, (12d) $80,-083, (12e) $84,800.

City Street Improvement Co., 166 Geary street, San Francisco, (1) $6,-500, (2) $1,200, (3) $1,900, (4) $650 (5) $320, (6) $360, (7) $2,600, (8) $300, (9) $150, (10) $16,800, (11) $240, (12a) $71,550, (12d) $76,850, (12e) $84,800.

Raisch Improvement Co., 1008 Crocker Bldg., San Francisco, (1) $13,000, (2) $1,300, (3) $2,400, (4) $750, (5) $330, (6) $500, (7) $3,400, (8) $600, (9) $420, (10) $15,750, (11) $480, (12a) $84,111.

California Bitulithic Co., 1300 Franklin street, Oakland, (1) $5,850, (2) $1,-200, (3) $1,820, (4) $625, (5) $292, (6) $350, (7) $2,470, (8) $296, (9) $142.20, (10) $15,330, (11) $180, (12a) $66,780, (12b) $82,680, (12c) $84,730, (12d) $77,-380, (12e) $72,080.

P. Mathieson, (1) $9,750, (2) $800, (3) $1,500, (4) $350, (5) $160, (6) $180, (7) $1,260, (8) $300, (9) $240, (10) $12,-600, (11) $480, (12a) $66,250, (12e) $66,-250.

STREET IMPROVEMENT—Cost not stated. Oakland, Cal. Engineer, City Engineer, Oakland. Owners, City of Oakland. Bids will be opened on July 6th for street improvements authorized under the following resolutions: That 50th avenue from the southwest line of East 12th street to a straight line drawn from the intersection of the southeast line of 50th avenue with the southwest line of East 10th street to a point on the northwest line of 50th avenue distant thereon 50,114 feet northeast from the northeast line of East 10th street, be graded, curbed with redwood, concrete gutters 3 feet wide and paved with oil macadam; also corrugated iron and concrete culverts each having two branches.

That a sewer having an internal diameter of 8 inches be constructed along the center line and its production of 45th avenue from the center line of Clement street to a point 360 feet northeast therefrom, measured parallel to the northwest line of said 45th avenue; also a lamphole with a brick and cast iron top and Y branches having 5-inch openings, be constructed of vitrified sewer pipe.

That portions of 33rd avenue be graded, curbed with redwood, concrete gutters 3 feet wide, and paved with oil macadam; also a vitrified pipe conduit be constructed, brick storm water inlets with cast iron tops and a brick manhole with cast iron top.

FURNISHING ROCK—Cost not stated, San Leandro, Alameda Co., Cal. Engineer, City Engineer, San Leandro. Owners, City of San Leandro. At the last meeting of the Board of Trustees, bids for the furnishing and laying of screening and crushed rock on the streets of the town were received from E. B. & A. L. Stone Co., D. U. Toffelmier, Leona Heights Quarries and the Niles Sand, Gravel and Rock Co. A. H. Kupperud submitted a bid for supplying and laying street oil. Bids will be considered at the next meeting of the Board.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, Charles Briggs, 1654 7th street, Oakland. Location, east 108th avenue north of Voltaire. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel with some hardwood. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owners, United Home Builders, 1537 Broadway, Oakland. Location, north Bay View avenue east of Elliott. Will contain six rooms, bath and sleeping porch. Interior finish pine and white enamel. Some hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to bet done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Oakland, Cal. Architect, none. Owner, James McGuinness, 5615 East 17th street, Oakland. Location, west Beaumont north of East 28th street. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and tile or brick mantel. Bath room tile wainscot. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $3,500. Berkeley, Alameda Co. Cal. Architect, none. Owner, C. H. Byers, 2810 Fulton street, Berkeley. Location, south Stuart west of Benvenue. Will contain nine rooms, bath sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile and brick. Bath room tile. Automatic water heater. Exterior covered with rustic and shingles. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, William Walston, 5601 East 16th street, Oakland. Location,

north Wentworth avenue west of Fairfax. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect, none. Owner, E. H. Strang, 2801 23rd avenue, Oakland. Location, east 23rd avenue north of East 29th street. Will contain five rooms, bath and sleeping porch. Interior finish pine, redwood and white enamel. Hardwood floors. Open fire places and tile or brick mantels. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,500. Berkeley, Alameda Co., Cal. Architect, none. Owner, Arvid E Olson, 2129 Telegraph avenue, Oakland. Location, north Ward east of Mabel. Will contain six rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat and open fire places. Mantels tile or brick. Bath room tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, none. Owner, E. L. Higgins, 5250 Miles avenue, Oakland. Location, south Broadway opposite Belgrave Place. Will contain eight rooms, two baths and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors. Open fire places and furnace heat. Mantels tile and brick. Bath rooms tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame. $2,000. Oakland, Cal. Architect. none. Owner, Henry Abenfeld, 3005 King street, Berkeley. Location, west 66th avenue south of Arthur. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile or brick mantel. Bath room tile. Automatic water heater. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

APARTMENT HOUSE—3 story and base, frame, $15,000. Oakland, Cal. Architect, Chester H. Miller, First Trust Bldg., Oakland. Owner's name withheld. Location, Lake District. Will contain six high class apartments of four rooms each. Interior finish hardwood and white enamel throughout. Hardwood and tile floors. Steam heat and hot water system. Oil burning furnace. Bath rooms tile. Wall beds. Marble and tile wainscot. Exterior covered with cement plaster. Plans are nearly complete and figures will be called for shortly.

APARTMENT HOUSE—3 story and base, frame, $15,000. Berkeley, Alameda Co., Cal. Architects, Newsom & Newsom, 1748 Broadway, Oakland Owner's name withheld. Location, Hayes street near College avenue. Will contain twelve modern suites of two and three rooms. Interior finish pine, hardwood and white enamel. Hardwood floors. Bath rooms tile. Steam heat, oil burning equipment and hot water supply. Vacuum cleaning and wall beds. Bath rooms tile. Marble and tile wainscot in entrance lobby. Exterior covered with cement plaster. Plans being prepared.

SCHOOL—2 story and base, brick and concrete. Cost not stated. Alameda, Alameda Co., Cal. Architects, Cunningham & Politeo, First National Bank Bldg., S. F. Owners, City of Alameda. New bids will not be called for on the construction of the Lincoln School in Alameda until additional bonds can be voted. The building, a two-story brick and concrete building, has been out for figures three times and each time all bids have been rejected. The Board of Education at its last meeting went on record as against the policy of constructing less than the required eight rooms and an auditorium.

RESIDENCE — 2 story and base, frame, $4,000. Oakland, Cal. Architect, none. Owners, E. & A. Co., Syndicate Bldg., Oakland. Location, east Spruce south of Cleveland. Will contain seven rooms, bath and sleeping porch. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Furnace heat and open places. Mantels tile and brick. Bath rooms finished in tile. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 1 story and base, frame, $2,000. Oakland, Cal. Architect. none. Owner, I. A. Kellogg, 3404 Champion avenue, Oakland. Location, northeast Laguna avenue and Montana street. Will contain five rooms, bath and sleeping porch. Interior finish pine and white enamel. Hardwood floors in principal rooms. Open fire place and tile mantel. Automatic water heater. Tile bath. Exterior covered with cement plaster and rustic. Plans complete and work to be done by Day Labor.

HALL OF RECORDS ADDITION—1 and 2 story, brick and steel. Cost not stated. Oakland, Cal. Architect, Henry H. Meyers, Kohl Bldg., S. F. Owners. Alameda County. Location, Fifth and Broadway. Work will consist of an additional wing of the same construction and architecture as the present building. Plans are complete and figures being taken. Bids will be opened on August 7th at 10 a. m. The work will be segregated as follows: Department No. 1—Excavating, brick work, stone work, concrete work, carpenter work, mill work, glass, stairs, steel fire doors, window guards, plastering, lathing, cementing, damp-proofing, felt and gravel roofing, sheet metal, skylights, hardware, painting and tinting.. Department No. 2—Plumbing, drains and gas fitting. Department No. 3—Electric work. Department No. 4—Marble work and tiling. Department No. 5—Heating. Department No. 6—Elevator work. Department No. 7—Well boring and casing. Plans can be secured from the County Clerk only.

SHIP BUILDING PLANT—1 and 2 story, steel and concrete. Cost not stated. Alameda, Alameda Co., Cal. Engineer, L. S. Rosenes, Merchants Exchange Bldg., S. F. Owners, Union Iron Works. Bids are now being taken for the construction of the first building, a plate shop, which will cover and area of 500 by 100 feet. This will have a complete steel frame and concrete floors and walls. A large brick and steel power plant will next be built and following this two frame and steel buildings of large dimentions. Further mention will be made of the work.

LODGE GATE FOR COUNTRY CLUB —2 story, stone. Cost not stated. Elmhurst, Alameda Co., Cal. Architect, Henry C. Smith, Humboldt Bank Bldg., S. F. Owners, Sequoyah Country Club. Will contain four rooms. Interiors finished in pine. Open fire place. Exterior faced with field stone. Plans complete and work to be done by Day Labor.

HOTEL—1 and 2 story and base, frame, $60,000. California. Architects Richardson & Burrell, Albany Bldg., Oakland. Owner's name withheld. Preliminary plans have been prepared for a large hotel of the resort type. The building will contain 150 rooms, office, lounging rooms, parlors, dining rooms and completely equipped kitchen. Exterior will be designed in the Mission style. Only preliminary plans have been prepared and the names of the interested persons and the exact location is withheld for the present.

Contracts Awarded.

POWER PLANT EQUIPMENT—$68,000. Berkeley, Alameda Co., Cal. Engineer's name not given. Owners, Regents of the University of California. Contractors, C. C. Moore & Co., Sheldon Bldg., S. F. Contract covers the mechanical equipment for the University power plant.

STREET PAVING—Cost not stated. Alameda, Alameda Co., Cal. Engineer, City Engineer, Alameda. Owners, City of Alameda. Contractors, Ransome-Crummey Co., First National Bank Bldg., Oakland. Contract covers the paving of 6th street from Lincoln to Pacific avenue. Contract price not stated.

SAN JOSE AND THE SANTA CLARA VALLEY

RESIDENCE — 2 story and base, frame, $20,000. Palo Alto, Santa Clara Co., Cal. Architect, Frederick H. Meyer, Bankers, Investment Bldg., S. F. Owner, S. W. Smith. Location, corner of Kellogg avenue and Bryant. Will

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Sacramento, Placerville, Nevada City, Reno
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contain fourteen rooms, several baths and sleeping porch. Separate garage. Interior finish pine, hardwoods and white enamel. Hardwood floors. Furnace heat and hot water circulating system. Bath rooms tile. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and carpentry work awarded to F. W. Fox, Palo Alto. Balance of the work to be done by Day Labor.

CAST IRON PIPE—Cost not stated. Redwood City, San Mateo Co., Cal. Engineer, City Engineer, Redwood City. Owners, Redwood City. At the last meeting of the City Trustees, Street Superintendent Dickey was given authority to purchase 420 feet of 4-inch cast iron water pipe to be used on El Camino Real road between Oak and Redwood avenues.

THEATRE AND STORES—2 story and base, reinforced concrete, $45,000. Burlingame, San Mateo Co., Cal. Architects, Edwards & Norberg, Bank Bldg., Burlingame. Owner, Mr. Gates. Will contain a large and modern motion picture theatre and several stores. Interior finish pine and hardwood with some ornamental plaster. Modern ventilating and electric work. Exterior faced with cement plaster. Patent store fronts and marble bases. Plans are being revised and new figures will be called for shortly.

RESIDENCE — 2 story and base, frame. Cost not stated. Woodside, San Mateo Co., Cal. Architects, Bakewell & Brown, 251 Kearny street, S. F. Owner, Mr. Avenali. Will contain twelve rooms, three baths and separate garage. Interior finish hardwood, pine and white enamel. Hardwood floors. Central heating system and open fire places. Automatic water heater. Bath rooms tile and equipped with showers. Mantels tile and brick. Exterior covered with cement plaster. Plans complete and figures being taken.

Contracts Awarded.

STREET IMPROVEMENTS — $31,294.70. South San Francisco, San Mateo Co., Cal. Engineer, Town Engineer, South San Francisco. Owners, Town of South San Francisco. Contractors, Petersen & Grier, 62 Post street, S. F. Contract price, $31,294.70.

BRIDGE — Concrete. Cost as follows. San Jose, Santa Clara Co., Cal. Engineer, County Surveyor, San Jose. Owners, Santa Clara County. McKeen road, reinforced concrete culvert. Wm. Martin awarded contract for $1,820. Foothill avenue at Echo ranch, a reinforced concrete culvert. A Peart awarded contract for $740. Columbet avenue, a reinforced concrete bridge. Wilson & Christianson, San Francisco, awarded contract for $2,109. Foothill avenue north of Echo ranch, a reinforced concrete culvert. A Peart awarded contract for $450.

HIGHWAY CONSTRUCTION — Cost not stated. Salinas, Monterey Co., Cal. Engineer, County Surveyor, Salinas. Owners, Monterey County. Bids will be opened on July 5th at 2 p. m. for the construction of a new road (No. 269) in Tularcitos Road District, Monterey County.

JAIL EQUIPMENT—Cost not stated. Redwood City, San Mateo Co., Cal. Architect, Will H. Toepke, 46 Kearny street, S. F. Owners, San Mateo County. Bids will be received on July 10th at 10 a. m. for the special jail equipment to be installed in the new County Jail. All bids received at the last meeting of the Board of Supervisors for this work have been rejected. These figures ran in excess of $22,000. Plans can be secured from the architect.

MARIN, CONTRA COSTA AND SONOMA COUNTIES

HIGHWAY IMPROVEMENT — Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on July 25th at 10 a. m. for the improvement of a part of the roadway of the county road leading from Napa to Napa Soda Springs, at a point about one and five-eights miles north of the "Little Trancas bridge."

BRIDGE—Masonry and reinforced concrete. Cost not stated. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. Bids will be opened on July 25th at 10 a. m. for the construction of a masonry and reinforced concrete highway bridge across Conn Creek, at a point near the Wm. Dinning place.

CONCRETE RUNWAY—$40,000. Petadluma, Sonoma Co., Cal. Engineer, City Engineer, Petaluma. Owners, City of Petaluma. At the last meeting of the City Council, City Engineer A. A. Horwege presented plans and estimates for an open concrete runway, 14 feet wide at bottom, 16 feet on top and 7 feet deep for the elimination of Thompson Creek.

BRIDGES—Stone and concrete. Cost as follows. Napa, Napa Co., Cal. Engineer, County Surveyor, Napa. Owners, Napa County. The contract for the construction of three concrete and stone bridges, two to be constructed in Capell Valley and one to be built at Coomsville, were awarded Tuesday to C. H. Gildersleeve of Napa. The two to be built in Capell Valley will cost $1,894 and the bridge at Coomsville will cost $530.

STREET PAVING—$52,568.87. Vallejo, Solano Co., Cal. Engineer, City Engineer, Vallejo. Owners, City of Vallejo. The Worswick Construction Co., Union National Bank Bldg., Fresno, Cal., was the lowest bidder for the street improvement job in the northwest district of Vallejo. The bid was $52,492.92. Other bids were: Johnson-Shea & Co., $58,568.87; Clark & Henery Construction Co., $65,140.12; Federal Construction Co., $55,100.75; Ransome-Crummey Co., $58,718.47.

RESIDENCE — 1 story and base, frame, $1,500. Richmond, Contra Costa Co., Cal. Architect, none. Owner, Thors Hrones, 110 Maple avenue, Richmond. Location, Maple avenue near Cutting. Will contain five rooms and bath. Interior finish pine and redwood. Some hardwood floors. Open fire place and tile mantel. Exterior covered with rustic and cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame, $7,500. Colusa, Colusa Co., Cal. Architect, W. H. Ratcliff, Jr., First National Bank Bldg., Berkeley. Owner, J. L. Langdon. Will contain nine rooms, three baths and sleeping porch. Separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors. Furnace heat, open fire places and hot water circulating system. Bath rooms finished in tile. Mantels tile or brick. Shower bath. Exterior covered with cement plaster. Plans being prepared.

GAS PLANT—1 and 2 story, reinforced concrete and frame, $35,000. Sausalito, Marin Co., Cal. Engineer, J. A. Fish, Mutual Bank Bldg., S. F. Owners, Town of Sausalito. Preliminary plans are being prepared for the construction of a modern gas plant, which will be controlled by the municipal authorities. Further mention will be made of the work when contracts are signed.

SCHOOL HEATING AND VENTILATING—Cost not stated. Richmond, Contra Costa Co., Cal. Architect, J. B. Ogborn, 611 Macdonald avenue, Richmond. Owners, City of Richmond. Bids will be received up to July 1st at 3:30 p. m. for furnishing and installing a steam heating system and modern ventilating system in the Lincoln School. Heating and ventilating plans by Engineers Leland & Haley, Holbrook Bldg., S. F.

STORES AND ROOMS—2 story and base, brick, $6,000. Richmond, Contra Costa Co., Cal. Architect, J. B. Ogborn, 464 13th street, Richmond. Owner, J. W. Martin. Location, 3rd and Macdonald avenue. Will contain store, saloon and barber shop. Upper floor will contain twelve rooms. Interior finish pine and redwood. Patent store fronts and marble bases. Exterior faced with pressed brick. Plans complete and figures being taken.

Contracts Awarded.

STREET WORK—$4,400. Richmond, Contra Costa Co., Cal. Engineer, City Engineer, Richmond. Owners, City of Richmond. Contractors, Moffitt & Mead, Monadnock Bldg., S. F. Contract price, $4,400.

DISPOSAL SYSTEM EXTENSION—Cost not stated. Healdsburg, Sonoma Co., Cal. Engineer, City Engineer, Healdsburg. Owners, City of Healdsburg. Bids will be opened on July 11th at 8 p. m. for the construction of an extension of the present sewerage disposal system.

HALL OF RECORDS—2 story and base, reinforced concrete, $23,240. Napa, Napa Co., Cal. Architect, W. H. Corlett, Napa. Owners, Napa County. Contractor, E. W. Doughty, Napa. Contract price, $23,240.

FRESNO, MODESTO, STANISLAUS AND CENTRAL CALIFORNIA

FURNISHING CEMENT—Cost not stated. Fresno, Fresno Co., Cal. Engineer, County Surveyor, Fresno. Owners, Fresno County. Bids will be opened on July 8th at 11 a. m. for furnishing the County of Fresno with 2,205 barrels of Portland cement f. o. b. Selma, Cal., in the original packages with the brand and name of the manufacturer plainly marked thereon at the time of delivery. Said Portland cement shall conform to the standard specifications for Portland cement adopted by the American Society for Testing Materials, August 16th, 1909, and amendments thereto, supplemental and amendatory thereof. If cement is delivered in cloth bags, all such bags to be returned to bidder f. o. b. Selma, Cal.

HIGHWAY IMPROVEMENT — Cost not stated. Modesto, Stanislaus Co., Cal. Engineer, County Surveyor, Modesto. Owners, Stanislaus County. Bids will be opened on July 11th at 2 p. m. for applying the wearing surface on the Newman and McHenry roads.

SCHOOLS—2, 1 story, frame, $3,500 each. Fresno, Fresno Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Navelencia Schoo District and Lenthel School District. Both buildings designed for district schools and will contain but one class room. Stoves for heating. Exteriors rustic. Plans nearly complete and figures to be called for shortly.

SCHOOL—1 story and base. Class C construction, $30,000. Wasco, Kern Co., Cal. Architect, Ernest J. Kump, Rowell Bldg., Fresno. Owners, Wasco School District. All bids opened by the Directors of the Wasco Union High School District for the erection of the proposed one-story, Class C High School building were rejected. Blds were received from three Fresno contractors and ranged from $40,000 to $60,000. It is probable that the plans will be revised and new plans ordered.

BRICK FACTORY—1 story, frame. Cost not stated. Modesto, Stanislaus Co., Cal. Architect, none. Owners, Union Brick and Tile Co. The main building will cover an area of 100 by 100 feet. Special machinery will be installed. W. M. Anderson is the promotor and directors of the corporation are D. W. Morris, N. E. Leek, W. A. Downer, S. J. West and W. M. Anderson.

SACRAMENTO, STOCKTON AND NORTHERN CALIFORNIA

BRIDGE—Steel and concrete. Cost as follows. San Andreas, Calaveras Co., Cal. Engineer, County Surveyor, San Andreas. Owners, Calaveras County. The following bids were received by the Board of Supervisors at their last meeting for the construction of the bridge over the Middle Fork of Mokelumne River near the town of West Point: Jenkins & Wells, 3530 Y street, Sacramento, for wrecking old bridge, $65; to construct the bridge, complete, with approach fill, $5,133. Extra reinforced concrete in place, $30 per cubic yard. Extra excavation in rock, $6 per cubic yard. Extra excavation other than rock, $2 per cubic yard. Placing of earth fill in the approaches, 75c per cubic yard. If necessary to decrease the amount of concrete as shown in plans and specifications deduct $21 per cubic yard.

Gildersleeve Contracting Co., building bridge according to plans and specifications, $5,675, not including fill. Extra concrete below water, $25 per cubic yard. Extra concrete above water, $19 per cubic yard. Extra excavation of dirt above water $1 per cubic yard. Extra excavation of dirt below water, $4 per cubic yard. Extra excavation rock below water, $6 per cubic yard. Extra excavation rock above water, $4 per cubic yard. Extra steel placed 8c per pound. Should it be necessary to deduct concrete, deduct $16 per cubic yard.

SEWERS—Cost as follows. Stockton, San Joaquin Co., Cal. Engineer, City Engineer, Stockton. Owners, City of Stockton. Five bids were received by the City Council for the construction of the sanitary main sewers along Fair Oaks avenue from Marsh to East street, East street to Oak, Oak to West, West to Smith's Canal, with a branch on Union from Acacia to Oak street. City Engineer Compton's estimate amounted to $48,577.41. Following is a list of the bids: Tibbitts-Pacific Co., S. F., $61,290.11. Chambers & Heafy, Oakland, $53,899.07; Michael Murphy, Berkeley, $62,581.89; Frank C. McIntire, Stockton, $49,150.77; Frank S. Ostrander, S. F., $59,120.98. Contract was awarded to Frank C. McIntire, 215 East Weber street, Stockton, Cal.

Bids for the construction of the storm sewers along Scotts avenue, Fisher street and John street in the Fisher addition, were received as follows: J. J. Calisch Co., $1,74-.49; Chambers & Heafy, Oakland, $1,504.32; Fred Leffler, S. F., $1,650.05; Frank McIntire, Stockton, $1,460.00;; W. S. Gause, Oakland, $1,410.80; W. F. Edwards, Oakland, $1,491.58. Engineer's estimate, $1,762.75. Contract awarded to W. S. Gause, 15 Park Way, Oakland, Cal.

BRIDGE—Steel and concrete. Cost not stated. Oroville, Butte Co., Cal. Engineer, County Surveyor, Oroville. Owners, Butte County. Bids will be opened on July 13th at 2 p. m. for the construction of a bridge across Lindo channel on Nord avenue, one mile from Chico.

SEWER PIPE — Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. Only one bid was received by the City Council for furnishing 500 feet of 8-inch sewer pipe for Myrtle avenue. The bid was rejected and the Sewer Committee was authorized to purchase the pipe in the open market.

WATER PIPE—Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids will be opened on July 5th at 8 p. m. for furnishing f. o. b. steamer at San Francisco on or before September 15, 1916, 10,000 feet of 2-inch black pipe and 3,000 feet ¾-inch galvanized pipe, standard weight and random lengths, for the Eureka Water Department.

RESIDENCE — 1 story and base, frame, $2,000. Sacramento, Cal. Architect, none. Owner, H. L. Mee, 2116 13th street, Sacramento. Location, 2180 13th street. Will contain five rooms, bath and sleeping porch. Interior finish pine and redwood with some white enamel. Hardwood floors. Open fire place and tile mantel. Automatic water heater. Exterior covered with cement plaster. Plans complete and work to be done by Day Labor.

STREET IMPROVEMENTS—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Bids will be opened on July 6th for street improvements authorized under the following resolutions: That Miller avenue in Wright & Kimbrough Tracts Nos. 27 and 30 be improved. Also that the alleys on the north, east and west sides of Wright & Kimbrough No. 27 be improved by constructing 8 and 10-inch, vitrified, ironstone pipe sewers, 7 concrete manholes complete, 2 6-inch flusher branches complete, and 110 6-inch Y branches with covers.

WOOD STAVE PIPE—Cost not stated. Eureka, Humboldt Co., Cal. Engineer, City Engineer, Eureka. Owners, City of Eureka. Bids will be received up to July 5th at 5 p. m. for furnishing f. o. b. dock or cars, Eureka, Cal., on or before September 1, 1916, 7,350 feet 8-inch wood stave redwood pipe, machine-banded in factory or on job, for the city of Eureka water works.

GARAGE—2 story and base. Class C construction, $32,000. Stockton, San Joaquin Co., Cal. Architects, O'Brien Bros., 240 Montgomery street, S. F. Owner's name witbheld. Designed for a commercial garage and will cover a ground area of 50 by 165 feet. Concrete floor. Metal window sash and frames and fireproof doors. Special gasoline tanks and air compressor. Exterior faced with pressed brick. Plans being prepared.

HOSPITAL—1 and 2 story, frame. Cost as follows. Hoopa Valley, Humboldt Co., Cal. Architect, U. S. Commissioner of Indian Affairs, Washington, D. C. Owners, United States Government. The following bids were received by the Commissioner of Indian Affairs at Washington, D. C., for the construction of a frame hospital building at the Hoopa Valley Indian School: Mercer-Fraser Co., Eureka, Cal., $14,-000; time not stated. W. D. Lovell, Minneapolis, Minn, $15,700; time 180 days. Poland & Robinson, Eureka, Cal., $13,675; time 180 days. Jas. E McDonald, Oakland, Cal., $13,337; time 160 days. Thomas Engelhart, Eureka, Cal., $12,700; time 180 days. Elsemore & Jacobs, Eureka, Cal., $14,333; time 200 days. No contract has been awarded.

PHYSICIANS' COTTAGES—2, 1 story, frame, $6,636. Stockton, San Joaquin Co., Cal. Architect, State Architect George B. McDougall, Sacramento. Owners, State of California. R. S. K. McMillen, 153A Duncan street, S. F., presented the low figure for this work and will be awarded the contract. A complete list of the bids received will be found under the heading of Sacramento, Stockton and Northern California in this issue.

SCHOOL REPAIRS—Cost not stated. Red Bluff, Tehama Co., Cal. Architect, none. Owners, City of Red Bluff. Blds will be received on July 5th for painting and repairs to the two school buildings in Red Bluff. Plans can be secured from E. E. Stevens, Clerk of the Board of Education, Red Bluff.

LIBRARY—1 story, frame and plaster. Cost not stated. Alturas, Modoc Co., Cal Architect's name not given. Owners, Modoc County. Plans have been completed for the Carnegie Public Library and figures are now being taken. There will be one reading room, stack room and office. Interior finish pine and redwood. Maple floor. Stove for heating. Exterior covered with cement plaster. Bids will be opened on July 7th. Plans can be secured from the County Clerk.

SCHOOL ALTERATIONS—Cost not stated. Alturas, Modoc Co., Cal. Architect, none. Owners, Alturas Grammar School District. Work will consist of constructing a cement floor in the basement and building a timber porch. Other minor work is also included. Plans complete and figures to be opened on July 5th at 2 p. m. Plans from Superintendent of Schools, Modoc.

Contracts Awarded.

STREET IMPROVEMENT—Cost not stated. Sacramento, Cal. Engineer, City Engineer, Sacramento. Owners, City of Sacramento. Contracts for street improvements have been awarded under the following resolutions: That 3rd street, from the south line of Q street to the north line of T street, be improved by removing and disposing of all surplus and refuse materials, grading the roadway and construct thereon an asphaltic macadam

pavement, consisting of a hydraulic concrete foundation 4 inches thick at the gutter and running to 5 inches, and an asphaltic wearing surface 1½ inches thick. Awarded to the McGillivray Construction Co., 1007 7th street, Sacramento.

That 3rd street, from the south line of T street to the north line of the alley between X and Y streets, be improved by removing and disposing of all surplus and refuse material, grading the roadway and constructing an asphaltic concrete pavement, consisting of a hydraulic concrete foundation 4 inches thick, an asphaltic cement flush coat, and an asphaltic wearing surface 1½ inches thick. Awarded to the McGillivray Construction Co., 1007 7th street, Sacramento.

STREET PAVING—Cost not stated. Dunsmuir, Siskiyou Co., Cal. Engineer, City Engineer, Dunsmuir. Owners, City of Dunsmuir. Contractor, T. M. Burns, 2207 N street, Sacramento. Contract price not stated.

Receive Figures For State Work.

R. S. K. McMillen Presents Low Figure For Two Cottages for State Hospital at Stockton.

(By Special Wire.)

SACRAMENTO, CAL., June 19, 1916—Eleven sets of figures were opened by the State Board of Control today for the construction of two frame physicians' cottages to be erected at the Stockton State Hospital. R. S. K. McMillen, 153-A Duncan street, San Francisco, presented the low bid and will be awarded the contract. Following is a complete list of the bids received:

Cottages at Stockton Hospital.

R. S. K. McMillen	$6636
Jas. Furlong	7440
Frank Robinson	7448
Geo. W. Boxton & Son	7460
J. C. Nielsen	7475
Fred Warden	7637
Louis Cereghino & Son	7780
Butterfield & Barker	7940
McLeran & Peterson	8000
Anderson & Ringrose	8960
H. A. Klyce	9366

LOS ANGELES AND SOUTHERN CALIFORNIA

BRIDGES—Reinforced concrete and steel. Cost not stated. Ventura, Ventura Co., Cal. Engineer, County Surveyor, Ventura. Owners, Ventura County. Bids will be opened on July 7th for the erection of the La Crosse bridge across the San Antonio Creek, about one-half mile north of La Crosse siding, and for the Casitas bridge, about one-half mile north of Canet siding, Ventura County. The work consists of the following: La Cross bridge—Erection of one combination steel and timber span, 150 feet long, and 96 feet of timber floor on concrete pile bents. Casitas bridge—Erection of one combination steel and timber span 200 feet long. All structural steel, cast iron, bolts and washers will be furnished by Ventura County. All substructure work is being done under separate contract. Plans and specifications on file in the office of the Clerk of the Board of Supervisors and in the County Surveyor's office.

RESIDENCE — 2 story and base, frame, $8,000. Santa Barbara, Santa Barbara Co., Cal. Architect, John Hudson Thomas, First National Bank Bldg., Berkeley. Owner, W. F. Kelly. Will contain eight rooms, three baths and sleeping porch. Interior finish uine, hardwood and white enamel. Hardwood floors throughout. Furnace heat, open fire places and hot water circulating system. Mantels brick. Bath rooms finished in tile and equipped with showers. Exterior covered with cecovered with cement plaster. Plans complete and work to be done by Day Labor.

RESIDENCE — 2 story and base, frame. Cost not stated. Los Angeles, Cal. Architects, Morgan, Walls & Morgan, Van Nuys Bldg., L. A. Owner, A. A. Normandin. Location, Wellington Square. Will contain ten rooms, three baths and separate garage. Interior finish pine, hardwood and white enamel. Hardwood floors throughout. Bath rooms finished in tile and equipped with showers. Furnace heat hot water circulating system and open fire places. Mantels tile and marble. Exterior covered with cement plaster. Plans complete and figures being taken.

RESIDENCE — 2 story and base, brick veneer. Cost not stated. Arcadia, Los Angeles Co., Cal. Architect, Frederick J. Soper, Story Bldg., L. A. Owner, Dan D. Simms. Will contain a large number of rooms, three baths and sleeping porches. Interior finish cedar and white enamel. Hardwood floors. Furnace heat and open fire places. Hot water circulating system. Bath rooms tile and equipped with showers. Exterior covered with brick veneer. Roof shingles. Plans complete and subcontracts to be awarded.

SERVICE BUILDING—5 story and base. Class A construction, $85,000. Los Angeles, Cal. Engineer, John Schulz, L. A Owners, Los Angeles County. Location, County Hospital grounds, Mission road. Will cover an area of 73 by 110 feet, and will contain offices and administration departments. Interior finish pine and hardwood. Steam heat, elevator service and vacuum cleaning. Exterior faced with pressed brick. Plans complete and figures to be opened on July 24th. General contract will include all work except plumbing, heating, vacuum cleaning, elevators and electric work. Plans on file at the Clerk of the Board of Supervisors, Hall of Records.

SCHOOL—1 and 2 story, hollow tile, $40,000. Los Angeles, Cal. Architects, Milwaukee Building Co., Wright and Callender Bldg., L. A. Owners, Westlake School for Girls. Location, Westmoreland avenue. Designed for a private school for girls. Will contain office, class rooms, an auditorium and gymnasium. Interior finish pine and hardwood with maple floors. Steam heat, oil burning furnace and vacuum cleaning. Exterior faced with cement plaster. Plans being prepared.

Contracts Awarded.

RESIDENCE — 2 story and base, hollow tile, $24,288. Pasadena, Los Angeles Co., Cal. Architects, Allison & Allison, Hibernian Bldg., L. A. Owner, Mrs. J. C. Daniels. Contractor, James P. Dawson, 763 Oakland street, Pasadena. Contract price, $24,288.

WAREHOUSE—1 and 2 story and base. Class A construction, $23,000. Vernon, Los Angeles Co., Cal. Architect, Henry E. Bean, Central Bldg., L. A. Owners, California Food Products Co. Contractors, Leonardt & Peck, H. W. Hellman Bldg., L. A. Contract price, $23,000.

STORES AND LOFTS—3 story and base. Class A construction, $50,000. Los Angeles, Cal. Architect, John Parkinson, Security Bldg., L. A. Owners, Firestone Rubber Co. Contractors, F. O. Engstrom Co., 5th and Seaton streets, L. A. Contract price, $50,000.

PORTLAND AND OREGON

SCHOOL—2 story and base, brick and concrete, $100,000. Baker City, Ore. Architects, Lawrence & Holford, Chamber of Commerce Bldg., Portland. Owners, Baker City. Contractor, G. H. Waale, Baker City, general construction, $84,567. Fish & Bowen, Baker City, heating and ventilating and plumbing, Phil Brownell, Baker City, Electric work.

SEATTLE AND WASHINGTON

RECLAMATION WORK—$61,000. Seattle, Wash. Engineers, United States Reclamation Service. Owners, United States Government. Bids opened by the U. S. Reclamation Service for the construction of irrigation improvements at Grand View, Wash., show Hans Pederson, Alaska Bldg., Seattle, low bidder at $61,000. Wood & De Camp of Spokane are second low bidders at $72,000. An award will be made shortly.

Contracts Awarded.

HOSPITAL—3 story and base, brick, $60,000. Seattle, Wash. Architect, D. P. Eastman, Northern Bank Bldg., Seattle. Owners, Swedish Hospital Association. Contractors, Hendrickson & Co., Globe Bldg., Seattle. Contract price, $60,000.

FOR DOWN-AND-OUT WOMEN.

Work is soon to commence on the Mary Dawes Hotel for Women, in Chicago, which is to be erected by Charles G. Dawes, president of the Central Trust Company as a tribute to his mother. The price of rooms will range from ten cents a night upward. There will be no questions asked of guests—the only requirement being that they conduct themselves properly while on the premises. The hotel will have 250 rooms. Each floor above the first will have well-equipped sewing, reading and bath rooms. It will be conducted along the same lines as the Rufus F. Dawes Hotel for Men.

NEW TAN OAK INDUSTRY.

MARSHFIELD, Ore.—A new lumber-industry is to be developed on the Rogue River in Curry County, which will result in tan oak being put on the market. Roderick Macleay of Portland, president of the Macleay Estate Co., which owns 17,000 acres of land along the Rogue River, is making arrangements to manufacture oak lumber. On the company's land there is a large amount of what is known as tan oak. It is the same tree from which tan bark is taken and which has been an industry of the locality for years past.

Building Contracts Let and Recorded

Completion Notices, Liens Filed and Releases.

Building Contracts Awarded

SAN FRANCISCO COUNTY.

No.	Owner	Contractor	Amt.
1883	Bender	Flowers	750
1884	Worthington	Pendry	1900
1885	Anthony	Oberfeld	800
1886	Heinkel	Beha	450
1887	Brill	Robinett	400
1888	Tieburg	Legault	1000
1889	Wanderer	Wanderer	800
1890	Moriarty	Chase	1800
1891	Sylvia	Perry	3500
1892	Graeter	Hansen	2500
1893	Corbusier	MacDonald	1750
1894	Schiaffino	Canepa	7250
1895	Anderson	Parry	1600
1896	Sudden	Day	2918
1897	Ghirardelli	Van Emon	1550
1898	Sachs	Collman	26641
1899	City & Co of S F	O'Mara	3643
1900	Same	Central	1297
1901	Same	Roberts	640
1902	Same	Scott	3960
1903	Same	W'n Iron	22763
1904	Same	Scott	6940
1905	Same	Lettich	297
1906	Same	Zelinsky	28680
1907	Same	Ickkelheimer	985
1908	Bartlett	Binet	4050
1909	Larkin	Brumfield	800
1910	Meyer	Pasqualetti	875
1911	Wilkins	Wilkins	400
1912	Francisca	Forderer	400
1913	Damico	Jossa	600
1914	Sturaza	Starm	425
1915	Nieto	Healing	400
1916	Musicians'	Alter	500
1917	Chambers	Novelty	400
1918	Same	Same	400
1919	Harrison	Callaghan	500
1920	Hill	Irvine	1200
1921	Bjorkman	Halmgren	1850
1922	Laib	Peterson	5250
1923	Schoenduby	Owner	400
1924	Sorbe	Coffey	650
1925	Owens	Owens	400
1926	Hip Seen	Cal Constr	700
1927	Edwards	Edwards	750
1928	Bender	Nagel	1000
1929	Tiewll	Segurson	600
1930	U S Garage	Novelty	400
1931	Anderson	Parry	1600
1932	Statham	Statham	400
1933	Fallon	Vane	800
1934	Morgan	Morgan	400
1935	Smith	Smith	500
1936	Loschiavo	Higginson	14000
1937	Maile	Hinson	11000
1938	Allec	Looney	2432
1939	Hladik	Carson	14600
1940	Mastasio	Amoroso	6600
1941	Remedial Loan	Petersen	9480

ENCAVATION, ETC.
(1881) W ALABAMA 290 S 25th S 25x W 100. Excavation, concrete, carpenter, plumbing, electric wiring, fixtures, tinning, painting, glass and marble work for building.
Owner.....Frank E. Kummer, 1342 Alabama, San Francisco.
Architect ...None.
Contractor..J. H. Baker.
Filed June 15, '16. Dated June 15, '16.
Work on building begun.....$100
Enclosed 175
Completed and accepted..... 175
Usual 35 days..... 150
TOTAL COST, $600
Bond, none. Limit, 30 days. Forfeit, plans and specifications, none.

ADDITION
(1883) NO. 806 HALLOWAY. Add to dwelling.
Owner.....E. W. and A. M. Bender, 2231 O'Farrell, S. F.
Architect ...None.
Contractor..Grant Flowers, — 25th Ave., Richmond.
COST, $750

FRAME DWELLING
(1884) E SAN JOSE AVE 310 S Santa Ynez. One and one-half-story and basement frame dwelling.
Owner.....Dee Worthington, 2025 San Jose Ave., San Francisco.
Architect ...None.
Contractor..A. F. Pendry, 239 Bartlett, San Francisco.
COST, $1900

ALTERATIONS
(1885) N OAK 137-2 E Gough. Concrete floor, masonry foundations, etc.
Owner.....Carrie A. Anthony, 610 Humboldt Bank Bldg., San Francisco.
Architect ...None.
Contractor..Chas. Oberfeld, 127 2nd Ave., San Francisco.
COST, $800

REPAIRS
(1886) NO. 619 FOURTH AVE. Repair fire damage.
Owner.....T. F. Heinkel, Premises.
Architect ...None.
Contractor..Chas. Beha, 682 4th Ave., San Francisco.
COST, $450

ALTERATIONS
(1887) NO. 728 MARKET. Alter store front.
Owner.....W. Brill, 43 Belden Place, San Francisco.
Architect ...None.
Contractor..Thos. Robinett, 272 Market, San Francisco.
COST, $400

SHELVES, ETC.
(1888) NO. 841 MARKET. Erect shelves and balcony.
Owner.....Tieburg Bros., Premises.
Architect ...None.
Contractor..Alfred Legault, 355 Monadnock Bldg., S. F.
COST, $1000

FRAME DWELLING
(1889) NO. 358 PARK. One-story and basement frame dwelling.
Owner.....Mrs. E. Wanderer, Prem.
Architect ...None.
Day's work. COST, $800

FRAME DWELLING
(1890) W BRIGHTON 335 S Ocean. One-story and basement frame dwlg.
Owner.....John and Grace Moriarty, 140 Brighton Ave., S. F.
Architect ...A. W. Richardson, 937 Church, San Francisco.
Contractor..John G. Chase Jr., 463 31st Ave., San Francisco.
COST, $1800

FRAME FLATS
(1891) W TWENTY-THIRD AVE 75 S Anza. Two-story and basement frame (2) flats.
Owner.....A. M. Sylvia, 371 30th Ave., San Francisco.
Architect ...None.
Contractor..Fred K. Perry, 2123 Clement, San Francisco.
COST, $3500

ALTERATIONS
(1892) NOS. 3135-37 PACIFIC Ave. General repairs and alterations for dwellings.
Owner.....L. D. Graeter, Arcata, Humboldt County, Cal.
Architect ...E. M. Frasier.
Contractor..F. L. Hansen, 709 Mission, San Francisco.
COST, $2500

ALTERATIONS
(1893) W POLK 100 S Sacramento. Cement plaster exterior, etc., for theatre.
Owner.....F. A. Corbusier, 310 Sansome, San Francisco.
Architect ...None.
Contractor..MacDonald & Kahn, 907 Rialto Bldg., S. F.
COST, $1750

FRAME FLATS
(1894) S GREEN 175 E Pierce E 25x S 109. All work for two-story and basement frame flats.
Owner.....G. B. Schiaffino.
Architect ...Chas. Fantoni, 916 Kearny, San Francisco.
Contractor..G. Canepa and Luigi Caramella.
Filed June 19, '16. Dated June 15, '16.
Inclosed and roofed.....$1872.50
Brown coated 1812.50
Completed and accepted..... 1812.50
Usual 35 days..... 1812.50
TOTAL COST, $7250.00
Bond, $3625. Sureties, Louis Arata and Carlo Bernero. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

FRAME STORE
(1895) LOT 10 BLK 6218 Reis Tract. All work for one-story frame store.
Owner.....M. Anderson.
Architect ...None.
Contractor..T. H. Parry, 222 Raymond Ave., San Francisco.
Filed June 19, '16. Dated June 15, '16.
Frame up $500
Brown coated 400
Completed and accepted..... 350
Usual 35 days..... 350
TOTAL COST, $1600
Bond, $800. Sureties, W. D. Stephenson and H. P. Coleman. Limit, forfeit, none. Plans and specifications filed.

ELECTRIC FIXTURES
(1896) SW LOCUST AND WASHINGTON — 45 S 100 E 34 N 100. Electric fixtures for building.
Owner.....Margaret E. Sudden, 62 Jordan Ave., S. F.
Architect ...G. A. Applegarth, Claus Spreckels Bldg., S. F.
Contractor..Thomas Day Co., 725 Mission, San Francisco.
Filed June 19, '16. Dated June 8, '16.
On 1st of each month..... 75%

Usual 35 days..... 25%
TOTAL COST, $2918
Bond, limit, forfeit, none. Specifications only filed.

ELEVATOR
(1897) NW NORTH POINT & LARKIN All work for 1 full automatic freight and passenger elevator.
Owner.....D. Ghirardelli Co., 941 North Point, S. F.
Architect ...Wm. Mooser, Nevada Bank Bldg., San Francisco.
Contractor..Van Emon Elevator Co., 54 Natoma, San Francisco.
Filed June 19, '16. Dated June 1, '16.
On delivery and setting in place of engine ..... ½
Completed ..... ¼
Usual 35 days..... 25%
TOTAL COST, $1650
Bond, $825. Surety, U. S. Fidelity & Guaranty Co. Limit, forfeit, plans and specifications, none.

CLASS "C" LOFT BUILDING
(1898) E SANSOME 139-2¼ S California S 46-7 m or l by E 137-6. All work for two-story Class "C" loft building.
Owner.....Martin Sachs Co., Mills Bldg., S. F.
Engineer ...Heller & Wilson, 57 Post, San Francisco.
Contractor..Collman & Duncan, Sharon Bldg., San Francisco.
Filed June 19, '16. Dated June 19, '16.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, $26,641
Bond, $13,320. Surety, Aetna Accident & Liability Co. Limit, 100 days. Forfeit, $21. Plans and specifications filed.

PLUMBING, ENGINE HOUSE
(1899) MINT AVE SW FIFTH. Plumbing for Engine House No. 17.
Plumbing for Engine House No. 17.
Owner.....City & County of San Francisco.
Architect ...Ward & Blohme, Alaska Commercial Bldg., S. F.
Contractor..J. E. O'Mara, 449 Minna, San Francisco.
COST, $3643

(1900) ELECTRIC WORK ON ABOVE.
Contractor..Central Electric Co., 175 Jessie, San Francisco.
COST, $1297

(1901) LIGHTING FIXTURES ON above.
Contractor..Roberts Mfg. Co., 663 Mission, San Francisco.
COST, $640

HEATING, ETC.
(1902) SW LARKIN AND PINE. Heating and ventilating for Redding School.
Owner.....City & County of San Francisco.
Architect ...Fred'k. H. Meyers, Bankers' Invst. Bldg., S. F.
Contractor..Scott Co., 243 Minna, S. F.
COST, $3960

STRUCTURA9L STEEL WORK
(1903) TWENTIETH, bet. Texas and Missouri. Structural steel for two-story and basement Class "C" school to be known as the Daniel Webster.
Owner.....City & County of San Francisco.
Architect ...John Reid Jr., 1 Montgomery, San Francisco.
Contractor..Western Iron Works, 141 Beale, San Francisco.
COS, $22,763

(1904) HEATING AND VENTILATING on above.
Contractor..Scott Co., 243 Minna, S. F.
COST, $6940

(1905) PLUMBING ON ABOVE.
Contractor..A. Lettich, 365 Fell, S. F.
COST, $6297

SCHOOL
(1906) FOLSOM ST., bet. Banks and Tompkins. Construction of one and one-half-story frame and plaster school known as the Paul Revere.
Owner.....City & County of San Francisco.
Architect ...City Department of Architecture.
Contractor..M. G. Zelinsky, Monadnock Bldg., San Francisco.
COST, $28,680

LIGHTING FIXTURES
(1907) POTRERO AVE, bet. 21st nd 23rd. Lighting fixtures for Pathological building.
Owner.....City & county of San Francisco.
Architect ...August Headman, Call Bldg., San Francisco.
Contractor..Ickelheimer Bros., 441 Sutter, San Francisco.
COST, $985

FRAME FLATS
(1908) E TENTH AVE 100 S Geary. All work except electric fixtures for two-story frame flats.
Owner.....Florence C. Bartlett.
Architect ...None.
Contractor..John J. Binet Co., 68 Ramona, San Francisco.
Filed June 20, '16. Dated June 17, '16.
Frame up $1012.50
Brown coated 1012.50
Completed 1012.50
Usual 35 days..... 1012.50
TOTAL COST, $4050.00
Bond none. Limit, 90 days. Forfeit. none. Plans and specifications filed.

ELECTRIC SIGN
(1909) NO. 816 LARKIN. Electric sign.
Owner.....Larkin Theatre, Premises.
Architect ...None.
Contractor..Brumfield Elec. Sign Co., 18 7th, San Francisco.
COST, $800

CEMENT FLOOR
(1910) NO. 244 PINE. Cement floor.
Owner.....Daniel Meyer, Premises.
Architect ...None.
Contractor..J. Pasqualetti, 785 Market, San Francisco.
COST, $875

ADDITION
(1911) NO. 2485 BROADWAY. Add to residence.
Owner.....H. H. Wilkins, 2543 Vallejo, San Francisco.
Architect ...None.
Day's work. COST, $400

(1912) NO. 560 SUTTER. Galvanized iron marquise.
Owner.....Francisca Club, Premises.
Architect ...None.
Contractor..Forderer Cornice Works, 269 Potrero Ave., S. F.
COST, $400

MARQUISE
(1913) NO. 560 BROADWAY. Erect marquise.
Owner.....C. Damico and A. Masoni, Premises.
Architect ...None.
Contractor..J. Jossa Cornice Works, 1018 Columbus Ave., S. F.
COST, $600

ALTERATIONS
(1914) E CHURCH 227 N 24th. Alter residence.
Owner.....N. Sturaza, 340 Sansome, San Francisco.
Architect ...Chas. Paff, 340 Sansome, San Francisco.
Contractor..Al. Starm, 145 Peralta Ave., San Francisco.
COST, $425

ADDITION
(1915) NO. 3933 CLAY. Add porch.
Owner.....Jacob Nieto, Premises.
Architect ...None.
Contractor..Geo. Healing, 110 Jessie, San Francisco.
COST, $400

ALTERATIONS
(1916) NO. 68 HAIGHT. Alter frame building.
Owner.....Musicians' Union, Premises
Architect ...None.
Contractor..C. A. Alter, 170 Duboce, San Francisco.
COST, $500

ELECTRIC SIGN
(1917) NO. 1423 FILLMORE. Electric sign.
Owner.....Oak I. Chambers, Premises
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

ELECTRIC SIGN
(1918) NO. 1610 ELLIS. Electric sign.
Owner.....Oak I. Chambers, Premises
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

GRADING, ETC.
(1919) NO. 1641 HAIGHT. Grading, concrete work, etc.
Owner.....H. B. Harrison, 1512 Haight, San Francisco.
Architect ...None.
Contractor..Callaghan Bros., 900 Clayton, San Francisco.
COST, $500

FRAME DWELLING
(1920) N FULTON 56-6 E 20th Ave. One-story and basement frame dwlg.
Owner.....Anthony Hill, 774 18th Ave., San Francisco.
Architect ...None.
Contractor..R. R. Irvine, 3841 18th, San Francisco.
COST, $1200

FRAME DWELLING
(1921) E NAPLES 100 S Rolph. One-story and basement frame dwelling.
Owner.....John Bjorkman, 1239 Athens, San Francisco.
Architect ...None.
Contractor..Victor Holmgren, 1239 Athens, San Francisco.
COST, $1850

FRAME FLATS
(1922) NW TWENTY-THIRD AND Hampshire 27-6x75. Carpenter work

and electric work, etc., for two-story frame flats.
Owner.....Jos. Laib Jr., Golden Gate Ave. and Gough, S. F.
Architect ...Arthur J. Laib, Russ Bldg., San Francisco.
Contractor..W. O. Peterson, 2422 22nd Ave., San Francisco.
Filed June 21, '16. Dated June 5, '16.
2nd story floor joists laid....$1312.50
Ready for lathing..... 1312.50
Standing finish on..... 656.25
Completed and accepted..... 656.25
Usual 35 days..... 1312.50
TOTAL COST, $5250.00
Bond, $2625. Sureties, Elmer Carlson and Joel Johnson. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ADDITION
(1923) NO. 2371 LOMBARD. Add four rooms.
Owner.....Mrs. A. Schoenduby, Prem.
Architect ...None.
Day's work. COST, $400

CEMENT FLOOR
(1924) NO. 2010 MISSION. Cement floor.
Owner.....Henry G. Sorbe, Premises.
Architect ...None.
Contractor..M. Coffey, 337 31st Ave., San Francisco.
COST, $650

BAKE OVEN
(1925) NO. 4005 TWENTY-FOURTH. Install bake oven.
Owner.....B. F. Owens, 4119 24th, San Francisco.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1926) NO. 41 BREHNAN PLACE. Minor alterations to present building
Owner.....Hip Seen Society, 832 Grant Ave., San Francisco.
Architect ...None.
Contractor..California Constr. Co., 646 New Call Bldg., S. F.
COST, $700

ALTERATIONS
(1927) SW FIFTH AND CLARA. Raise and underpin building.
Owner.....Dr. W. Edwards, Whitney Bldg., San Francisco.
Architect ...Fred B. Wood, 2237 Steiner San Francisco.
Day's work. COST, $750

ALTERATIONS
(1928) NO. 2412 MISSION. New front.
Owner.....N. W. Bender, Premises.
Architect ...None.
Contractor..Chas. Nagel, 381 10th, S. F.
COST, $1000

ALTERATIONS
(1929) NOS. 1430-34 WALLER. Raise and move dwelling.
Owner.....J. Tlewlle, Premises.
Architect ...None.
Contractor..Wm. Segurson, 1434 Waller, San Francisco.
COST, $600

ELECTRIC SIGN
(1930) NO. 754 BUSH. Electric sign.
Owner.....U. S. Garage, Premises.
Architect ...None.
Contractor..Novelty Elec. Sign Co., 165 Eddy, San Francisco.
COST, $400

FRAME STORE
(1931) N LELAND 200 W San Bruno. One-story frame store.
Owner.....M. Anderson, 222 Raymond Ave., San Francisco.
Architect ...None.
Contractor..T. H. Parry, 222 Raymond Ave., San Francisco.
COST, $1600

ADDITION
(1932) NO. 24 HILL. Add piano warerooms.
Owner.....W. Statham, Premises.
Architect ...None.
Day's work. COST, $400

REPAIRS
(1933) SW COLE AND OAK. Repair fire damage.
Owner.....F. Fallon, 1907 Oak, S. F.
Architect ...None.
Contractor..L. R. Vane, 661 Cole, S. F.
COST, $800

ADDITION
(1934) NO. 372 Moultrie. Raise and add to dwelling.
Owner.....S. W. Morgan, Premises.
Architect ...None.
Day's work. COST, $400

FRAME DWELLING
(1935) E TWENTY-THIRD AVE 225 N Anza. One-story and basement frame dwelling.
Owner.. Robert H. Smith, 421 26th Ave., San Francisco.
Architect ...None.
Day's work. COST, $500

FRAME APARTMENTS
(1936) N SUTTER 160 E Fillmore E 27-6xN 137-6. All work for three-story frame apartments.
Owner.....Anthony Loschiavo, 1658 Polk, San Francisco.
Architect ...Falch & Knoll, Hearst Bldg., San Francisco.
Contractor..Higginson Co., Inc., Humboldt Bank Bldg., S. F.
Filed June 22, '16. Dated June 5, '16.
Frame up $3500
Brown coated 3500
Completed and accepted..... 3500
Usual 35 days..... 3500
TOTAL COST, $14,000
Bond, $7000. Sureties, J. H. McCallum and E. O. Benner. Limit, 75 days. Forfeit, $5. Plans and specifications filed.

FRAME APARTMENTS
(1937) N GROVE 110 W Scott W 27-3⅞ xN 107-6. All work for three-story and basement frame apartments.
Owner.....George C. Maile, Cr Standard Oil Co., 200 Bush, S. F.
Architect ...O. R. Thayer, 20 Montgomery, San Francisco.
Contractor..L. A. Hinson, 180 Jessie, San Francisco.
Filed June 22, '16. Dated June 7, '16.
2nd floor joists in place.....$1650
Ready for plaster..... 1650
Plaster finished and sash in.... 1650
Standing finish in..... 1650
Completed and accepted..... 1650
Usual 35 days..... 2750
TOTAL COST, $11,000
Bond, $5500. Surety, Casualty Co. of America. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

PLUMBING
(1938) W FOLSOM 198 S 17th W 122-6 xS 150. Plumbing for two-story reinforced concrete dyeing and cleaning works.
Owner.....Jean Allec, 2148 Folsom, San Francisco.
Architect ...August G. Headman, Call Bldg., San Francisco.
Contractor..J. Looney, 85 City Hall Ave., San Francisco.
Filed June 23, '16. Dated June 20, '16.
Plumbing system roughed in...$ 624
Completed and accepted..... 1200
Usual 35 days..... 608
TOTAL COST, $2432
Bond, $1220. Sureties, E. A. Chrisholm and Jno. McGuigan. Limit, as soon as possible. Forfeit, $20. Plans and specifications filed.

FRAME APARTMENTS
(1939) E FILLMORE 100 S Broadway 37-6x68-9. All work except excavation and concrete work for three-story and basement frame apartments.
Owner.....Mrs. Anna Hladik, 825 Monadnock Bldg., S. F.
Architect ...J. C. Hladik, 825 Monadnock Bldg., S. F.
Contractor..Otto Carson, 1919 Hayes, San Francisco.
Filed June 23, 16. Dated June 22, '16.
1st floor joists laid.....$1800
Frame up 1850
Brown coated 2450
White coated and standing finish on 2400
Completed and accepted..... 2450
Usual 35 days..... 3650
TOTAL COST, $14,600
Bond, none. Limit, 90 days. Forfeit, $10. Plans and specifications filed.

FRAME FLATS AND STORE
(1940) SE KEARNY AND GREEN 47 on Green and 34 on Kearny. All work except gas and electric fixtures, window shades and finish hardware for alterations and additions to two-story frame flats and store.
Owner.....Giovanni Forte and Frank Anastasio, 397 Green, S. F.
Architect ...None.
Contractor..F. C. Amoroso, 1246 Kearny, San Francisco.
Filed June 23, '16. Dated June 22, '16.
Frame up $1650
Brown coated 1650
Completed and accepted..... 1650
Usual 35 days..... 1650
TOTAL COST, $6600
Bond, $3300. Sureties, Antonio Renaldo and N. Capurro. Limit, 90 days after July 1. Forfeit, none. Plans and specifications filed.

CONCRETE OFFICE BUILDING
(1941) NW MISSION AND MINT Ave. Concrete and reinforcement for two-story and basement reinforced concrete office building.
Owner.....Remedial Loan Association 43 5th, San Francisco.
Constr. Manager ...Frederick Whitton, 251 Kearny, San Francisco
Contractor..H. L. Petersen, 62 Post, San Francisco.
Filed June 23, '16. Dated June 21, '16.
Payments monthly of..... 75%
Usual 35 days..... 25%
TOTAL COST, $9480
Bond, $1740. Sureties, New Amsterdam Casualty Co. Limit, 75 days. Forfeit, $20. Plans and specifications filed.

INCORPORATIONS.

Rubberlastic Roofing Co. Capital Stock, $25,000; subscribed, $3; shares, $1 each. Directors—H. C. Lester, T. A. Reilly, I. W. Cumming, 1 shares each. Place of business, San Francisco.

Consolidated Ajustment Co. of California. Capital Stock, $100,000; subscribed, $30; shares, $10 each. Directors—M. Z. Farwell, E. E. Stephenson, W. K. Reeves, 1 share each. Place of business, San Francisco.

LEASE.

June 21, 1916—NE TWENTY-SECOND and Mission 50x122-6. Henry Sahlein to J C O'Connor. Assigned Dec 27, 1915 to Fred E Reed, Tr. 5years. $46,200.

June 19, 1916—W ARGUELLO BLVD 225 N Anza (A) N 50xW 120. H H Theermann to Leon Carrie. 5 years. $100 per month.

June 20, 1916—W MISSION 60 N 21st N 25xW 90. Mary R Pescia (wf Chas) fmly McLay, Robt McLay and Stirling Hamilton McLay to A Makower. 5 years. $7500.

June 20, 1916—SE EDDY & LEAVENworth. Morris and Meyer Lando to Elise Whitney. 4 years. $150 per month.

June 20, 1916—W CASTRO 96-6 S 18th S 13-6xW 74. H F Stolz to Louis and Jacob Muller (Muller Bros). 5 years. $4200.

WILL AWARD CONTRACT FOR PAVING AT SOUTH CITY.

The City Trustees at South San Francisco have received figures for grading, concrete curbs, sidewalks, sewers and oiled macadam pavement on First, Second and Third streets, A, B, C, and D streets and terminations thereof.

Petersen & Grier, 62 Post street, San Francisco, presented the lowest figure for the work at $31,294.70 and will be awarded the contract at Wednesday's meeting of the trustees. Following is a complete list of the bids received:

F. R. Ritchie Co.	$33,902.90
D. O. Church Co.	32,715.04
Petersen & Grier	31,294.70
Thomas A. Clarke	32,009.55

WANT BIDS FOR FIRE ESCAPES.

The San Francisco Board of Public Works have approved plans and specifications and have directed the Secretary to receive bids up to June 26th, 1916, for the construction of fire escapes on the following schools:

Durant School, Turk street, between Buchanan and Webster. Estimated to cost $3500.

Fremont School, N McAllister, between Broderick and Baker. Estimated to cost, $3000.

Crocker School, N Page, between Broderick and Baker. Estimated to cost $3000.

Douglas School, 19th and Collingwood. Estimated to cost, $2000.

Monroe School, Excelsior and London. Estimated to cost, $4500.

COMPLETION NOTICES.

San Francisco

RECORDED ACCEPTED

June 17, 1916—W SAN CARLOS AVE 210 N 19th. John F Haner to whom it may concern.....June 16, 1916

June 17, 1916—N TWENTY-FIFTH 25 E Hampshire W 25xN 73. Emma R O'Donnell to Segurson Bros.....June 10, 1916

June 17, 1916—N TWENTY-FIFTH 50 E York E 100 N 98 W 50 S 3 W 50 S 95. Emma R O'Donnell to Segurson Bros.....June 10, 1916

June 17, 1916—W POWELL 151-8 N Clay N 25-10xW 60. Rosa Croce to J Del Favero and Antonio Pordon .....June 17, 1916

June 19, 1916—W TWENTY-FIFTH Ave 401 N California N 26 along 25th Ave. Leo J Ruegg to whom it may concern.....June 19, 1916

June 19, 1916—N WASHINGTON 103 W Spruce N 127-8¼xW 62-6. Margaret E Sudden to Bradley & O'Reilly .....June 5, 1916

June 19, 1916—E TENTH AVE 225 S Geary S 25xE 120. J Eric Johanson to whom it may concern.....June 19, 1916

June 19, 1916—NW BUSH & POLK. Estate Sarah Fry to S J Hannah.....June 12, 1916

June 19, 1916—NW FILLMORE AND Francisco. Orange Blossom Inc to Barrett & Hilp, June 19; D J & T Sullivan.....June 19, 1916

June 20, 1916—W MISSION 160 S 22nd — 125 S parallel with W Mission 40 E 125 N 40. Marion Leventritt to The Rector System of Gas Heating.....June 20, 1916

June 20, 1916—E TWENTY-THIRD Ave 175 S Vicente Ave S 150x120. J J Murray to Ehrhardt Constr Co.....June 11, 1916

June 21, 1916—SE BRUNSWICK 25 NE Curtis 50x100. Albin M Samuelson to Henning Olson..June 20, 1916

June 21, 1916—SE CALIFORNIA & Polk — 137-6 — 111-2 — 137-6— to beg. Susanna H Van Nuys to Barrett & Hilp.....June —, 1916

June 21, 1916—N HAYES 99-6 W Gough W 24-6xN 120. Chas Katz to whom it may concern.June 19, '16

June 21, 1916—S POST 55 W Polk 30 x120. J G Kincanon and L Blum to whom it may concern..June 21, 1916

June 21, 1916—W NINTH AVE 500 S Cabrillo S 75xW 95. C A Rushton to whom it may concern.June 20, '16

June 21, 1916—NE THERESA 136 SE Alemany Ave SE 25xNE 100 Ptn Lot 146 Blk 8 Academy Tract. Victor Bjors to whom it may concern.....April 25, 1916

June 21, 1916—E MISSOURI 125 S 18th 25x100. Hugh A and Della Ward to Elmer Carlson.June 15, 1916

June 21, 1916—S MINNA 355 E 2nd E 40xS 80. Margaret Ward to Mager Bros.....June 17, 1916

June 21, 1916—S MINNA 125 NE from pt of intersection of SE Eighth and SW Minna NE 20 th at right angle ——. Sophie Baur to Albert Cook.....June 15, 1916

June 21, 1916—E SHRADER 100 N Fell N 25xE 100. Sophie Grannis to whom it may concern..June 20, '16

June 22, 1916—E LARKIN 103 N Geary N 34-6xE 60. Clyde S Payne to whom it may concern.June 20, 1916

June 22, 1916—N SUTTER 137-6 W Mason. C T Ryland to Dyer Bros Golden West Iron Works, Inc.....June 5, 1916

June 22, 1916—E BRYANT, bet. 26th and Army. Tony and Salvatora Costa to Francesco and Guiseppe Bonaccorso.....June 21, 1916

June 22, 1916—N LAKE 78-6 E 6th Ave 37-6xS4. Lloyd B Ham to whom it may concern..June 22, 1916

June 22, 1916—LOT 29 and S 15 feet Lot 28 Blk "H" Sunset Heights. William G Gilmour to whom it may concern.....June 21, 1916

June 23, 1916—W EDGEWOOD AVE (Sunset Ave) 244.31 S Farnsworth Lane, turns N and S to E and W course, S 35xW 119.18 Ptn Lots 10 and 11 Blk "H,' Sunset Heights. A G Sherman to whom it may concern.....June 23, 1916

June 23, 1916—SE MINNA 225 NE 4th NE 25xSE 70. Daniel O'Neill to Victor Stanquist.....June 19, 1916

June 23, 1916—NO. 2320 CLAY AND 2200 Webster. The Board of Trustees of the Leland Stanford Jr. University to H S Tittle...June 22, 1916

LIENS FILED

San Francisco

RECORDED AMOUNT

June 19, 1916—SW LAKE AND 15TH Ave W 52-6xS 42. Jas E Lennon Lime & Cement Co vs Mrs S Rouda and Wm Hemminga, Inc.....$43.85

June 19, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. Bennett Bros, $173; Central Elec Co, $102 vs Elizabeth S Ellinwood and Henry E Routh.....

June 19, 1916—BLK 96 and Blk 101, Stanford Heights. E D Conolley & H W Bode (as Spring Valley Lumber Yard vs Edna Davis Moore and Mercantile Trust Co, Trs Est William E Davis, dec'd and G Maestri $67.10

June 20, 1916—SW LAKE AND 15TH Ave S 42xW 52-6. Harry Beach (as Beach Electric Co) vs S and Mrs S Rouda and W L Hemminga, Inc $205.60

June 20, 1916—SW LAKE AND 15TH Ave W 52-6xS 42. H R Brown and J H Cairns vs S and Mrs S Rouda and W L Hemminga, Inc.....$248

June 20, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Joost Bros vs Jos Bacciocco and Henry Conrad $337.32

June 20, 1916—N SACRAMENTO 119-2 W Taylor W 27-6xN 120. Joost Bros vs Henry Cailleud, Jr and Henry Conrad $252.45

June 20, 1916—N PAGE 165-7½ W Central Ave W 40xN 137-6. Crane Co vs J J Seibert and C R Danziger (as Seibert Co) and Carrie Green..$26.15

June 21, 1916—SW LAKE AND 15TH Av S 42xW 52-6. N Jacobson, $450; M H Gnecco, $105.30 vs S and Mrs S Rouda and W L Hemminga, Inc

June 21, 1916—SW FIFTEENTH AVE and Lake W 52-6xS 42. C C Stilwell vs S Rouda and Wm Hemminga, Inc $79

June 21, 1916—N SACRAMENTO 119-2 W Taylor W 27-6xN 120. Eva Mordecai (as Eureka Teaming Co) vs Henry Conrad and Henry Cailleaud Jr. $48.25

June 21, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Eva Mordecai (as Eureka Teaming Co) vs

Henry Conrad and Jos Bocciocco. $46.50

June 22, 1916—E ARLINGTON 112-6 S Miguel 25x147. W H Daniel vs Fred H Detjen and John B Woolfrey $118.92

June 22, 1916—SE ARLINGTON 112 SW Miguel SE 147xSW 25. Mission Lumber Co vs Fred H Detjen and John B Woolfrey $83.50

June 22, 1916—E DIVISADERO 102-8¼ N Jackson N 25xE 110. J S Guerin & Co vs Elizabeth S Ellingwood and Henry E Routh.....$37.40

June 22, 1916—N SACRAMENTO 119-2 W Taylor W 27-6xN 120. A Seghieri & Brothers, Inc vs Henry Carlleaud Jr and Henry Conrad.....$181

June 22, 1916—E DIVISADERO 102-8¼ N Jackson N 25 E 110 S 25 W 110. Chas Holloway Jr (as Holloway Expanded Metal Co) vs Elizabeth S Ellingwood and Henry E Routh $45

June 22, 1916—SE ARLINGTON 112 SW Miguel SW 25xSE 147. Geo H Tay Co, $30.19; Joseph H Wickstrom, $36 vs J B Woolfrey and Fred H Detjen.....

June 22, 1916—W NINETEENTH AV 100 N Ulloa N 33-4xW 120. J S Guerin vs St. Clair V Irwin and C C Higgins & Son.....$137.05

June 22, 1916—N NINETEENTH AV 100 Ulloa (U) N 33-4xW 120. C W Lubliner & Co vs St. Clair V Irwin $120.50

June 22, 1916—SW LAKE AND 15TH Ave S 42xW 52-6. Chas Holloway Jr (as Holloway Expanded Metal Co) vs Mrs S Rouda and W L Hemminga, Inc $202

June 23, 1916—SW LAKE AND 15TH Ave W 52-6xS 42. Hart-Wood Lumber Co vs S J and Mrs S J Rouda and W L **Heminga,** Inc.....$618.94

June 23, 1916—N SACRAMENTO 119-2 W Taylor W 27-6xN 120. Francis Joseph Fuller and Arthur A Goepp (as Fuller & Goepp) vs Henry Conrad and Henry Cailleud $221

June 23, 1916—N SACRAMENTO 146-8 W Taylor W 27-6xN 120. Francis Joseph Fuller and Arthur Goepp (as Fuller & Goepp) vs Joseph Bocciocco and Henry Conrad.....$459

June 23, 1916—N NORIEGA 82-6 W 18th Ave W 50xN 100. Felix McHugh & Son vs Chas A Bennett..$108

June 23, 1916—SW LAKE & 15TH Ave S 42xW 52-6. N Jacobsen, $450 Schwarz & Gottlieb, $308.50; California Door Co, $307 vs S and Mrs S Rouda and W L Hemminga, Inc..

June 23, 1916—SW LAKE AND 15TH Ave W 52-6xS 42. W J Dowling vs S and Mrs S Rouda and W L Hemminga $293

Building Contracts Awarded

Oakland

No.	Owner	Contractor	Amt.
1504	Gilliam	Burrows	500
1505	Harris	Harris	400
1506	Witcher	Swan	500
1507	Walston	Walston	1800
1508	Havens	Ah Ching	500
1509	Lawrence	Lawrence	400
1510	Miller	Miller	4000
1511	Giblin	Giblin	1000
1512	Hickok	Kaler	1830
1513	Piedm't Bath	McPherson	2000
1514	Strang	Strang	1600
1524	Rabjohn	Charman	1800
1525	Ahnefeld	Ahnefeld	1900
1526	Horta	Kulchar	400
1527	Lee	Olsen	400
1528	Hughes	Spittler	2400
1529	Bishop	Bishop	500
1530	Higgins	Higgins	3900
1531	Schleuter	Trow	1000
1532	King	Armstrong	1600
1533	Wilson	Stolte	2300
1534	Shredded Wheat	Stock	5740
1546	Campbell	Guthrie	1000
1547	McGuinness	Owner	2500
1548	Wheeler	Cooley	1800
1549	Morris	Morris	1700
1550	Briggs	Briggs	2300
1551	United Bldrs	Owner,	2000
1554	Bennett	Lange	750
1555	Union Lndry	McPherson	480
1556	E & A	E & A	4000
1557	Kellogg	Kellogg	1600
1558	Nethken	Nethken	1000
1559	Schimer	Rounds	1600
1561	Joseph	Joseph	3000
1562	Adams	Lodge	1400

DWELLING
(1504) S HALLIDAY 250 W 73rd Ave., Oakland. One-story 3-room dwlg.
Owner.....J. B. Gilliam.
Architect ...None.
Contractor..J. H. Burrows, 873 69th Ave., Oakland.
COST, $500

GARAGE
(1505) NO. 6147 OCEAN VIEW DRIVE Oakland. One-story concrete garage
Owner.....R. L. Harris, Premises.
Architect ...None.
Day's work. COST, $400

ALTERATIONS
(1506) S WILLIAMS 150 E San Pablo Ave., Oakland. Alterations.
Owner.....W. Witcher, Newman.
Architect ...None.
Contractor..E. Swan, Newman.
COST, $500

DWELLING
(1507) N WENTWORTH AVE 40 W Fairfax Ave., Oakland. One-story 5-room dwelling.
Owner.....Wm. Walston, 5601 E-16th, Oakland.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
(1508) NO. 475 EIGHTH, Oakland. Alterations.
Owner.....J. W. Havens, 2631 Benvenue, Berkeley.
Architect ...None.
Contractor..Ah Ching, Premises.
COST, $500

ALTERATIONS
(1509) NW KENNEDY & FREDERick, Oakland. Alterations.
Owner.....Frank Lawrence, Premises
Architect ...None.
Day's work. COST, $400

DWELLING
(1510) S LAGUNITAS 200 W Perry, Oakland. One-story 7-room dwlg.
Owner.....H. G. Miller, 427 Lagunitas Ave., Oakland.
Architect ...None.
Contractor..O. M. Bullock, 2215 Santa Rita Ave., Oakland.
COST, $4000

BARN
(1511) E HIGH — S Southern Pacific Rail Road, Oakland. One-story barn.
Owner.....Geo. Giblin, 630 High, Okd.
Architect ...None.
Day's work. COST, $1000

DWELLING
(1512) W BLENHEIM 200 S Apricot, Oakland. One-story 5-room dwlg.
Owner.....Fred Hickok, [illegible] Ave., San Francisco.
Architect ...None.
Contractor..M. C. Kaler, 731 51st, Okd.
COST, $1830

BOILER ROOM
(1513) PIEDMONT BATHS, Oakland. Boiler room.
Owner.....Piedmont Baths Co., Prem.
Architect ...None.
Contractor..S. M. McPherson, 2155 Ashby Ave., Berkeley.
COST, $2000

DWELLING
(1514) E TWENTY-THIRD AVE 90 N E-29th, Oakland. One-story 5-room dwelling.
Owner.....E. H. Strang, 2801 23rd Ave., Oakland.
Architect ...None.
Day's work. COST, $1600

DWELLING
(1524) N CHABOT ROAD 1000 E Brookside, Oakland. One-story four-room dwelling.
Owner.....Lloyd E. Rabjohn, 3227 Garfield, Alameda.
Architect ...None.
Contractor..C. M. Charman, Chabot Rd., Oakland.
COST, $1800

DWELLING
(1525) W SIXTY-SIXTH AVE 480 S Arthur, Oakland. One-story 5-room dwelling.
Owner.....Henry Ahnefeld, 3005 King Berkeley.
Architect ...None.
Day's work. COST, $1900

ALTERATIONS
(1526) NO. 1718 SAN PABLO AVE, Oakland. Alterations.
Owner.....A. J. Horta, Premises.
Architect ...None.
Contractor..S. Kulchar Co., 8th Ave & E-10th, Oakland.
COST, $400

ADDITION
(1527) NO. 4268 HOWE, Oakland. Addition.
Owner.....Mrs. Lee, Premises.
Architect ...None.
Contractor..Oscar Olsen.
COST, $400

DWELLING
(1528) S ALCATRAZ AVE 480 E Dover, Oakland. One-story 5-room dwelling.
Owner.....Wm. P. Hughes.
Architect ...None.
Contractor..E. B. Spitler, 815 Oxford, Berkeley.
COST, $2400

DWELLING
(1529) S SIXTY-THIRD 100 E Herzog Oakland. One-story 3-room dwlg.
Owner.....L. J. Bishop, Premises.
Architect ...None.
COST, $500

DWELLING
(1530) S BROADWAY TERRACE opp Belgrave Place, Oakland. Two-story 8-room dwelling.
Owner.....E. L. Higgins, 5250 Miles Ave., Oakland.
Architect ...None.
Day's work. COST, $3900

ALTERATIONS
(1531) NO. 478 THIRTEENTH, Oakland. Alterations.
Owner.....A. Schleuter Co., Premises.
Architect ...None.
Contractor..Chas. L. Trow, 835 38th, Berkeley.
COST, $1000

ALTERATIONS
(1532) SE THIRTEENTH & WEBster, Oakland. Alterations.
Owner.....J. H. King Estate, 308 12th, Oakland.
Architect ...None.
Contractor..G. Armstrong, 1639 Alcatraz Ave., Berkeley.
COST, $1600

FRAME DWELLING
(1533) NE FLEMING AVE 342.80 NW Seminary Ave NW 60 NE 88.94 SE 60 SW 88.94, Oakland. All work for one and one-half-story frame dwlg.
Owner.....Eva M. Wilson, Merritt Hospital, Oakland.
Architect ...None.
Contractor..Ferd C. Stolte, 3449 Laguna Ave., Oakland.
Filed June 20, '16. Dated June 2, '16.
Rafters placed ..... ¼
Enclosed ..... ¼
Completed and accepted..... ¼
Usual 35 days..... ¼
TOTAL COST, $2300
Bond, $1150. Sureties, T. H. Lloyd and F. F. Morse. Limit, 90 days. Forfeit, $5. Plans and specifications filed.

SIDE WALKS, ETC.
(1544) LOTS 8 TO 24 INCL. and Ptn Lots 4, 5, 6, 7 and 25 to 32 incl. R. J. McMullen's Sbdvn Blk 576, Oakland. Concrete fire cistern and side walk, curbs and pavement, etc., for factory.
Owner.....Pacific Coast Shredded Wheat Company.
Architect ...Hobart & Bogart, Crocker Bldg., San Francisco.
Contractor..Lester H. Stock, Hearst Bldg., San Francisco.
Filed June 21, '16. Dated June 10, '16.
Monthly payments of..... 75%
Usual 35 days..... 25%
TOTAL COST, $5740
Bond, $2870. Surety, Casualty Co. of America. Limit, 36 days. Forfeit, $10. Plans and specifications filed.

ADDITION
(1546) NO. 2638 VALDEZ, Oakland. Addition.
Owner.....Mrs. L. A. Campbell, Prem.
Architect ...None.
Contractor..E. L. Guthrie, 2626 Valdez, Oakland.
COST, $1000

DWELLING
(1547) W BEAUMONT 200 N E-28th, Oakland. One-story 6-room dwlg.
Owner.....Jas. McGuinness, 5615 E-17th, Oakland.
Architect ...None.
Day's work. COST, $2500

DWELLING
(1548) S WOODBINE AVE 300 W Fruitvale Ave., Oakland. One-story 5-room dwelling.
Owner.....W. H. Wheeler, 3225 Fruitvale Ave., Oakland.
Architect ...None.
Contractor..O. C. Cooley, — Diamond Ave., Oakland.
COST, $1800

DWELLING
(1549) W HIGH 160 S Santa Rita, Oakland. One-story 6-room dwelling
Owner.....Annie D. Morris, 914 Kains Ave., Oakland.
Architect ...None.
Contractor..R. Morris, 914 Kains Ave., Oakland.
COST, $1700

DWELLING
(1550) E 108TH AVE 280 N Voltaire, Oakland. One-story 6-room dwelling
Owner.....Charles Briggs, 1654 7th, Oakland.
Architect ...None.
Day's work. COST, $2300

DWELLING
(1551) N BAY VIEW AVE 215 E Elliott, Oakland. One-story 6-room dwelling.
Owner.....United Home Bldrs., 1527 Broadway, Oakland.
Architect ...None.
Day's work. COST, $2000

FIRE REPAIRS
(1554) NO. 6444 BENVENUE AVE., Oakland. Fire repairs.
Owner.....Mrs. Bennett, Seattle, Washington.
Architect ...None.
Contractor..C. E. Lange, 250 Grand Ave., Oakland.
COST, $750

BOILER ROOM
(1555) NOS. 2510-14 FILBERT, Oakland. Boiler room.
Owner.....Union Laundry Co., Prem.
Architect ...None.
Contractor..S. W. McPherson, 2155 Ashby Ave., Berkeley.
COST, $480

DWELLING
(1556) E SPRUCE 108 S Cleveland Ave., Oakland. Two-story 7-room dwelling.
Owner.....E. & A. Co., Syndicate Bldg Oakland.
Architect ...None.
Day's work. COST, $4000

DWELLING
(1557) NE LAGUNA AVE & MONTANA, Oakland One-story 5-room dwlg.
Owner.....I. A. Kellogg, 3404 Champion, Oakland.
Architect ...None.
Day's work. COST, $1600

DWELLING
(1558) W THIRTY-NINTH 104 N Kanning, Oakland. One-story four-room dwelling.
Owner.....Howard Nethken, 3544 Porter, Oakland.
Architect ...None.
Day's work. COST, $1000

DWELLING
(1559) S LAKESHORE AVE 300 E Walla Vista, Oakland. One and one-half-story 4-room dwelling.
Owner.....W. E. Schirmer, 676 63rd, Oakland.
Architect ...Schirmer Bugbee & Co., Dalziel Bldg., Oakland.
Contractor..F. C. Rounds, 820 56th, Oakland.
COST, $1600

DWELLING
(1561) S CLEVELAND AVE 100 W Spruce, Oakland. One and one-half-story 7-room dwelling.

Wednesday, June 28, 1916.

Owner.....Paul E. Joseph, 842 Cleveland, Oakland.
Architect ...None.
Day's work. COST, $3000

DWELLING
(1562) E SIXTY-FIFTH AVE 150 N Avenal, Oakland. One-story 4-room dwelling.
Owner.....A. Adams, 605 11th, Okd.
Architect ...None.
Contractor..C. F. Lodge, 611 Cleveland, Oakland.
COST, $1400

Building Contracts Awarded

Berkeley

No.	Owner	Contractor	Amt.
1515	Reinhardt	Owner	3000
1516	Yerxa	Pittock	2500
1517	Bonkofsky	Owner	1200
1518	Olson	Olson	2400
1519	Wright	Miller	1600
1520	Batsford	Hanson	3500
1521	Smith	Nichols	1400
1522	Peet Bros	Walker	50000
1523	Armstrong	Franklin	1000
1534	Welcker	Morse	1000
1541	Wolbold	Kollmer	3500
1542	Byers	Byers	3300
1543	Marston	Kidder	450
1545	D'Askquith	Baker	2997
1552	Jarvis	Koski	1000
1553	Jarvis	Koski	1000
1560	Rankin	Rankin	3500

DWELLING
(1515) NO. 3124 LEWISTON AVE., Berkeley. One-story 6-room dwlg.
Owner.....Emma V. Reinhardt, 6428 Colby, Berkeley.
Architect ...None.
Contractor..Joseph Reinhardt, 6428 Colby, Berkeley.
COST, $3000

DWELLING
(1516) E HIGH COURT 49.32 N Oak, Berkeley. Two-story 6-room dwlg.
Owner.....Edna Staples Yerxa, 2739 Fulton, Berkeley.
Architect ...None.
Contractor..Geo. S. Pittock, 2744 Fulton, Berkeley.
COST, $2500

DWELLING
(1517) NO. 1621 BELVEDERE, Berkeley. One-story 6-room dwelling.
Owner.....F. E. Bonkofsky, Prem.
Architect ...None.
Day's work. COST, $1200

DWELLING
(1518) N WARD 50 E Mabel, Berkeley. One-story 5-room dwelling.
Owner.....Arvid E. Olson, 2129 Telegarph Ave., Oakland.
Architect ...None.
Day's work. COST, $2400

DWELLING
(1519) W SACRAMENTO 115 N Allston, Berkeley. One-story 5-room dwelling.
Owner.....Fennell Wright.
Architect ...Wm. Helms, 777 10th, Bkly
Contractor..J. E. Miller, 1030 47th, Oakland.
COST, $1600

DWELLING
(1520) N MARIN 176 E The Alameda, Berkeley. One-story 6-room dwlg.
Owner.....S. B. Batsford, Stuart near Fulton, Berkeley.
Architect ...W. L. Broderick, 1201 Colusa Ave., Berkeley.
Contractor..J. S. Hanson, 1638 Josephine, Berkeley.
COST, $3500

DWELLING
(1521) N WARD 195 E Baker, Berkeley. One-story 5-room dwelling.
Owner.....Mrs. N. Smith, 2733 Dohr, Berkeley.
Architect ...None.
Contractor..C. S. Nichols, 2768 Baker, Berkeley.
COST, $1400

FACTORY
(1522) S CARLTON AND FIFTH, Berkeley. Four-story mill construction factory
Owner.....Peet Bros. Mfg. Co.
Architect ...None.
Contractor..P. J. Walker Co., Monadnock Bldg., S. F.
COST, $50,000

ALTERATIONS
(1523) NO. 1424 GROVE, Berkeley. Alterations.
Owner.....W. Armstrong, Premises.
Architect ...None.
Contractor..John Franklin, 2324 Roosevelt, Berkeley.
COST, $1000

ALTERATIONS
(1534) E OXFORD 600 N Rose, Berkeley. Alterations.
Owner.....Mrs. E. Welcker, The Cedars, Berkeley.
Architect ...None.
Contractor..T. O. Morse, 1398 Scenic Ave., Berkeley.
COST, $1000

DWELLING
(1541) W BONITA 150 W Rose, Berkeley. Two-story 6-room dwelling.
Owner.....J. H. Wolbold, 1st National Bank Bldg., Berkeley.
Architect ...None.
Contractor..Jacob Kollmer, 2813 Stuart, Berkeley.
COST, $3500

DWELLING
(1542) S STUART 100 W Benvenue, Berkeley. Two-story 9-room dwlg.
Owner.....C. H. Byers, 2810 Fulton, Berkeley.
Architect ...None.
Day's work. COST, $3300

GARAGE
(1543) S VINE 150 E Arch. Berkeley. Garage.
Owner.....Capt. Marston, NW Vine and Arch, Berkeley.
Architect ...None.
Contractor..Kidder & McCullough, 2075 Addison, Berkeley.
COST, $450

BUNGALOWS
(1545) W GROVE, bet. Ashby Ave and Russell, Berkeley. All work for two five-room bungalows.
Owner.....Milton E. and Catherine D'Askquith, 5838 Occidental, Oakland.
Architect .. None.
Contractor..William J. Baker.
Filed June 21, '16. Dated June 20, '16.
Frame up on 1st building..... ⅛
Brown coat on 1st building..... ⅛
Frame up on 2nd building..... ⅛
2nd building brown coated and roof on ..... ⅛
Both completed ..... ¼
Usual 35 days..... ¼
TOTAL COST, $2997.50
Bond, none. Limit, 60 days after June 23. Forfeit, none. Plans and specifications filed.

DWELLING
(1552) NO. 1230 ALLSTON WAY, Berkeley. One-story 4-room dwelling.
Owner.....E. Jarvis.
Architect ...John Hudson Thomas, 1st National Bank Bldg., Bkly.
Contractor..Matt L. Koski, 35 Ramona Ave., Oakland.
COST, $1000

DWELLING
(1553) NO. 1232 ALLSTON WAY, Berkeley. One-story 4-room dwelling.
Owner.....E. Jarvis.
Architect ...John Hudson Thomas, 1st National Bank Bldg., Bkly.
Contractor..Matt L. Koski, 35 Ramona Ave., Oakland.
COST, $1000

DWELLING
(1560) N PLAZA DRIVE 150 W Nogales, Berkeley. Two-story 7-room dwelling.
Owner.....Cora C. Rankin, 337 Alcatraz Ave., Berkeley.
Architect ...None.
Contractor..J. L. Rankin, 337 Alcartaz Ave., Berkeley.
COST, $3500

Building Contracts Awarded

Alameda

1535	Surf Beach	Spence	11800
1536	Koerber	Young	1300
1537	New Parisian	Dufour	800
1538	Schmidt	Schmidt	500
1539	Plummer	Delanoy	400
1540	Dorward	Bertelsen	415

DANCE HALL
(1535) SURF BEACH PARK, Alameda Dance hall.
Owner.....Surf Beach Park, Premises.
Architect ...Edw. Symmes, Pacific Bldg., San Francisco.
Contractor..A. T. Spence, 641 Taylor Ave., Alameda.
COST, $11,800

ALTERATIONS
(1536) NO. 2305 SANTA CLARA AVE. Alameda. Alterations.
Owner.....Dorothea Koerber, 2126 Santa Clara Ave., Alameda.
Architect .. None.
Contractor..E. Young, 2415 Webb Ave., Alameda.
COST, $1300

ADDITION
(1537) NO. 2811 ENCINAL AVE., Alameda. Addition.
Owner.....New Parisian Laundry, Premises.
Architect ...None.
Contractor..Wm. Dufour, Santa Clara Ave., Alameda.
COST, $800

OFFICE
(1538) COTTAGE BATHS, Central Ave., Alameda. One-story office.
Owner.....Mrs. A. M. Schmidt, 564 Central Ave., Alameda.
Architect ...None.
Contractor..Paul Schmidt, 564 Central Ave., Alameda.
COST, $500

GARAGE
(1539) NO. 2903 CENTRAL AVE., Alameda. Garage.
Owner.....A. W. Plummer, Premises.
Architect ...None.
Contractor..Delanoy & Randlett, 2303 Central Ave., Alameda.
COST, $400

ALTERATIONS
(1540) NO. 1301 SANTA CLARA AVE., Alameda. Alterations.
Owner.....J. E. Dorward, 1621 San Antonio Ave., Alameda.
Architect ...None.
Contractor..S. J. Bertelsen, 667 39th, Oakland.
COST, $415

CESSATION OF LABOR.

June 21, 1916—N SACRAMENTO 119-2 W Taylor N 120xW 27-6. Henry Cailleaud Jr with Henry Conrad. Work ceased.....April 28, 1916

COMPLETION NOTICES.

ALAMEDA COUNTY.

RECORDED ACCEPTED
June 10, 1916—LOT 7 BLK "B" Lincoln Park Tct, Piedmont. Stephen M Osborn to A R Dexter.June 10, '16
June 10, 1916—LOTS 15 AND 16 BLK 7 Map Highland Park Terrace, Okd. E W Horne to Hugh Tullock.....June 10, 1916
June 10, 1916—N PROSPECT AVE, being SE 20 Lot 5 and NW 15 Lot 6 Blk "E" Map Broadway Terrace, Okd. R H Banning and James E Stewart to whom it may concern.....Completed —, 1916
June 10, 1916—N 20-10 LOT 4 and S 18-4 Lot 5 Blk "D" Map Broadway Terrace, Okd. R H Banning and Jas E Stewart to whom it may concern.....Completed —, 1916
June 10, 1916—LOT 7 SE 10 Lot 6 Blk "E" Map Broadway Terrace, Okd. R H Banning and Jas E Stewart to whom it may concern .....Completed —, 1916
June 10, 1916—ASHBY AVE — W Piedmont Ave 55x130, being Lot 13 Blk "B" Map Elmwood Park, Bkly. Grace Everett Barnard to Enoch Tranmal.....June 8, 1916
June 10, 1916—LOT 13 BLK "C" Map Scenic Blvd Knoll, Okd. H S Patton to whom it may concern.....June 9, 1916
June 10, 1916—DUSTERBERRY Ranch, Centerville, bounded on SE by County Road 1948. F T Dusterberry to John Haar.....June 2, 1916
June 12, 1916—LOT 132 and E 20 Lot 131 Blk 35 Amended Map Havenscourt, Okd. J Englander to A R Dexter.....June 12, 1916
June 12, 1916—LOT 62 Nova Piedmont, Piedmont. R V and Emma F Chandler to E W Woodard.....June 8, 1916
June 14, 1916—LOT 34 BLK 17 Map Iveywood Ext., Okd. G W Quin to M H Allen and H C Miller.....June 7, 1916
June 15, 1916—PTN LOT 10 BLK 7 Map Berkeley Heights, Bkly. Chas A McKelvey to Chris Engelsen.....June 5, 1916
June 14, 1916—LOTS 8 TO 24 INCL. and Ptn Lots 4, 5, 6, 7 and 25 to 32 incl. R J McMullen's Sbdvn Blk 576 of City of Oakland. Pacific Coast Shredded Wheat Co to De Luchi Schufelt Co.....May 31, 1916
June 17, 1916—PTN LOTS 7 AND 8 Blk "B" Lincoln Park Tract, Piedmont. A R Dexter to whom it may concern.....June 10, 1916
June 19, 1916—(1) PTN LOT 6 BLK

"C" Map Bella Vista Park; (2) Ptn Lots 4 and 5 Blk "C" Map Bella Vista Park, Okd. John D Garretson to whom it may concern..... .....June 15, 1916

June 19, 1916—LOTS 21 AND 22 BLK "B" Map Waterside Terrace, Okd. John D Garretson to whom it may concern.....June 15, 1916

June 19, 1916—W 38 LOT 5 and E 37 Lot 4 Blk "C" Map Claremont Court, Bkly. Mason McDuffie Co to whom it may concern..June 10, 1916

June 19, 1916—LOT 2 BLK "C" Map Claremont Court, Bkly. Mason-McDuffie Co to whom it may concern .....June 10, 1916

June 19, 1916—NO. 3935 MARKET, Okd. C A Luedeking to J W Jesperson and A C Dippo..June 12, 1916

June 19, 1916—W PLEASANT VALley Ave. 45 N Oakland Ave, being Ptn Lot 36 Map Bowie Ppty, Piedmont. Alfred Cords to whom it may concern.....June 19, 1916

June 19, 1916—LOT 20 BLK "C" Map Kenwood Park, Okd. Syndicate Investment Co to Roy B Litton..... .....June 17, 1916

June 19, 1916—LOT 25 BLK "C" Map Kenwood Park, Okd. Syndicate Investment Co to Roy B Litton..... .....June 17, 1916

June 19, 1916—E 35 LOT 34 BLK 2113 Map Alden Tract at Temescal, Okd. J P Silva to whom it may concern.....June 17, 1916

June 19, 1916—ALL LOTS 8 TO 24 incl and ptn Lots 4, 5, 6, 7 and 25 to 32 incl, R J McMullen's Sbdvn Blk 576 of City of Oakland. Pacific Coast Shredded Wheat Co to Lester Stock; J H Keefe & Co; W P Fuller & Co; Vitrolite Constr Co; Wm Makin.....June 14, 1916

June 20, 1916—E PERALTA AVE 170 N Sonoma Ave, Albany. W N Taylor to J G Taylor.....June 20, 1916

June 20, 1916—LOT 10 BLK 17 Northbrae, Bkly. Reed W Thomas to A H Pallen.....June 17, 1916

June 21, 1916—PTN LOTS 4, 5 AND 6 Blk "C" Map Bella Vista Park, Okd. John D Garretson to whom it may concern.....June 21, 1916

June 22, 1916—LOT 8 BLK 7 Resbdvn Blks 9, 10, 11, 12, 13, 14 and ptn Blk 16, Rockridge Terrace, Okd. Oakland Investment Co by Jean Sherry to whom it may concern... .....June 22, 1916

June 22, 1916—S FIFTY-EIGHTH, bet Adeline and Genoa, Okd. J A Sabatte to J W Williams..June 22, 1916

June 22, 1916—LOT 5 Sylvan Crest Tract on SW Cor. Coronada and Desmont, Okd. Frank R Makinson to R E Stubbe.....June 22, 1916

LIENS FILED

ALAMEDA COUNTY.

June 10, 1916—W THOMAS 180 S Prospect Drive S 40xW 100, Okd. Hall Furnace Co, $67.50; E K Wood Lumber Co, $290.46; Bass-Hueter Paint Co, $69.06; R McDermott, $268.56; Sunset Lumber Co, $77 vs Walter H Packard.....

June 13, 1916—N 15 LOT 28 all Lot 29 Blk "F" Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $35

June 13, 1916—W THOMAS 180 frm S line Prospect Drive S 40xW 100, Okd. F M Cooke, $110; I J and M L Fairbanks (Fairbanks Bros) $106.94 vs Walter H Packard.....

June 13, 1916—N 5 LOT 26, all Lot 27 and S 10 Lot 28 Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $60

June 13, 1916—N 20 LOT 25 and S 20 Lot 26 Blk "F" Map Broadway Terrace, Okd. Bird Rymer Co vs Walter H Packard $62.50

June 14, 1916—W THOMAS 180 S Prospect Drive S 40xW 100, Okd. Pacific Mfg Co vs Walter H Packard $247

June 14, 1916—S TWELFTH 75 W Broadway W 25xS 100, Okd. L E Dobon vs Levy Estate Co....$175.54

June 14, 1916—W THOMAS 100 S Prospect Drive S 40xW 100, Okd. James H Cobbledick vs Walter H Packard $45

June 14, 1916—W THOMAS 140 S Prospect Drive S 40xW 100, Okd. James H Cobbledick vs Walter H Packard $26

June 16, 1916—SW FRANCISCO AND Sacramento S 100xW 80, Berkeley. Livermore Fire Brick Co vs E M Reagh, Henry A Lehfeldt and Asa Perkins $37.25

June 17, 1916—LOTS 8 AND 19 Map Resbdvn Blks 9, 10, 11, 12, 13, 14 and ptn Blk 16, Rockridge Terrace, Okd. Lester Watson, $23.75; R R Condyser, $13.75 vs E M Reagh and Henry Lehfeldt .....

June 17, 1916—LOT 95 Map Alta Piedmont Tract, Oakland Tp. Rhodes-Jamieson Co vs R E Stubbe, G W Comfort and R F Sperow....$195.39

June 17, 1916—LOT 95 Map Alta Piedmont Tract, Oakland Tp. Sunset Lumber Co, $1426.39; Oakland Paving Co, $120.15; M Friedman & Co, $37.35; Bass Heuter Paint Co, $119; Maxwell Hardware Co, $157.52 vs R E Stubbe.....

June 19, 1916—LOT 95 Amended Map Alta Piedmont Tract and Alta Heights, Piedmont. Bird Rymer Co vs R E Stubbe.....$100

June 19, 1916—LOT 14 AND N ½ Lot 13 Blk "E" Map Bella Vista Park, Okd. Hammond Lumber Co vs Marie M Grief, Benjamin M Mederer and A L Haley.....$35

June 21, 1916—LOT 14 and N ½ Lot 13 Blk "E" Map Bella Vista Park, Okd. P E O'Hair (Oakland Plumbing Supply Co) vs A L Haley, Mary M Grief and Benjamin M Mederer. $35

June 21, 1916—S CALMAR AVE 217 W Paloma 50 feet frontage being No. 725 Calmar Ave, Okd. E Rosenberg (Wedel Electric Co) vs Annie Depaoli $47.50

June 21, 1916—LOT 10 BLK "D" Scenic Blvd Knoll, Okd. Herman Nicolai vs H S Patton.....$147.30

June 22, 1916—N CLEMENT AVE 127-9½ W Park W 50xN 145, Ala. E K Wood Lumber Co vs Gabriel and Theresa Vergez and William Dufour $992.58

June 22, 1916—N SIXTY-SECOND 76.18 W Lowell W 35xN 132, Okd. E K Wood Lumber Co vs Leon and Jane Doe Cameto and R H Martin $250.08

June 22, 1916—S 50 LOT 20 BLK "X" Map No. 3 of Roberts and Wolfskill Tract, being NE Rose and Howell, Okd. Sunset Lumber Co vs Amelia and W H Moore.....$167.25

June 23, 1916—LOT 14 and N ½ Lot 13 Blk "E" Map Bella Vista Park, Okd. John P Maxwell (Maxwell Hardware Co) vs Marie M Greif, Benjamin M Mederer and A L Haley $22.15

June 23, 1916—E THOMAS 294 N Napa N 76xE 100, Okd. George H Tay Co vs E L Higgins and N C Hill $156.97

June 23, 1916—LOT 18 BLK 43 Map Part Minturn Tract, Alameda. Sunset Lumber Co vs Gabriel and Therese Vergez and William H Dufour $105.25

BUILDING CONTRACTS.

SANTA CLARA COUNTY.

FRAME CHURCH

LOT 2 BLK 22, University Park, Palo Alto. All work except work for pews and electric fixtures for frame church

Owner.....First Church of Christ Scientist of Palo Alto.

Supervising Architect ...Henry H. Gutterson, 68 Post, S. F.

Designer ...Elmer Gray, Wright and Callender Bldg., Los Angeles.

Contractor..Frank Graves & Son, Builders' Exchange Bldg., Los Angeles.

Filed June 20, '16. Dated June 13, '16. Contractor to get commission of 7½% of contract price, and is to be paid on acceptance of job.... Cost of labor and materials to be paid each month to contractor...

TOTAL COST, $17,450

Bonds, $4363 to owner; $8725 for labor and material. Surety, United States Fidelity & Guaranty Co. Limit, 5 months from date. Forfeit, none. Plans and specifications filed.

FRAME DWELLING

SOUTH PALO PARK, Palo Alto. All work for two-story frame dwelling.

Owner.....W. D. Briggs, 360 Kingsley St., Palo Alto.

Architect ...Charles S. Kaiser, Mechanics' Inst. Bldg., S. F.

Contractor..George W. Mosher, 365 Channing, Palo Aito.

Filed June 15, '16. Dated June 12, '16.

Frame up	$1188
Enclosed and 1st coat plaster on	1188
Job accepted	1188
Usual 35 days	1228
TOTAL COST,	$4792

Bond, $2400. Sureties, C. H. Christensen and F. Cramer. Limit, 100 days from date. Forfeit, none. Plans only filed.

BRICK TELEPHONE BUILDING

MONTEREY ST., near Fifth, Gilroy. All work for two-story brick telephone building.

Owner.....Gilroy Investment Co.

Architect ...Wm. Binder, Theatre Bldg., San Jose.

Contractor..W. Radtke.

Filed June 19, '16. Dated June 12, '16.

On 1st of each month	75%
Usual 35 days	25%
TOTAL COST,	$6760

Bond, $3380. Sureties, J. A. Chase and A. W. Cox. Limit, 95 days from filing. Forfeit, $3 per day. Plans and specifications filed.

CONCRETE WORK, ETC.

UNIVERSITY AVE AND HIGH ST., Palo Alto. Concrete, etc., for three-story brick and frame store and office building.

Owner.....Ernest Wilson Co., Palo Alto.

Architect ...Arthur S. Heineman, San Fernando Bldg., Los Angeles.
Sub-Contractor..Charles Sartorio.
Filed June 17, '16. Dated June 14, '16.
Foundation in $450.00
Walls up, tie beams in..... 900.00
Job accepted 239.25
Usual 25 days..... 529.75
TOTAL COST, $2119.00
Bond, $1059.50. Surety, Guardian Casualty & Guaranty Co. Limit, 100 days from date of Dreyfus Bros. main contract. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY.

RECORDED ACCEPTED
June 15, 1916—LOT 11 Mott Sbdvn, Los Gatos. C E Thomson to whom it may concern.....June 15, 1916

LIENS FILED

SANTA CLARA COUNTY.

RECORDED AMOUNT
June 12, 1916—ADDISON ST., near Emerson, Palo Alto. George H Tay Co vs N H Ansen and Caroline N Fiehmann $83.77
June 12, 1916—LOT 19 BLK 48, Palo Alto. George H Tay Co vs Anton Jensen and R S Jewell.....$112.14
June 14, 1916—FRANKLIN ST., bet. Jefferson and Lincoln, Santa Clara. E J McDaniel vs Henry R and Mary F Roth $252.50

BUILDING CONTRACTS

MARIN COUNTY.

FRAME BUNGALOW
SAN GERONIMO, Marin Co. All work for frame bungalow.
Owner.....Chas. Cleveland, 2154 Buena Vista Ave., Alameda
Architect ...None.
Contractor..A. T. Spence, 641 Taylor Ave., Alameda.
Filed June 17, 16. Dated June 1, '16.
Frame up $800
Plastered 800
Completed 800
Usual 35 days.....Balance
TOTAL COST, $3200
Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

TIBURON, Marin Co. All work for one-story bungalow.
Owner.....E. A. Creighton, Lyford's, Tiburon, Cal.
Architect ...None.
Contractor..Chas. H. Wilson.
Filed June 19, '16. Dated June 19, '16.
Material on ground..... ¼
Roof on ..... ¼
When finished ..... ¼
30 days after..... ¼
TOTAL COST, $1602
Bond, limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY.

COTTAGE
TWELFTH, bet. Barrett and Roosevelt, Richmond. Cottage.
Owner.....Thomas J. McDonough, 502 Standard Ave., Richmond.
Architect ...None.
Contractor..J. A. Fagerstrom, 23 9th St., Richmond.
COST, $1750

COTTAGE
MAPLE AVE., bet. Cutting and Wall Sts., Richmond. Cottage.
Owner.....Thors Hrones, 110 Maple Ave., Richmond.
Architect ...None.
Day's work. COST, $1250

COTTAGE
ORCHARD AVE near San Pablo Ave., Richmond. Cottage.
Owner.....F. C. Du Chaine, Bay View Ave., Richmond.
Architect ...None.
Contractor..F. C. Harris, 4220 Kanning Ave., Oakland.
COST, $1500

LIENS FILED

MARIN COUNTY.

RECORDED AMOUNT
June 20, 1916—SAN ANSELMO. T J Hamblen vs Chas Novak.....$35

COMPLETION NOTICES

FRESNO COUNTY.

RECORDED ACCEPTED
June 20, 1916—5 ACRES OF E ½ OF NE ½ of SE ¼ of Sec 10, 14-20, Fresno. California Products Co to whom it may concern..June 15, 1916

BUILDING CONTRACTS

FRESNO COUNTY.

STORE
LOTS 11, 12 AND 13 BLK 82, Fresno. Store.
Owner.....Milo Rowell, 1037 U St., Fresno.
Architect ...None.
Contractor..R. F. Felchlin, Rowell Bldg., Fresno.
COST, $9100

ALTERATIONS
LOTS 9 AND 10 BLK 83, Fresno. Alter store.
Owner.....Black's Package Co., Lessee, 1025 K ST., Fresno.
Architect ...None.
Contractor..R. F. Felchlin, Rowell Bldg., Fresno.
COST, $1100

LOT 9 BLK 20, East Fresno. Dwelling.
Owner.....Jas. L. Miller, 3253 Balch St., Fresno.
Architect ...None.
Contractor..Lee Duncan, 4th and Elmonte Sts., Fresno.
COST, $4800

STORE
LOT 28 BLK 75, Fresno. Store.
Owner.....C. B. Melikian, 710 I St., Fresno.
Architect ...None.
Contractor..Daniel O. Housepian, 333 N St., Fresno.
COST, $4750

NOTICE OF NON-LIABILITY.

FRESNO COUNTY.

June 16, 1916—SE ¼ OF SEC. 34-18-19, Fresno. F J and C E Campbell as to improvements on leased property .....

NOTICE OF NON-RESPONSIBILITY.

FRESNO COUNTY.

June 14, 1916—NO. 1129 J ST., Fresno. Karl H Brix et al as to improvements on leased property.....

BUILDING CONTRACTS

SACRAMENTO COUNTY.

BRICK WORK, ETC.
LOT 4 L, M, 27TH AND 28TH STS., Sacramento. Brick and concrete work, etc., for three-story and basement ment Class "C" lodge building.
Owner.....Scottish Rite Cathedral Association of Sacramento.
Architect ...Carl Werner, Phelan Bldg., San Francisco.
Contractor..Mealey & Collins, 185 Stevenson, San Francisco.
Filed June 16, '16. Dated June 15, '16.
COST, $13,600

WAREHOUSE
NO. 215 EIGHTEENTS ST., on Lots 1 and 2, Blk 6-18-19, Sacramento. One-story warehouse.
Owner.....California Almond Growers Exchange, 708 People's Bk. Bldg., Sacramento.
Architect ...None.
Contractor..H. Simpson and Standard Electric Works.
COST, $5500

SHELLING PLANT
NO. 1815 C ST., on W 60 feet Lot 7, B, C, 18th and 19th Sts., Sacramento. One-story almond shelling plant.
Owner.....California Almond Growers' Exchange, 708 People's Bank Bldg., Sacramento.
Architect ...None.
Contractor..H. Simpson and Standard Electric Works.
COST, $2800

FRAME DWELLING
NO. 2120 THIRTEENTH ST., on S ½ of N ½ Lot 5, U, V, 12th and 13th Sts., Sacramento. One-story frame dwlg.
Owner.....H. L. Mee, 2116 13th St., Sacramento.
Architect ...None.
Day's work. COST, $1800

ALTERATIONS
NO. 2000 NINTH ST., N ½ of Lot 4, T, U, 8th and 9th Sts., Sacramento. Remodel residence.
Owner.....C. W. Sharper, 514 17th St., Sacramento.
Architect ...None.
Contractor..Moosing & Son.
COST, $1060

ALTERATIONS
NO. 2910 THIRTY-FIFTH ST., on Lot 21 Blk 54 of W. J. Landers' Sug "B," Sacramento. Remodel dwelling.
Owner.....George Schelcher, 2430 Q St., Sacramento.
Architect ...None.
Day's work. COST, $1000

BUILDING CONTRACTS

SONOMA COUNTY.

ADDITION

SANTA ROSA. Steel frame, corrugated iron roof and walls for extension of Santa Rosa gas plant.

Owner.....Pacific Gas & Electric Co.
Architect...None.
Contractor..Wester Iron Works, 141 Beale, San Francisco.
Filed June 1, 16. Dated May 27, '16.
Completed and accepted..... 75%
Usual 35 days..... 25%
TOTAL COST, $1323

Bond, $700. Surety, New Amsterdam Casualty Co. of New York City. Limit, 21 days after notified. Forfeit, none. Plans and specifications filed.

LIENS FILED

SONOMA COUNTY.

RECORDED AMOUNT

June 2, 1916—SANTA ROSA. Mead Clark Lumber Co vs Geo Gruber..$21

PLAN TO BRIDGE BAY EXPLAINED.

Harlan D. Miller, a civil engineer of New York city, who is associated with the engineering companies of Wilber J. Watson & Co. of Cleveland, Ohio, and William Russell Davis of Albany, New York, in the proposed plan for bridging the bay to connect Alameda County and San Francisco, gave a description of the project at a luncheon held at the Hotel Shattuck by the Berkeley Chamber of Commerce last week.

Engineer Miller was introduced by Secretary Wells Drury of the Chamber of Commerce, who said:

"Figures provided by the engineers who have made estimtes on the proposed bridge indicate that the cost would be about $22,000,000. This would make the share of Alameda County about $11,000,000, and San Francisco an equal amount. For two rich counties like these the amount is insignificant. For instance, Alameda County never has owed a cent, and always keeps a cash balance of $1,000,000 on hand. San Francisco would have no difficulty in financing its share of the bridge, because it is assured of success from the beginning. The bridge would not involve any high finance, as it would be an inter-county highway, built by the two counties interested, without the intervention of agents, and there would be no commission to be paid to anybody. It would be a simple proposition of community ownership that would pay from the start. Bonds could be issued to cover the entire expense, and in ten years earnings from the bridge would pay off the bonds and after that yield a profit of not less than $2,000,000 a year, which could be used to reduce taxes in Alameda County and San Francisco.

"The transportation companies figure that it costs them two cents for each passenger taken across the bay, and it is proposed to charge them an equal sum for each passenger using the bridge."

Revenue from Bridge.

The following table prepared under the supervision of the engineers in charge of the proposed work, indicates the sources of revenue per annum:

Passengers	$1,200,000
Automobiles, auto trucks and other vehicles	1,500,000
Passenger coaches	675,000
Conduits, electric wires, cables, etc.	75,000
	$3,450,000

Secretary Drury explained that the interest on the bonds is figured at a little more than $1,000,000, and the maintenance of the bridge would be about $100,000. This would leave more than $2,000,000, which would be applied to the sinking fund for retiring the bonds. As the traffic across the bay is growing constantly, the amount available for the sinking fund would be greater each year.

Engineer Miller, on being introduced, said that he was glad to present a synopsis of the projected bridge to the people of Berkeley. "The construction of a bridge across San Francisco Bay is a project of magnitude, for if built it will be the greatest bridge structure in the world," he said, "but still its construction does not present the difficulties many people imagine.

"When one understands the project in all its details, it seems strange that the bridge has not been built before this. It is hard to realize that such progressive people as those who live around San Francisco Bay have been willing for so long to put up with the present ferries, or any ferries, so far as that goes, when they might just as well have a bridge across the bay that would allow of easy and quick communication between the cities, and without any direct expense to themselves.

"In a project of this magnitude there always are many points in which the general public is interested, but the public is particularly interested in this project because there is hardly a person on either side of the bay who would not receive a direct benefit from the bridge.

"However, the people are not so much interested in the engineering features further than to be satisfied that the bridge can be built as they are to know where the bridge is located, what provision is made for automobiles, teams, trains, etc.; where the terminals are going to be; how long before it can be finished, how much it would cost, and most important of all, who is going to pay for it.

Location of Bridge.

"Any bridge across the bay should properly be on the shortest line between the business centers of the two sides of the bay, and that is exactly where the bridge has been located—that is, on the shortest route between the Oakland City Hall in Alameda County, and Third and Market streets, San Francisco.

"The bridge is not planned for this location, however, primarily because it is the shortest route, but because the water is very shallow and the current is very weak at the place indicated. The greatest depth of water is only sixty feet, and the average depth is not half that. This is a very nominal depth for bridge work.

"The location of the bridge is such that it comes into the San Francisco shore beyond the last important pier, so that practically none of the present shipping of the bay would have to pass the bridge. Of course, however, the bridge would be constructed so as to provide for all ships to pass beyond it.

"In studying the various routes, the Goat Island route was quickly found to be impracticable, for the following reasons: A bridge from Goat Island to San Francisco would form an obstruction to the entrance to the harbor; neither the Oakland nor the San Francisco terminals would be at the right points; the Government would not consent to the use of Goat Island, and from an engineering standpoint it would be impossible to build a bridge there because of the great depth of water and the swift currents.

"The Oakland terminal of the bridge now proposed is at First and Adeline streets. The landing point in San Francisco is near Second and Townsend, but it is proposed to run the electric trains to Market street either through a subway or on an elevated, so that the real terminal in San Francisco is at Third and Market streets. The total length of the structure would be about five and a half miles.

"The bridge would have three roadways, one specially designed roadway for high speed automobiles, and two roadways for trucking; it would have four railroad tracks, two for overland trains and two for interurban electric trains. The grades, curves, etc., of the railroad tracks woulr be built for a speed of 45 miles an hour, so that the running time across the bridge, say from Berkeley, would be 13 to 15 minutes, and from the Oakland City Hall 7 to 8 minutes, and the interlocking safety devices will be the same as used in the New York subways, which would allow of a headway of 1½ minutes between trains.

Plan of Bridge.

The bridge would consist of a large number of spans, all alike except near the San Francisco shore, where two very long and very high spans would be provided for the passage of ships. There would be two bascule spans in the bridge, one near the Oakland shore and one near San Francisco. Such a bridge could be completed in four years.

"Much time and study has been put on the estimate of cost. The cost is figured at $22,000,000, although that is a very liberal figure.

"Any bridge across San Francisco Bay should be owned and controlled by the counties. It should be a public highway, and so it is proposed that this bridge should be built pointly by the counties on each side of the bay and a toll collected for the use of it. Because of the immense traffic across the bay which now exists, a very small toll will pay for the bridge in a few years.

"It is proposed to charge 30 cents for each vehicle which crosses the bridge, and to tax the railroads two cents for each passenger which they carry on their trains over the bridge. There would be no increase in the fares for the passengers, as the railroads would be merely paying for the use of the bridge what it now costs them to operate their ferry boats.

"When one stops to realize that there are 140,000 people who cross the bay every day and that more people pass through the San Francisco ferry building each year than through any other terminal in the world, one gets an idea of the tremendous number of people who would use the bridge.

"The income from the tolls, on the basis given above, would be three times the interest charges on the money required to build the bridge. The bridge would pay for itself in about ten years.

"When the people come to know that they can have the largest and finest bridge in the world across the bay, which will allow of quick transportation for vehicles and passengers between these two great business centers, at no direct expense to themselves, it will not be long before they will demand the bridge."

MONO-RAIL CAR ON EXHIBITION.

Inventor Erects Quarter Mile Tract; Jitney No Terror for Me, He Says.

Declaring that he can construct his railroad for $10,000 a mile and that the mono-rail will solve the long-distance city travel problem, Harry W. Brown, the inventor of a new mono-rail electric car system, has shown the faith that is in him by erecting a quarter-mile demonstration road in old Central Park, at Eighth and Market streets. Mr. Brown says:

"I believe that mono-rail tracks, elevated above the edge of the sidewalk, would solve the Market-street transportation problem. The cost is so low that jitneys have no terror for me.

12 Feet Above Ground.

"Originally I designed this sample road to show what can be done in rural transportation. I believe that present-day surface roads, with their cost of right of way and their heavy equipment, are certain to go. Nowhere, according to my plans, will the single rail which carries the car be less than 12 feet above the surrounding country.

"I can build a road to San Jose at a cost that will prevent competition from steam, electric or jitney cars."

Brown has solved the question of bringing the center of gravity of the car below the rail by placing all weight of the car on framework below the rail line.

$33,000 In Models.

Brown has been three years in San Francisco and has spent about $33,000 in constructing models and experimenting in various ways. He came here from Alaska, but his original home was in New York.

"I am going to stay right here until some one builds a road according to this system," he declared. "The great need of California is transportation—cheap transportation—and I can provide it. If the city of San Francisco wishes to put a mono-rail road on Market street I will show the municipal authorities how to build it."

PLAN STREET PAVING.

Auburn Trustees to Call Bond Election for $25,000; Pass Resolution.

AUBURN (Placer Co.)—According to the City Trustees a bond election for $25,000, for the paving of street intersections and terminals from depot to depot in this city, will be called during the present month.

The resolution of intention to call the bond election was passed and an ordinance, calling the election, will be read for the first Friday.

According to the resolution, the paving will be done on Placer Road, Railroad, Broad, Commercial, Main and Nevada stretts and in front of public property.

The paving will be done under the Vrooman Act. Little opposition from property owners is anticipated.

POTASH EXTRACTED FROM WYOMING LAVA.

It has been known for a number of years that a lava in the Leucite Hills, Sweetwater County, Wyo., is composed largely of leucite, a mineral rich in potash. This lava, called wyomingite, is there very abundant, and the total quantity of potash it contains is immense, estimated at 200,000,000 tons. Like the gold in sea water, however, it has not yet been profitably extracted. In a series of experimental studies of the reactions of various salts on wyomingite under certain conditions, Roger C. Wells, of the chemical laboratory of the United States Geological Survey, has obtained interesting results as to the extraction of potash from wyomingite, which are published in the Survey's Professional Paper 98-D. Mr. Well's paper may prove suggestive to chemists who are studying methods of extraction of potash from igneous rocks.

A copy of the report may be obtained free on application to the Director of the United States Geological Survey, Washington, D. C.

SAND FOR GLASS MAKING.

The production of glass sand in the United States increased very materially in 1915, as compared with 1914. The demand for window, plate and wire glass was strong, and there was a considerable export trade in glass bottles, as well as flat glass.

The production in Missouri, Ohio, and Pennsylvania was slightly less than that in 1914. The greatest increase was in Illinois and Indiana. It is notable that Indiana, which produced only 1,842 short tons of glass sand in 1913, made a yield of 36,977 tons in 1914, and in 1915 increased the tonnage nearly 300 per cent over that of the previous year. The total production of these seven States in 1915 was an increase of nearly 250,000 tons over 1914.

In the compilation of these figures the United States Geological Survey co-operated with the Geological Surveys of the States of Illinois, Missouri and New Jersey.

HERE'S A TALL STORY—SEVEN STORIES TALL IN FACT.

Bryant J. O'Connor, a metal worker, fell seven stories to the pavement recently from the scaffold on a San Francisco office building and surprised the horrified spectators by rising and attempting to walk away. He was restrained and taken to an emergency hospital, where an examination showed that no bones were broken and that O'Connor's injuries were confined to minor bruises and scratches.—Modesto Herald.

KEEP STUDENTS WELL, WORK OF UNIVERSITY.

The health of students is better protected at the University of California than when they are at home. That is what mothers and fathers are finding out, says the University. In the year just over forty-five hundred students received treatment or medical advice an average of eight time and 672 others were sick enough to be put to bed—for an avcarge of eight times and 672 others to each student was only six dollars a year. In the ten years since the Infirmary was started, deaths there have averaged only one in two years, though the student body nowadays is over six thousand. That is what preventive medicine has done by keeping small ailments from becoming serious and taking care in time.

The University of California wants to keep its students well. It believes in preventive medicine. So every student pays a fee of six dollars each year and in return is entitled to all the medical and hospital care needed, at no further cost unless an operation is necessary. During 1916-17, just 4,516 students received treatment or medical advice at the Infirmary. This is 71.8 per cent of the 6,286 students who paid the Infirmary fee. Ailments were diagnosed to the number of 12,059, and treatments numbered 35,251. Those vaccinated against swallpox numbered 175, and against typhoid 270. The patients treated in the dispensary averaged 126.3 a day. These figures do not include the Summer Session, though Summer Session students have Infirmary privileges.

Any student found to be really sick was promptly put to bed in the Infirmary—572 during the year 1915-16. So effective, however, is the University's method of "the stitch in time that saves nine" that the average stay was less than five days, even averaging in the 151 students for whom operations were performed.

HARDWOODS — VENEERS

No matter what **kind** of Hardwoods Flooring or Panels you may require, nor what **quantity** of each you may need for **immediate delivery,** you can depend upon WHITE BROTHERS to supply you promptly.

We carry the largest stock of HARDWOODS and WYBRO PANELS in the West.

Ask for our stock lists—free on request.

For over forty-four years we have featured **service** and **promptness** coupled with **fair prices** as our standard. We have the quantity and the variety on hand for immediate delivery.

If you do not deal with us, we both lose.

White Brothers

Fifth & Brannan Sts. **San Francisco**

The daily average of bed patients was 11.8. The total number of diagnoses of bed cases was 941. There were 121 students who were sick in bed in the Infirmary more than once during the year. The largest number of patients in any one day was 24. Of the year's cases, 653 house patients left the Infirmary entirely recovered, 158 relieved, only 21 not relieved, and there was but a single death there during the year.

The Infirmary system was created at the University of California in 1906 by the late Dr. George F. Reinhardt, and is now administered by Professor Robert T. Legge, as Professor of Hygiene. The medical and surgical staff have fixed annual salaries and receive no fees whatever from individual students. The system is one of "group medicine"—that is, one physician does not attempt to treat all the ailments to which human flesh is heir, but the Infirmary staff divide the work according to their various specialties—internal medicine, surgery, eye, ear, nose, and throat; orthopedics, X-ray examinations, etc. This system means that the medical and surgical staff have the golden opportunity of dealing with disease at its very beginning and putting a stop to its ravages before it has taken firm hold.. The students are taught the habit of having recourse in time of illness to the modern type of highly-trained scientific physician.

The physical examination which is a requirement for admission to the University has often brought about the recognition and remedying of conditions of ill health which the student had not himself known to exist. Often, too, it has relieved baseless apprehensions of students who imagined there was something wrong with them when they were really perfectly sound and well.

Not the least of the values of the Infirmary system, says the University, is the valuable opportunity which the student has to get sensible training in personal and public hygiene, through his access to the privileges of the Infirmary through the two lectures a week on hygienne prescribed for every student throughout the first term of enrollment in the University.

CONCRETE SNOWSHEDS TO BE BUILT BY S. P.

Officials of the Southern Pacific railroad announce that because the road yearly has suffered great losses through the burning of snowsheds on the mountain division, a plan is being considered to build the sheds of reinforced concrete at frequent intervals as fire breaks.

Contractors have stated that the sheds could be constructed at a reasonable cost, but as yet no bids have been submitted. Should the first sheds prove feasible, if erected, the entire division will be so constructed.

Lists of merchants' associations, guilds, and firms holding membership in the Hongkong Chinese General Chamber of Commerce, and of the officers of the chamber have been received from Consul General Anderson, at Hongkong. They may be inspected at the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 75982.

INSTALLATION OF THE UNIFORM SYSTEM OF ACCOUNTING FOR COUNTIES.

Statement by John Francis Neylan, Chairman, State Board of Control.

"The Board of Control is directed by law to devise, install and supervise a uniform system of accounting for the counties of the State. This is unquestionably the biggest accounting project ever undertaken in California. The system has been devised, advantage being taken of the wonderful work accomplished by the Commission on Efficiency and Accounting appointed by President Taft, also of the work of the New York and Philadelphia Commissions on Efficiency and Economy, also of the very valuable data accumulated by the Bureau of Municipal Research of New York. With the aid afforded by the reports of these Commissions the Board of Control accounting department made a thorough study of the laws governing country accounting in California and a survey of conditions prevailing in typical counties.

"The new system of accounting was installed in Los Angeles county approximately ten months ago. Los Angeles being the largest county in the State presented the most varied problem. The problem there was doubly difficult because of the system which had previously prevailed, and under which, it could be literally stated, it was impossible to give the tax-payer an intelligent statement of what was becoming of his money. The auditing of accounts was ninety days in arrears, and this was not the fault of the auditor.

"After ten months of operation the County auditor advises us that instead of his accounts being ninety days behind all transactions are being handled within **twenty-four hours**, and it is a simple matter to make up a financial statement of the entire county business.

"The installation of the system in Sacramento and Stanislaus counties will be commenced an Monday morning, June 12th, and the work of installation will rapidly be carried on in Glenn and San Diego counties, which have already been audited, by the Board of Control accounting staff.

"The Board of Control is constantly in receipt of requests from small municipalities and School Districts to audit their accounts and systematize them. This is physically impossible at the present time. The Board of Control accounting staff is composed of twenty-one men: eleven of these are engaged on County auditing and systematizing and ten are engaged in the reguar auditing of the twenty-three State Institutions and sixty State Departments. It is impossibe to divert these men from their present tasks.

"The completion of the systematizing of the counties will mark California as the foremost State in the United States in the matter of bringing all major political subdivisions into an intelligent and business-like scheme of accounting."

IMPERIAL VALLEY PROSPECTS.

LOS ANGELES—With a cotton crop coming on that promises to be worth approximately $7,500,000, butter and dairy products valued at more than $3,000,000, and various other crops indicating a banner yield, Imperial Valley gives every appearance of taking the lead of all California counties in agricultural products this year. An increase over last year of nearly 300 per cent in cotton acreage, coupled with a steady price that means a good profit to the growers, foretells in the minds of the most conservative an assured prosperity in the Nile-land of the Southwest.

GRAND CENTRAL PALACE.

Many important conventions and expositions are booked for the Grand Central Palace, New York City, for the coming season. This is the best appointed and largest exposition building ever erected, containing 150,000 square feet, and occupying the entire block on Lexington Avenue from 46th to 47th Streets, the ground and building being valued at $4,000,000.

The Grand Central Palace is in the center of the amusement, railway terminal and hotel district of New York City, and within trolley distance of seven million five hundred thousand people (or more than the entire population of Canada).

During the year all the important expositions to be held in New York City are booked for the Grand Central Palace, including the "ALLIED BAZAAR," which is the largest fair ever held in this country, and the only exposition not under Government patronage which has received the endorsement of and is participated in by foreign governments.

PUBLIC EMPLOYMENT BUREAUS.

The first quarterly report of the business done by the Public Employment Bureaus of the State of California, located in San Francisco, Oakland, Sacramento and Los Angeles, gives results far in excess of what had been anticipated for the entire year. John P. McLaughlin, Labor Commissioner, states that 11,112 men and women have obtained work through this State agency since they were organized, February 1. It is especially gratifying to observe the large increase of positions filled, each month surpassing its predecessor by about 1,000. During February 1,525 positions were filled, March 2,089, April 3,286, and May 4,212. June will probably pass the 5,000 mark. As the persons receiving this service pay no fees, they saved about $23,000, an amount they would have had to pay for the same service had they applied to private agencies.

The number of employers using the service is also increasing at a gratifying rate, month by month. During the past quarter, 5,946 ecployers, including large corporations and companies, were served. With the comparatively small beginning of 570 employers in February, the number increased to 2,434 in May. In March 1,151 employers patronized the bureaus and 1,791 used the bureaus in April These employers applied for 13,623 employees, of which 5,398 were called for in May and 7,225 in the preceding three months.

Of the 4,212 positions filled during May, the San Francisco offices fur-

nished 1,718, Sacramento 518, Oakland 625 and Los Angeles 1,351. During May 2,434 employers applied for 5,398 employees, 2,452 in San Francisco, 662 in Sacramento, 795 in Oakland and 1,489 in Los Angeles, 2,562 being employes in these cities and 2,836 outside of the cities. It is interesting to note that of the 2,434 employers using the bureaus in May, 1,635 lived in the bureau cities and 799 in other sections of the State.

During the first quarter, 15,786 men and women applied for work at the four State bureaus. Each applicant is carefully examined as to his fitness and this information is placed for future reference on file. The State employs experienced men to select applicants for the various positions open and thus only the most fitted are chosen.

Despite the fact that the bureaus have been in business only four four months, they have far exceeded the private employment agencies in the matter of positions filled with reference to the number of applicants for work. Seventy-five per cent of the applicants have obtained positions, or three out of every four persons. This is a remarkable showing and indicates the high point of efficiency already attained by the State bureaus. As the State charges no fee for services rendered, the bureaus have a larger number of persons to choose from than the private employment agencies, whose chief qualifications for employment is the fee that the applicant may possess. Those applying for employment at the State bureaus are of a fine type. The charity idea does not enter in the State bureaus' business. That the State bureaus have proceeded along the right lines is shown by the fact that employers who have used this State service are satisfied and have become permanent customers.

The State bureaus have had excellent success in filling out-of-town positions. There are many applicants for work on ranches, farms, dairies, fruit canneries and packing houses and also summer resorts. Employers needing employees along these, as well as other lines in the various cities and country districts, should make their wants known to the State bureau nearest to where they are located, and they will find that they will be given efficient service.

ALL-INDIA SANITARY EXHIBITION PLANNED.

MADRAS, INDIA.—An all-India sanitary exhibition is to be held in Madras in the last week of December, 1916, and an invitation to American firms to send exhibits has been extended by the committee in charge. The exhibition is arranged in connection with the eleventh annual conference of the All-India Subassistant Surgeons' Association, which has on its roll subassistant surgeons from all parts of India both in Government employ and in private practice; but is a private association.

Last year's conference was held in the Bombay Presidency, and delegates were present from many Presidencies. The meeting this year is planned on a larger scale, and the proposed sanitary exhibition is a new feature. It is believed that American manufacturers of sanitary supplies, drugs and medicines, surgical instruments, hospital equipment, etc., will find it advantageous to show interest in the matter as the conference takes place on the same grounds on which the annual Christmas fair is held in Madras. This fair last several weeks and is largely attended.

Provisional Conditions of Exhibition.

Provisional conditions of the sanitary exhibition which are announced by the committee are as follows:

The exhibitors should arrange for the transmission of the exhibits to and fro at their own risk.

The ground rent of the place for exhibition will be 1 rupee per square yard (rupee equals $0.32.)

Exhibitors' agents are welcome to look after their exhibits and see to their safety, but all such arrangements will be at their own expense.

In the absence of agents, the exhibition committee will undertake to take delivery of exhibits and return them at the expense of the exhibitors.

If the exhibitors desire to sell the articles sent, the exhibition committee will undertake to sell them at prices fixed by the owners. The committee will deduct 5 per cent of such sale proceeds.

These conditions are subject to alteration by the committee, according to circumstances and without notice to the exhibitors.

A statement from the association, which appears in the correspondence relating to the objects of the exhibition, gives the following facts on the subject:

It is our desire to spread the useful knowledge of sanitation to the masses that require enlightenment on such subjects. It is expected that the conference will be attended by the leading doctors throughout the country and by hosts of others interested in the progress of India. The proposed exhibition is bound to open the eyes of the public to grave sanitary defects and at the same time to afford them the facilities for overcoming such defects. We are soliciting the co-operation of the leading firms throughout India, Great Britain, Japan, America, and other parts of the world.

All communications regarding the exhibition should be address to the Honorary Secretaries, No. 309 Linghi Chetti Street, Madras, E.

ASPHALT INDUSTRY PROSPEROUS.

The asphalt industry as a whole was prosperous in the year 1915, according to a statement just issued by the United States Geological Survey. The natural asphalt, including grahamite, gilsonite, elaterite, and bituminous rock, produced and sold at mines and quarries in the United States in 1915 amounted to 75,751 short tons, valued at $526,490. Though this quantity was 5 per cent less than the output in 1914, the reports of the sales of manufactured asphalt derived from petroleum of domestic origin disclose a gain of 84 per cent over the quantity sold in 1914. The total sales of manufactured asphalt amounted to 664,503 short tons, valued at $4,715,583. In addition to this output, refiners in the United States made and sold 288,318 short tons of asphalt, valued at $3,730,436, that was derived from petroleum imported from Mexico.

The decrease in the output of natural asphalt is confined to bituminous rock and is due largely to the keen competition that this type of asphalt is forced to meet in its chief market—the paving industry—with manufactured substitutes.

Statistics just completed under the supervision of J. D. Northrop, of the Geological Survey, show that of the quantity of manufactured asphalt derived from domestic petroleum in 1915 a total of 447,859 short tons, valued at $2,302, 576, was markcted as road asphalt and flux, and 216,644 short tons, valued at $2,323,007, as residual pitch, used chiefly for paving.

The output of the Mexican product in 1915 may therefore be subdivided into road asphalt and flux—174,854 short tons valued at $1,325,201—and residual pitch—213,464 short tons, valued at $2,405,235.

CHROMIC IRON ORE REPORT.

The annual statement of the Geological Survey on chromic iron ore for 1915 is now available for distribution. During the year chromic iron ore valued at $36,744 was mined, an increase of $28,029 over 1914. The greatly increased demand for domestic chromite, consequent upon conditions abroad, has resulted in largely augmented production of chromite at many places in California. Until lately California has been the only producing State, but within the last few months production has commenced in southwest Oregon, near Grants Pass and Riddle.

THEN AND NOW.

Many centuries ago the glass makers of Italy were knighted and permitted to marry into nobility. The art of glass making at that time was a new and secret process and the worker in glass was regarded as a past master in his profession, an artist and a man superior in his class.

Many years ago in France there was a tax placed upon every opening in a building in which glass was installed, as it was considered an unnecessary luxury, and for this reason many of the homes of the poor in that country today have very few windows in order to avoid this tax which is still extant. How different are the conditions in our country. Instead of taxing us for windows in our homes we are liable to a penalty according to the building code and a board of health for insufficient openings permitting light and air in our buildings.

LIFTING A BRICK STACK TWENTY FEET.

An exceedingly ticklish bit of engineering and construction work was performed by the Barnett & Record Co. of Minneapolis, at the new Cargill elevator under construction at Superior, Wis., to replace the structure destroyed by fire.

When the fire destroyed the old elevator, the power house and the high smoke stack, which are constructed of brick, were left intact. However, the new elevator is so much higher than the old structure that it was necessary to raise the height of the smoke stack 20 feet.

Instead of adding this to the top of the stack, the contractors raised the stack from the bottom for a height of 20 feet and inserted a section of new masonry between the foundation and the bottom of the present stack to bring it up to the required height.

The job was an exceedingly delicate one for if the stack got out of plumb for even a small fraction of an inch it would have fallen and killed every worker employed about it, besides causing a great property loss.

Jacks screwed up bit by bit, were used to raise the stack, heavy timbers being inserted to prop it up as it was raised.

The stack is over 100 feet high and weighs several hundred tons.

INDIA'S FAMOUS ROAD.

It Was the World's Greatest Highway Before Rome Was Born.

Search where you will, you will find no highway in the whole world so romantic as the Grand Trunk road of India.

A stately avenue of three roads in one—the center of hard metal, the roads on each side ankle deep in silvery dust—fringed by double rows of trees, it runs for 1,400 miles through the vast northern plain which skirts the Himalayas, from Calcutta to far Peshawur, which keeps sentinel at the gate of Afghanistan.

From horizon to horizon it stretches like a broad white ribbon, as seemingly straight as if traced by a gigantic ruler. And dotted along its entire length are hundreds of serais (wayside rest houses), each with its arched and turreted gateway, its spacious inclosure, in which humans share shelter with oxen, camels and goats, and its central well of sparkling water.

For 3,000 years the Himalayas have looked down on this road and seen it as they see it today. It was the world's greatest highway before Rome was cradled, when the aboriginal Indians drove their cattle over the very spot where the motorcar dashes today.

Alexander the Great led his Greeks along it to the conquest of northern India, and Buddah himself took his daily walks along it centuries before Christ was cradled.

It has seen a hundred generations come and go, a score of dynasties rise and fall. And yet today it is to the eye exactly the same as in the long gone years when Nineveh was a proud city. —New York Journal.

SHIPMENTS OF PORTLAND CEMENT INCREASE.

Final figures on the Portland cement industry in 1915, gather by the United States Geological Survey, confirm the estimate made on January 1, that there was a slight increase in shipments and a slight decrease in production. The shipment of Portland cement in 1915 were 86,,891,681 barrels, valued at $74,756,674 in bulk at the mills; the shipments in 1914 were 86,-437,956 barrels, valued at $80,118,475. The finished cement made in 1915 amounted to 85,914,907 barrels, which, compared with the 88,230,170 barrels made in 1914, shows a decrease of more than 2½ per cent.

The average factory price per barrel was 86 cents in 1915, compared with 92.7 cents in 1914, a decrease of 6.7 cents, or 7.2 per cent, in average price. According to the Survey's statement, prepared by E. F. Burchard, some of the commercial districts made a larger and some a smaller output than in 1914. Slight increases (less than 10 per cent) in output were reported from the Lehigh district and from most of the central districts; decreases were the rule in New York, Indiana, Illinois, and in the Rocky Mountain and Pacific Coast States. Increases of more than 10 per cent were made in the southeastern States, the largest increase, 20.3 per cent, having been made in the Tennessee-Alabama-Georgia district.

For those who desire the detailed statistics of the Portland cement industry by districts a tabular summary has been prepared, which may be obtained by application to the Director, U. S. Geological Survey, Washington, D. C.

The shipments of natural cement in 1915 were 750,863 barrels, valued at $358,627, a decrease in quantity of 422 barrels and an increase in value of $7,-257, compared with 1914. The average factory price per barrel reported for 1915 was 47.8 cents; the average in 1914 was 46.8 cents. The output in 1915 came from 12 plants, 4 in New York, 2 each in Ohio and Minnesota, and 1 each in Pennsylvania, Illinois, Indiana, and Kansas.

The shipments of puzzolan cement in 1915 were 42,678 barrels, valued at $39,801, a decrease in quantity of 25,-633 barrels and in value of $23,557 compared with the shipments of 1914, both decreases being proportionately rather large. The average factory price per barrel reported for 1915 was 93.3 cents, compared with 92.6 cents in 1914. The output in 1915 came from 3 plants, 1 each in Alabama, Ohio, and Pennsylvania.

FAMOUS BRIDGES.

The Highest, Largest and Most Ornate Structures of their Kind.

The biggest bridge in the world is the Forth bridge. The British navy can pass under it, and its biggest dreadnaught looks like a pygmy in comparison.

The highest bridge in the world is the wonderful single span which crosses the gorge discovered by Livingstone, into which the mighty Zambezi leaps in a fall only matched by Niagara. This light, airy looking structure is 400 feet above the river bed, so that the dome of St. Paul's could comfortably stand beneath it.

The longest single span in the world is the span of Brooklyn bridge. It is a suspension bridge, and its supporting towers are 1,600 feet apart. Imagine the strength of the cables capable of supporting such a terrific dead weight, to which add the surging traffic of two vast cities.

The two longest bridges in the world are the Tay bridge in Scotland and the great bridge which carries the railway across the St. Lawrence to Montreal.

The mose ornate bridge in the world is the Tower bridge across the Thames. In fact, it is perhaps the most beautiful bridge in existence. It is unique, too, in that it is both a girder bridge and a suspension bridge and is also like the ancient drawbridges of romance.

Its cost was £1,500,000, which is just about half the amount the Forth bridge cost.

THE LUMBER SITUATION.

A. B. Johnson, representing the Lumber Yards and Lumber Schooners, reports that the strike situation is unchanged and that not a stick of timber is being moved.

It is reported that the Building Trades Council has pledged its moral and financial support to the striking longshoremen and requested that its affiliated unions do likewise.

Henry M. White federal mediator, has left Seattle for this city. A conference between the strikers and the employers is supposed to be held here today. White was successful in arranging a temporary cessation of the strike so far as the piers of the Seattle Port Commission are concerned.

The disposition of a great many building contractors is to tie up their jobs and patiently wait the outcome.

GYPSUM INDUSTRY ACTIVE IN 1915.

The quantity of gypsum quarried in the United States in 1915 was 2,447,611 short tons, valued at $6,596,893, about 1 per cent less in quantity than that in 1914, and a decrease in value of about 4 per cent. New York led in the quantity mined, with 540,914 short tons, valued at $1,267,706; Iowa was next, with 495,860 short tons, valued at $1,-278,128; Michigan third, with 389,791 short tons, valued at $686,309; and Ohio fourth, with 259,036 short tons, valued at $772,520. Other producing States were Alaska, Arizona, Colorado, Montana, Nevada, New Mexico, Oregon, South Dakota, California, Kansas, Oklahoma, Texas, Utah, Virginia, and Wyoming. In the canvass by the U. S. Geological Survey for the gypsum statistics in 1915 the State Geological Surveys of Illinois, Iowa, Michigan, Minnesota, Oregon, Virginia, Washington, and Wisconsin co-operated with the Federal Survey.

The average price of raw and of calcined gypsum throughout the country decreased 9 cents a ton in 1915 from that of 1914. There were 77 active mines or quarries and 69 plants.

THE EGYPTIAN SAW.

The saw appears to be the earliest tool that has been traced in Egyptian history. It was found first in the form of a notched bronze knife in the third dynasty, or about 5,000 years before the Christian era, and was followed in the fourth and fifth dynasties by larger toothed saws, which were used by carpenters, but there are no dated specimens until the seventh century before the Christian era, when the Assyrians used iron saws. The first knives on record were made out of flint and were, in fact, saws with minute teeth.

Benicia Investment Company is permitted by the State Corporation Department to sell 500 shares at par, $10 per share, net to the company, the proceeds to be used for the construction of a club building.

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LUMBER INDUSTRY.

WASHINGTON, D. C.—Pleading for governmental assistance in placing the lumber industry, the second in importance in the nation, in a state of industrial preparedness, and of achieving that high plane of efficient operation for which every American industry is striving, L. C. Boyle of Kansas City, has filed with the federal trade commission the first volume of his brief in the first important general investigation by this commission.

This commission has spent months studying the problems of the industry, with long hearings in various parts of the country, and now the briefs are being prepared. The brief filed, in part, is a volume of nearly 150 pages, but some of the striking sentences which it contains in its analysis of the situation are:

"European nations early recognized the need of adopting methods to avoid forest waste. With us, on the contrary, our splendid forest wealth has been needlessly squandered. Through error and lack of grasp, a greater proportion of our forest area than was necessary for the country's developing need passed from public to private ownership. This fault can not be answered or cured by placing the blame at the door of speculative greed. While we were evolving our political and industrial destiny, the majestic forest wealth of the nation remained unprotected and uncared for. This great national asset seemed limitless. The time has come when the dictates of prudence and a better understanding of national need impel a survey to be made of our remaining tree supply, to the end that a more rational national policy be worked out. Although we speak for the industry, it is our hope that the commission will feel and believe that our effort is in accordance with public interest.

"That lumber manufacture is in sore need of the steadying influence of stability is made manifest by the record presented. That its lack of this quality touches public interest we hope to prove. Courage and understanding are needed if we are to solve the problem presented. If the commission rises equal to its opportunity, a forward step will have been taken in the president's program of industrial preparedness. The survey made and the constructive results hoped for is a new test of the capacity of our institutions to respond to the urgency of greater efficiency in our industrial life."

Mr. Boyle then declares that the lumber industry has no hostility toward the Sherman anti-trust law, but does believe that its interpretation should be such that such great industries as the lumber business may be permitted to progress with the co-operation of the units in the industry, as long as such co-operation does not constitute restraint of trade. Co-operation under government regulation to prevent abuses of destructive competition was asked, and he then analyzed the situation in the country, to show the need of active co-operation, for the protection of the nation's forests against destruction by unregulated competition.

After analyzing the conditions, showing the need for reforms, Mr. Boyle completes his volume of presentation of conditions with this statement:

"The industry can and should do much within itself to overcome its difficulties. The insistent need, however, is the earnest and helpful co-operation of government. We ask no favor. There is a public as well as a private interest at stake. Of this there is no question. Why should not the two parties in interest, following the dictates of common prudence, get together and solve the problem? There is no other way. Legitimate competitive conditions must be maintained if we consistently adhere to our ideals of national development. Destructive competition, however, must cease if these ideals are to be realized."

BRIDGE ACROSS THE BAY PLANS TAKING SHAPE.

That the War Department will hold a public hearing in San Francisco in the near future regarding tht plans for the bridge across San Francisco Bay, was the word received recently by the San Francisco Chamber of Commerce in a telegram from O. E. Hotle, chairman of the executive committee of the San Francisco-Oakland bridge committee.

Hotle went to Washington recently to present the matter to the War Department and in his telegram he states that a hearing was held before General Black, Col Keller and Col. Taylor of the War Department, at which the bridge situation was fully reviewed. The plans for the bridge, which had previously been forwarded to the department, had already been carefully gone over by its engineers. Wilbur J. Watson and Wm. Russell Davis of the Associated Bridge Engineers, who prepared the plans for the bridge, were present with Mr. Hotle at the hearing and explained in detail the plans.

RAILROAD CONTRACTS FOR SACRAMENTO WORK.

SACRAMENTO—Contracts for the two new steel bridges recently authorized by the Federal Court for the Northern Electric Co. have been let to the Missouri Valley Bridge & Iron Co. of Kansas City, which will begin work as soon as the steel can be delivered and other material placed on the ground.

The steel for the American river bridge originally was designed for a structure across the Kaw river at Kansas City. It has been purchased at a cost of $125,000. The Feather river bridge at Oroville will cost in the neighborhood of $55,000.

GOVERNORS' CONFERENCE.

SALT LAKE CITY, June 10.—America in the world markets is to be the general subject considered by the ninth annual session of the Governors' Conference which is to open here Tuesday, June 27, according to the program announced today by Secretary Miles C. Riley. Among the subjects and speakers announced are: "A Land Settlement Policy," by Gov. H. W. Johnson of California; "What the South Should do to Meet the New Conditions Following the Close of the World-War" by Gov. Charles Henderson of Alabama; "The Great Lakes to the Gulf Waterway" by Gov. E. F. Dunn of Illinois. Other addresses on different phases of the same general subject are to be delivered by Governors Ernest Lister of Washingaon, George A. Carlson of Colorado, James Withycombe of Oregon and George W. P. Hunt of Arizona. Though definite announcement is not made, it is expected that Gov. Charles R. Whitman of New York and Gov. Samuel W. McCall of Massachusetts will be on the program. Gov. Rolland H. Spaulding of New Hampshire is to respond to the address of welcome by Gov. William Spry, who as chief executive of Utah will act as host to the visitors. Governors of most of the forty-eight states are expected to attend.

"Many of the governors are very much awake to the necessity for the states and the federal government giving legislative aid and encouragement to the work of preparing for the keener competition and less wasteful methods which are to play so important a part in world commerce immediately following the close of the great war,' said Secretary Riley. "Many of them have been watching the rapid, but nonetheless effective and probably permanent, changes that have taken place in European business methods. They are convinced that America must meet these changes by looking well to some of the fundamental principles underlying the development of resources and business methods of the country, and they feel that in many instances first aid should come from the state governments."

SITES FOR STATE INSTITUTIONS SOUGHT.

AUBURN (Placer Co.)—The Auburn Chamber of Commerce is in receipt of a communication from the Board of Directors of the Deaf and Blind Institute of Berkeley asking for suggestions as to two sites, one for the blind institute and one for the deaf Institute which, according to an Act passed by the last Legislature, must be separated.

Several valuable sites will be recommended by the Chamber.

SANTA FE PLAN EXTENSION.

PORTERVILLE, Cal.—Santa Fe engineers are busy making the preliminary surveys for the proposed extension from Lindsay into Porterville. It is understood that the Santa Fe plans to have its lines into Porterville by the winter. It is said that the Western Pacific railroad is also running preliminary lines for a branch into Porterville.

SURVEY COMPLETED.

REDDING (Shasta Co.)—The State Highway Engineers have completed the survey of that portion of the Redding-Alturas lateral extending over Manzanita Hill in the neighborhood of Montgomery Creek, where it is presumed the first convict road camp will be established.

The surveyors have been transferred to Susanville to complete the survey on the Red Bluff-Susanville lateral.

FAST ELECTRIC TRAINS TO Sacramento

LEAVE KEY ROUTE FERRY.

Leave	Daily except as noted.
7:20A	Sacramento, Dixon Jct., Pittsburg, Bay Point. Carries Observation Car. Through train to Chico, Marysville, Colusa Oroville and Woodland.
8:00A	Concord, Diablo and Way Stations.
9:00A	Sacramento, Bay Point, Pittsburg, Dixon, Chico, Woodland. Carries Parlor Observation Car.
9:40A	Pinehurst, Concord, Sundays and Holidays.
11:20A	Sacramento, Pittsburg, Bay Point, Colusa, Chico.
1:00P	Sacramento, Pittsburg, Bay Point, Colusa, Chico, Woodland
3:00P	Sacramento, Dixon, Pittsburg, Bay Point, Elverta, Woodland.
4:00P	Concord and Way Stations.
4:40P	Sacramento, Pittsburg, Dixon Jct., Marysville, Colusa, Oroville and Chico. Observation Car.
5:15P	Pittsburg, Concord, Danville and Way Stations, except Sundays and Holidays.
8:00P	Sacramento, Pittsburg, Dixon, Woodland and Way Stations.

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Key Route Ferry. Phone Sutter 2339. Red Line Trans. Co., S. F.; People's Express Co., Oakland.

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Hunter, R. J., expert cabinet maker, 2156 Telegraph Ave.; dealer in mahogany, antique and all kinds of furniture; repairs and polishing; Telephone Oakland 3735.

KANE SPRINGS POTASH STRIKE.

RANDSBURG—A large deposit of potash is reported to be located near Kane Springs. Numerous Bakersfield and Randsburg citizens have staked claims.

CITY ENGINEER OF VISALIA RESIGNS.

VISALIA, Cal.—City Engineer L. E. McCabe of Visalia has handed in his resignation to take effect immediately and will leave shortly for Los Angeles where he has accepted a position with a large concern.

FOREST RANGERS DESTROY INSECT-INFESTED TREES.

More than a thousand trees have been cut down and burned during the past three months by the Forest Service on the Lassen National Forest in an effort to stamp out a plague of timber-destroying beetles, according to a report given out by the District Forester recently. This campaign, which was made by a crew of thirty Forest rangers and mountaineers, cost several thousand dollars, and was carried on over hundreds of acres of pine forest in the Susan River region near Susanville.

The pine beetle, known to the scientists as the **dendroctonus**, migrates in swarms from dying to living pine trees, and constructs great galleries between the outer and inner bark for its larvae, which seem to live and thrive in the pitch. The beetle-infested tree dies almost as quickly as if girdled by a lumberman's ax, and, since the insects usually bore deep into the sapwood, a tree thus killed is seldom fit for lumbering purposes.

Serious raids of these timber-destroying beetles occur frequently in the valuable sugar and yellow pine forests of California. These raids appear to depend somewhat upon local climatic conditions, and only prompt action on the part of timber owners and the Government prevents immense losses, such as occurred in the Black Hills some years ago when more than 3000 acres of timber were destroyed.

So prolific is the **dendroctonus**, that other insects and birds which feed upon it fail to keep it under control, and the only way to combat its ravages, declare the experts, is to cut down and burn the infested trees. Second to fire, it is said to be the greatest natural enemy of California's forests.

Railroads Propose and Brotherhoods Reject Settlement of Wage Issue by Interstate Commerce Commission.

Settlement of the railway wage controversy either by arbitration, or preferably by submission to Interstate Commerce Commission, was proposed by the Railways on June 15 at the conclusion of their conference in New York with officers of the Brotherhoods of Train Employees, who are demanding an eight-hour basic day and time and one-half for overtime.

The Brotherhood leaders declined both proposals and announced their intention of taking a strike vote.

The Brotherhood leaders on the preceding day had precipitated a break in the negotiations, which had continued two weeks without any approach to agreement, by refusing to consider any modification of their demands in accordance with the principles proposed by the Railways, chief of which is that no "double compensation be paid for same time or service."

Such double compensation is provided for in many instances in present wage contracts by special allowances under which employees frequently receive as much as two days' pay for one day's work.

The Brotherhood have made it part of their demand that the men shall have the right to retain any of their present privileges which they consider more favorable to themselves than the terms of their demands, and which the Railways say would aggravate the effect of the higher basis.

Elisha Lee, Chairman of the Railway Conference Committee, in announcing its decision to decline the demands, pointed out that the present rates and rules are largely the result of recent arbitration awards, that in the judgment of the Committee they provide liberal compensation and favorable working conditions and that the best obtainable estimate indicates that to accept the proposals would increase the cost of railway operation by approximately $100,000,000 a year, all of which must eventually be borne by the public.

"Your proposals," the railroad statement said, "are so inherently and fundamentally opposed to the views of this committee that we feel constrained to decline and do hereby decline them. Our conferences have demonstrated that we cannot harmonize our differences of opinion and that eventually the matters in controversy must be passed upon by other and disinterested agencies. Therefore, we propose that your proposal and the proposition of the Railways be disposed of by one or the other of the following methods, preferably by submission to the Interstate Commerce Commission, the only tribunal which by reason of its accumulated information bearing on railway conditions and its control of revenue of the railways, is in position to consider and protect the rights and equities of all interests affected, and to provide the additional revenue necessary to meet the added cost of operation in case your proposals are found by the Commission to be just and reasonable, or, in the event that the Interstate Commerce Commission cannot under existing laws act in the premises, that we jointly request Congress to take such action as may be necessary to enable the Commission to consider and promptly dispose of the questions involved or by arbitration in accordance with the provisions of the Federal law."

BUILDING OPERATIONS IN CHINA.

Developing Big Departments Stores.

The expansion of the department store business at Hongkong has been followed by similar plans at Shanghai. The North China Daily News reports that the latter city is to have an establishment on the scale of the mammoth Sincere Co. store at Hongkong and that it will be under the control of the same company.

The new building will be larger than the Hongkong structure, and in addi-

ion to the store the Sincere Co. also intends to erect a hotel as an annex. The shop, which will be composed of reinforced concrete, will have a frontage of 100 by 150 feet, and will be a four-story structure, divided into many rooms and departments. There will also be a roof garden, with plants, etc., where afternoon tea will be provided. Two lifts are also to be erected in the building for the convenience of customers.

The hotel, adjoining the store, will be a five-story building, also of reinforced concrete, provided with two lifts. The total cost of both buildings will be $300,000.

It is expected that the store and hotel will be completed and ready for business—both European and Chinese—about the beginning of 1917. The company has been formed in Hongkong with a paid-up capital of $1,500,000.

Building Contract Signed for Peking Hospital.

The Peking Gazette announces that the contract for the building of the Central Hospital in Peking has been signed, marking the second stage of this philanthropic project. The inaugural meeting was held last December when subscriptions amounting to nearly $200,000 were promised to provide the capital of China with a modern well-equipped institution where both rich and poor may receive the best medical treatment. The grounds cover an area of nearly six English acres. The plans have been drawn by an American firm of architects. The building will be of three stories with a basement. There will be accommodations for 50 first and second class patients and 100 third-class patients. Every modern hospital contrivance will be installed.

Electrical Equipment and Boilers from United States.

Two American companies are mentioned in connection with the announcement in the North China Daily News that Messrs. Anderson Meyer & Co. (Ltd.) have received an order to supply a complete lighting plant for Urga, the capital of Outer Mongolia. The engines are to be delivered by the British firm, Messrs. Reader & Co., while the boilers are to be supplied by Messrs. Babcock & Wilcox, of the United States, and the electric equipment by the General Electric Co., of the United States.

OFFICE FIXTURES AND FURNITURE IN THE PHILIPPINES.

Several inquiries have been received concerning the Manila market for office fixtures, furniture, and cases. These supplies are now furnished principally by local manufacturers, who make their products out of the local fine woods. At different times in the past, office and store fixtures and furnishings have been imported and sold here, but they have not sold as well as was expected.

The imported article has the advantage over that of domestic manufacture, usually, in that the wood employed has been more thoroughly dried and the workmanship is finer. The local product heretofore has been largely hand-made by Chinese carpenters. In later years several establishments with modern machinery have been opened, and a better class of work has been turned out to compete with the imported article.

[A list of firms prepared to handle such articles in the Philippines may be obtained from the Bureau of Foreign and Domestic Commerce, Customhouse, San Francisco. Refer to file No. 934.]

AN ANCIENT CHURCH.

It Has Been in Use in France For Over a Thousand Years.

Albert Bigelow Paine in Harpers's Magazine writes:

Before dinner we walked for a little in the gray evening and came to an old church—one of the oldest in France, it is said, built in the ninth century and called St. Michael's. (At Nantua, in the French Juras.) It is more than a thousand years old and looks it. It has not been much rebuilt, I think, for invasion and revolution appear seldom to have surmounted the naturad ramparts of Nantua, and only the storm beat and the erosion of the centuries have written the story of decay. The hand of restoration has troubled it little.

We slipped in through the gathering dusk and tiptoed about, for there were a few lights flickering before the altar, and we saw the outlines of bowed heads. Presently a priest was silhouetted against the altar lights as he crossed and passed out by a side door. He was one of a long line that stretched back through more than half of the Christian era and through most of the history of France.

When the first priest passed in front of that altar France was still under the Carlovingian dynasty—under Charles the Fat, perhaps, and William of Normandy was not to conquer England until 200 years later. Then nearly 400 years more would creep by—dim, mediaeval years—before Joan of Arc should unfurl her banner of victory and martyrdom.

You see how far back into the mists we are stepping here. And all those evenings the altar lights have been lit and the ministration of priests has not failed.

LUMBER CUT IN ARNPRIOR DISTRICT.

Consular Agent William B. Murphy, at Arnprior, Canada, reports that the lumber cut in that district during 1915 amounted to about 108,000,000 feet, and that 27,000,000 pieces of lath and 17,250,000 pieces of pickets were produced.

SAN DIEGO SOLVES SPARROW PROBLEM.

Sparrow Destroyer Appointed.

The city of San Diego has recently taken steps to rid itself of the European house sparrow, better known as "English" sparrow. On April 5, 1916, the city council passed an ordinance appropriating $125 for the purpose of providing ways and means for the extermination of English sparrows in the city of San Diego.

The job of destroying the sparrows inside the city limits was given to one man. During the first month he handed over to the police department 323 dead sparrows, a large number considering the scarcity of the bird in San Diego. For those he received five cents apiece. Later when the sparrows became more difficult to obtain he was awarded ten cents apiece. From last reports the sparrows are well under control.

Other cities in the State may well follow the example set by San Diego. Even in cities where sparrows are far more numerous the appropriation of a small sum of money and the appointment of an energetic and ingenious man to carry on the work of destruction will lead to a near solution of the sparrow problem. A city that can advertise itself with the slogan "No house sparrows here" adds to its reputation; for this bird, like the rat among mammals, is cunning, destructive, and filthy.

VENEZUELA.

Public Works Completed and Under Consideration.

LA GUAIRA, VENEZUELA.—The report of the Ministry of Public Works to the National Congress reports that the following public works under consideration are highways from Puerto Cabello to San Felipe; from Cagua to Morrocoyes; from Caracas to Charallave, San Casimiro, and Zuata; the Gallineros branch of the Central highway of Tachira; the highway from Cumarebo to La Vela de Coro; the Central highways of Trujillo and Merida; that from Cumana to Cumanacoa, and one from a point on the Orinoco to the interior of Guayana. Other projects under consideration are: The bringing of sea water into the salt beds of Araya so that they can be exploited; a railway of other means of transportation to devolop the coal deposits of the State of Zulia; port works at Ocumare de la Costa; an aqueduct for San Cristobal; and exploitation for subterranean waters in the State of Falcon.

The Ministry reports that more money was spent on roads and highways in 1915 than in any previous year.

CITY IS LIKELY TO GET NEW MARINE HOSPITAL.

WASHINGTON—A new half-million-dollar marine hospital for San Francisco is a strong probability at this session. The House Public Buildings and Grounds Committee have favorably reported Representative Kahn's bill appropriating $500,000 for the new hospital.

LARGEST HYDRAULIC LIFT LOCK.

The largest hydraulic lift lock in the world is at Petersborough, Canada. It consists of two great steel boxes or pontoons, moving up and down between guiding towers. When a boat moves into one of the two pontoons the lock gates are closed behind it, and water is pumped into the other pontoon until it becomes heavier than that containing the boat, which then, being overweighted, rises bodily into the air until it reaches the level of the upper canal. The boats are lifted a total distance of sixty-five feet, the gates and capstans being operated entirely by hydraulic power. The time of lockage for boats is about twelve minutes, the actual time of the vertical life being one and one-half minutes.